

# **Culver 5-17 Tank Battery**

SWNE Sec. 17-T1N-R69W

Facility ID: 470301

Remediation Project #: 22770

Fourth Quarter 2022 Quarterly Report

October & November 2022

Prepared by Tasman, Inc.



On behalf of Extraction Oil and Gas, Inc.



March 15, 2023

Jacob Evans, REM  
Environmental Compliance Advisor  
Civitas Resources

**Re: Culver 5-17 Tank Battery  
Excavation Summary Report  
SWNE, Section 17, Township 1 N, Range 69 W  
Boulder County, Colorado**

Mr. Evans:

On April 20, 2022, Civitas Resources (Civitas) reported a historical release of produced water to the Colorado Oil & Gas Conservation Commission (COGCC) via Form 19-Initial/Supplemental Document No. 403022033. The release was discovered during the removal of a partially buried produced water vessel at the Culver 5-17 Tank Battery (Location ID 470301), located in the southwest quarter of the northeast quarter of Section 17, Township 1 North, Range 69 West (Site) [Figure 1]. This report describes impacted soil removal activities and the results of soil and groundwater sampling activities.

Initial assessment activities were completed in April 2022 by a 3<sup>rd</sup>-party consultant. Details of activities completed by the 3<sup>rd</sup>-party consultant are not provided in this report. Soil boring assessment and monitoring well installation activities were completed by Tasman on September 9, 2023. Details of these activities are included in Form 27-Supplemental Document No. 403283022, submitted to the COGCC on January 9, 2023.

### **Excavation Confirmation Sampling**

From October 28, 2022, through November 10, 2022, excavation activities were conducted at the Site to remove impacted soil in the vicinity of the former produced water vessel. Tasman collected 52 confirmation soil samples from the sidewalls and base of the excavation area at depths ranging from approximately 7 feet to 14 feet below ground surface (bgs) (Table 1A). The final excavation extent measured approximately 115 feet southeast to northeast by 80 feet northwest to southwest by 10 feet to 14 feet deep (Figure 2). Groundwater was encountered within the excavation at approximately 10 feet bgs. In total, approximately 2,290 cubic yards of impacted soil were excavated and transported to the Front Range Landfill in Erie, Colorado for disposal.

Confirmation soil samples were submitted to Summit Scientific Laboratory (Summit) in Golden, Colorado, for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), naphthalene, 1,2,4-trimethylbenzene (1,2,4-TMB), 1,3,5-trimethylbenzene (1,3,5-TMB), total petroleum hydrocarbons (TPH), polycyclic aromatic hydrocarbons (PAHs), lead, and pH, per approved Form 27-Supplemental Document No. 403102771. A grab groundwater sample (GW01) was collected from the excavation at approximately 10 feet bgs, and submitted to Summit for analysis of BTEX, naphthalene, 1,2,4-TMB, 1,3,5-TMB, and inorganic parameters (chloride, sulfate, and total dissolved solids [TDS]). Following sample collection, the excavation was backfilled and regraded to match pre-existing conditions.

## **Excavation Analytical Results**

Analytical results indicate that multiple soil samples collected from the base of the excavation were above applicable Table 915-1 standards for naphthalene, 1,2,4-TMB, benzo(a)anthracene, fluorene, 1-methylnaphthalene (1-M), 2-methylnaphthalene (2-M), TPH, lead, and pH. Due to the rapid infiltration of groundwater, impacted soils below the groundwater table were unable to be removed and were therefore left in place.

Sidewall soil sample analytical results indicate that hydrocarbon impacts were horizontally delineated to below Table 915-1 Protection of Groundwater Soil Screening Level Concentrations. However, sidewall soil samples containing pH values above the Soil Suitability for Reclamation parameters remain in place at depths ranging from approximately 8.5 feet to 10 feet bgs.

One groundwater sample was collected from the excavation at approximately 10 feet bgs and submitted to Summit for analysis of BTEX, naphthalene, 1,2,4-TMB, 1,3,5-TMB, chloride, sulfate, and TDS. Groundwater analytical results indicate that organic constituent concentrations were below the laboratory detection limits (non-detect) in groundwater sample GW01.

Soil analytical results are provided in Tables 2A through 5A and illustrated on Figures 3A and 3B. Groundwater analytical results are presented in Table 6 and illustrated on Figure 4. Laboratory analytical results are provided as Attachment A, and excavation field notes and a photo log are included as Attachment B.

## **Conclusions and Recommendations**

Due to the rapid infiltration of groundwater into the excavation, impacted soils below the groundwater table were unable to be removed and were therefore left in place below approximately 10 feet bgs. Soils containing pH exceedances also remain in place along the sidewalls of the excavation at depths of approximately 8.5 feet to 10 feet bgs. Impacts left in place within the saturated zone will be vertically delineated during monitoring well installation activities, and addressed via active remedial techniques until groundwater concentrations are below COGCC Table 915-1 standards. Soil sample locations above COGCC Table 915-1 standards that were left in place are illustrated on Figure 3C and presented in Tables 1B through 5B.

During excavation activities, monitoring wells BH02 and BH03 were destroyed and will be replaced. Additional groundwater monitoring wells are scheduled to be installed during the first quarter 2023 to delineate the nature and extent of dissolved-phase impacts, and to vertically define impacts left in place below the water table at the base of the excavation. During monitoring well installation activities, background soil samples may be collected at depths corresponding to lead and pH exceedances that were left in place.

Due to impacted soil left in place, Tasman recommends a revised groundwater sampling and analysis plan (SAP) to include BTEX, naphthalene, 1,2,4-TMB, 1,3,5-TMB, inorganic parameters (chloride, sulfate, and TDS), benzo(a)anthracene, fluorene, 1-M, and 2-M. Additional background sampling is recommended to compare background concentrations to the lead exceedance left in place at the base of the excavation at approximately 10 feet bgs. Pending background analytical results, dissolved lead may be added to the groundwater SAP.

Following your review, feel free to contact me at 610-405-9078 if you have any questions.

Sincerely,



Sam Vogt  
Program Manager

Figures:

- Figure 1 – Site Location Map
- Figure 2 – Site Overview Map
- Figure 3A – Excavation Soil Sample Exceedance Map – Organics (10/27/2022 – 11/10/2022)
- Figure 3B – Excavation Soil Sample Exceedance Map – Inorganics (10/27/2022 – 11/10/2022)
- Figure 4 – Excavation Groundwater Sample Analytical Map (11/09/2022)

Tables:

- Table 1A – Soil Sample Locations
- Table 2A – Soil Analytical Data – VOCs
- Table 3A - Soil Analytical Data – PAHs
- Table 4A - Soil Analytical Data – Metals
- Table 5A - Soil Analytical Data – Soil Reclamation
- Table 6A – Groundwater Analytical Data
- Table 7A – Groundwater Elevation Data

Tables – Soil Samples Left In Place:

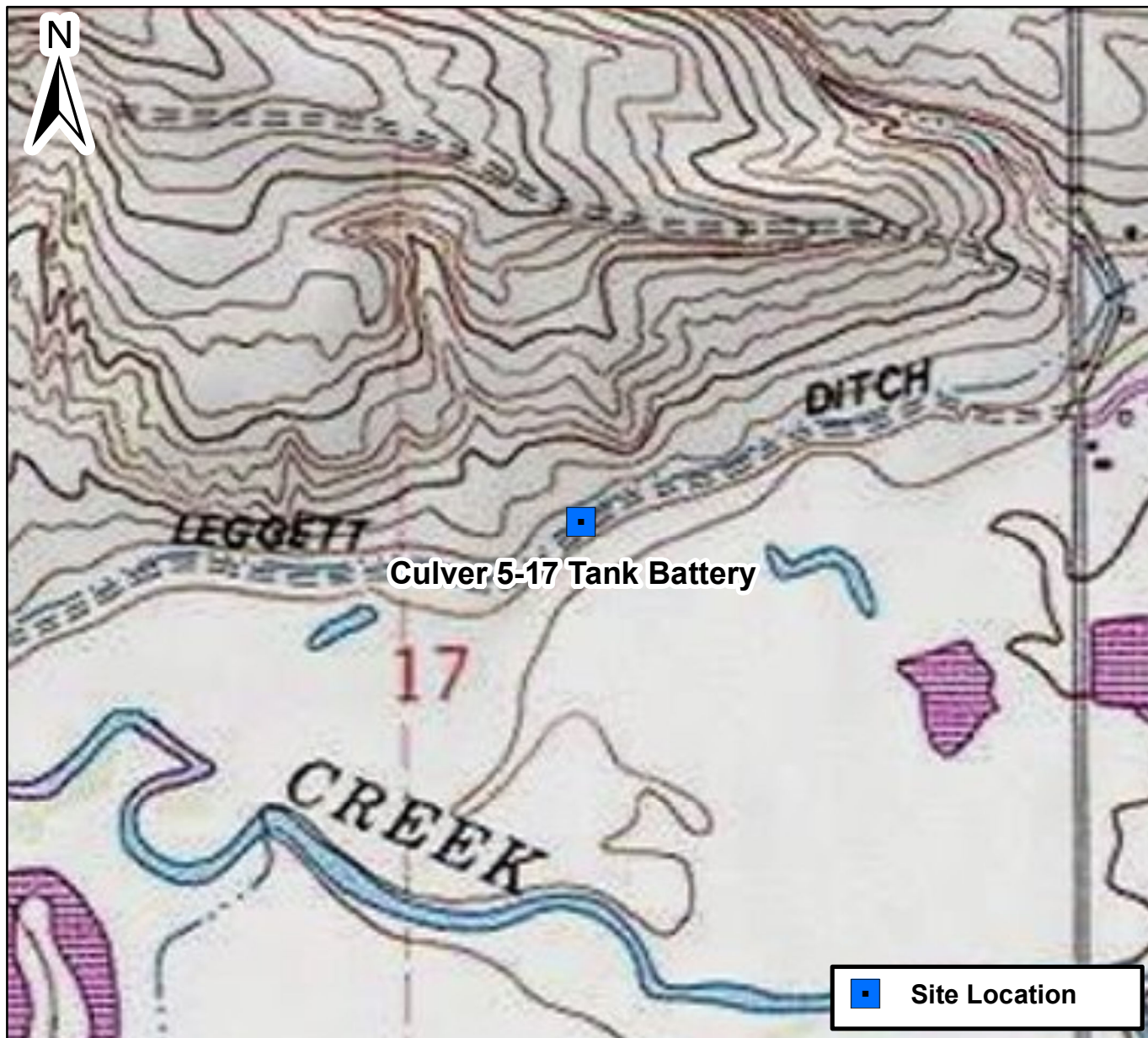
- Table 1B – Soil Sample Locations Left In Place
- Table 2B – Soil Analytical Data – VOCs Left In Place
- Table 3B - Soil Analytical Data – PAHs Left In Place
- Table 4B - Soil Analytical Data – Metals Left In Place
- Table 5B - Soil Analytical Data – Soil Reclamation Left In Place

Attachments:

- Attachment A – Laboratory Analytical Reports
- Attachment B – Field Notes and Photo Log



## FIGURES



0 1,000 2,000 Feet

## Figure 1

Site Location Map  
Culver 5-17 Tank Battery  
SWNE Sec. 17-T1N-R69W  
Boulder County, Colorado







**Legend**

- [Dashed line] Final excavation extent – 11/10/2022
- [Blue diamond] Monitoring well location (Collected via Trimble GPS)
- [Grey diamond] Destroyed monitoring well location (Collected via Trimble GPS)

**Notes**

All locations are approximate unless otherwise noted.

Infrastructure has been removed and is included for reference purposes only.

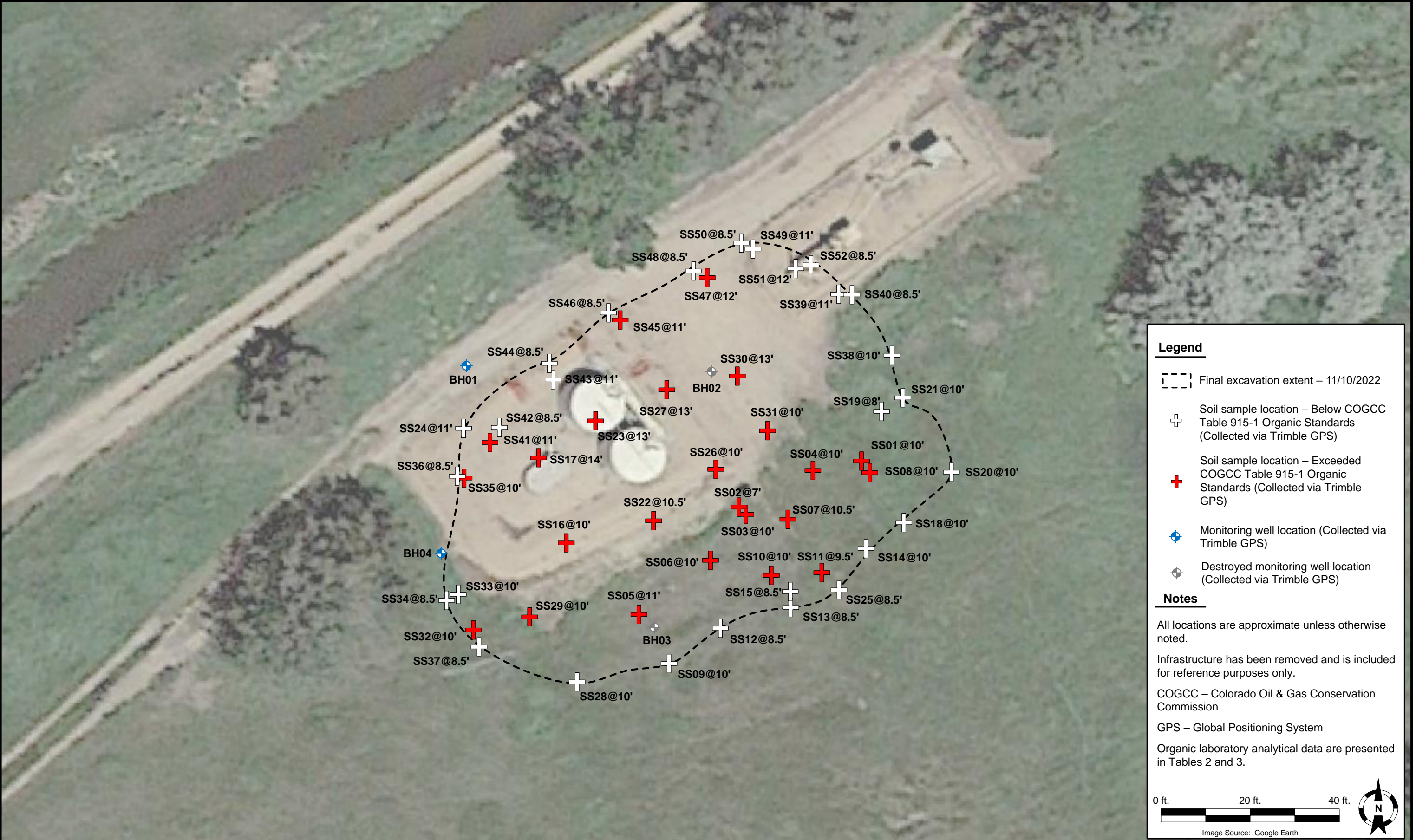
GPS – Global Positioning System

0 ft. 20 ft. 40 ft.

Image Source: Google Earth

DATE: January 31, 2023		<b>Extraction Oil &amp; Gas, Inc.</b> <b>Culver 5-17 Tank Battery</b> SWNE Sec. 17-T1N-R69W Boulder County, Colorado	Site Overview Map	FIGURE 2
DESIGNED BY: S. Vogt				
DRAWN BY: S. Kirylo				





DATE:	January 31, 2023
DESIGNED BY:	S. Vogt
DRAWN BY:	S. Kirylo



Extraction Oil & Gas, Inc.  
Culver 5-17 Tank Battery  
SWNE Sec. 17-T1N-R69W  
Boulder County, Colorado

Excavation Soil Sample Exceedance  
Map – Organics  
(10/27/2022 – 11/10/2022)

FIGURE  
3A





DATE:	March 2, 2023
DESIGNED BY:	S. Vogt
DRAWN BY:	S. Kirylo

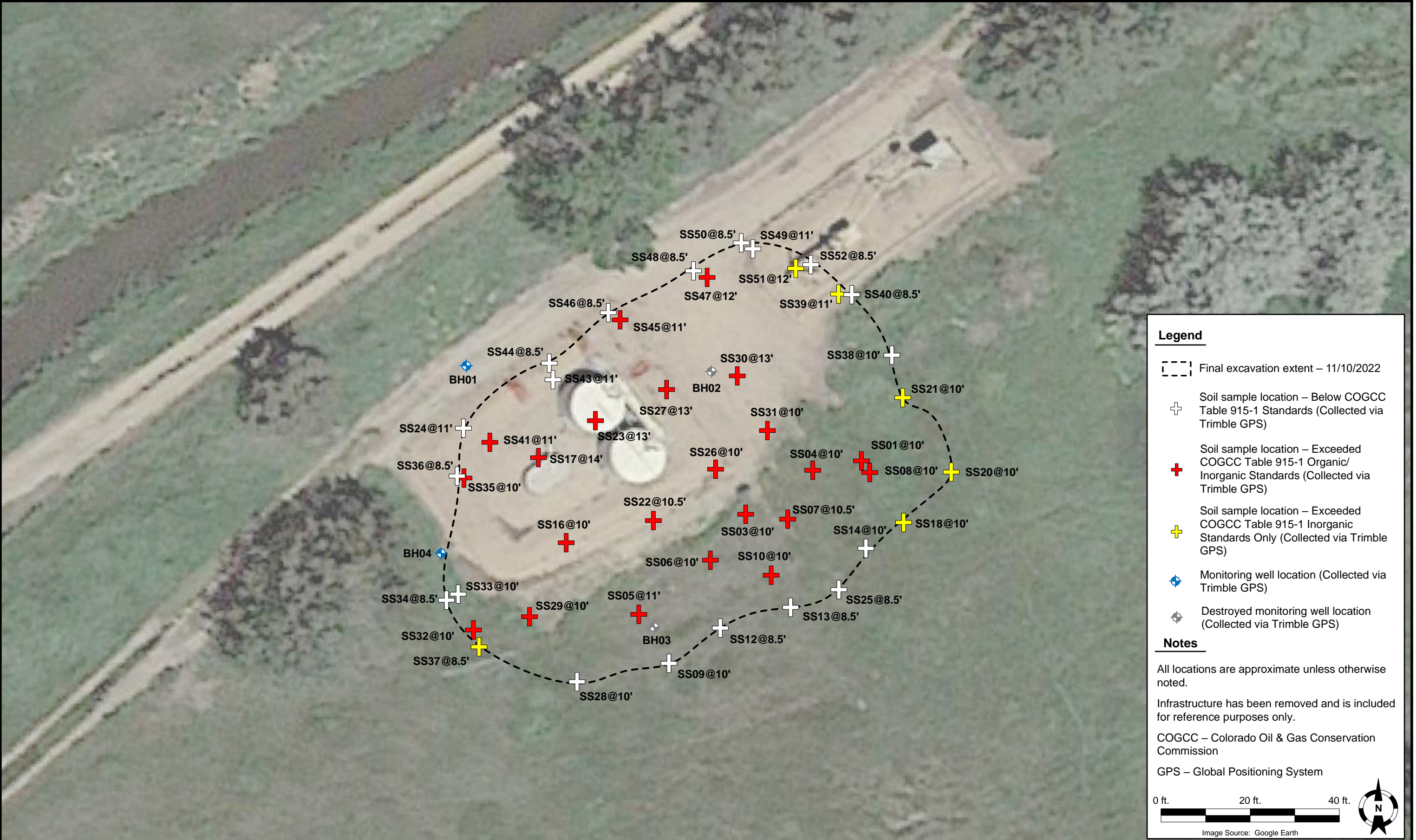


Extraction Oil & Gas, Inc.  
Culver 5-17 Tank Battery  
SWNE Sec. 17-T1N-R69W  
Boulder County, Colorado

Excavation Soil Sample Exceedance  
Map – Inorganics  
(10/27/2022 – 11/10/2022)

FIGURE  
3B





DATE:	March 2, 2023
DESIGNED BY:	S. Vogt
DRAWN BY:	S. Kirylo

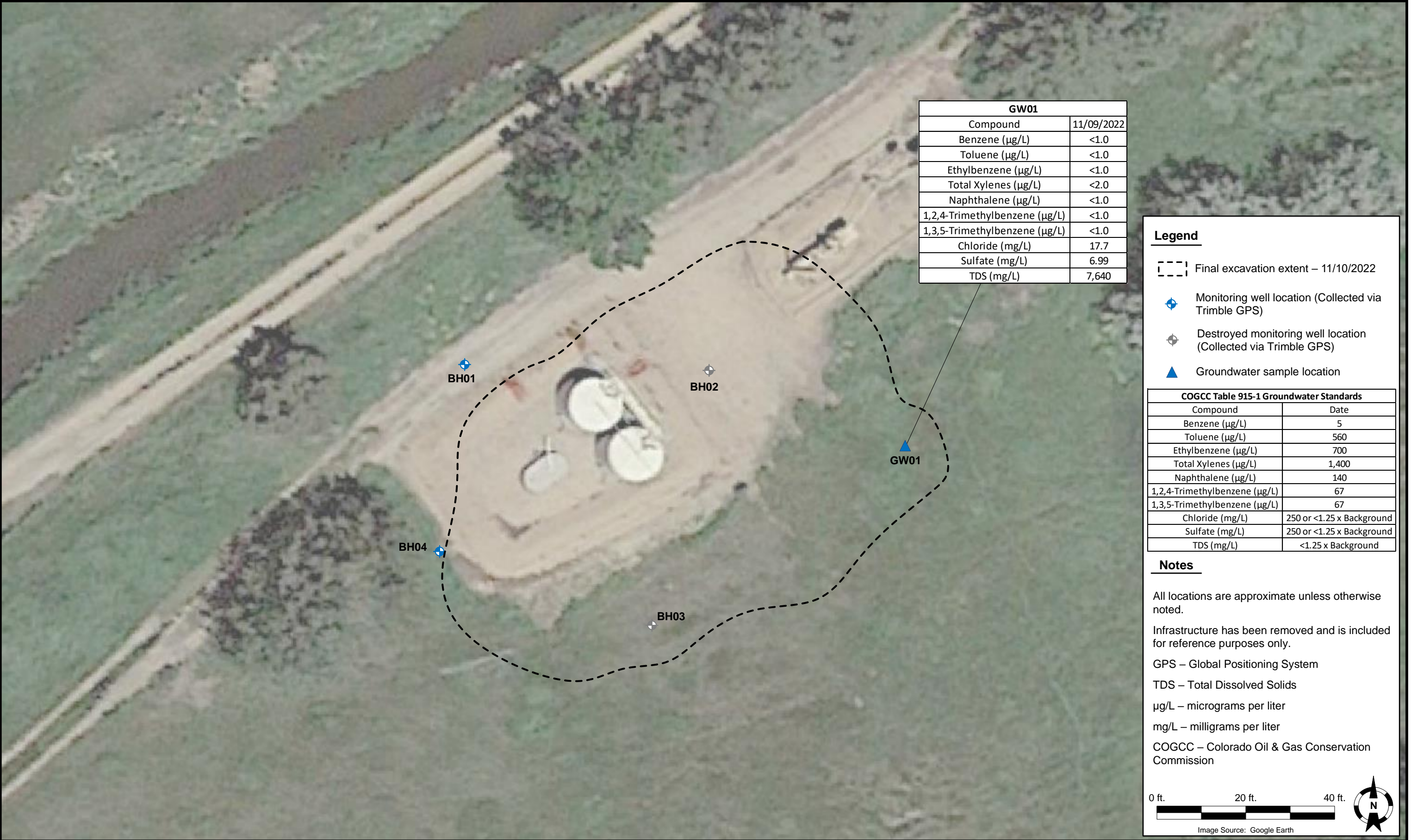


**Extraction Oil & Gas, Inc.**  
**Culver 5-17 Tank Battery**  
SWNE Sec. 17-T1N-R69W  
Boulder County, Colorado

Excavation Soil Samples Left in Place  
(10/27/2022 – 11/10/2022)

**FIGURE**  
**3C**





## **TABLES**



**TABLE 1A**  
**CULVER 5-17 TANK BATTERY**  
**SOIL SAMPLE LOCATIONS**  
**EXTRACTION OIL & GAS, INC.**



Soil Sample Location	Depth	Date	PID Reading (ppm)	Latitude	Longitude	GPS PDOP Value	Lab (Y/N)
FL/SEP04@4'	4'	04/19/2022	50.1	40.052652	-105.137811	-	Y
AST01@3"	3"	04/19/2022	35.4	-	-	-	Y
AST02@2"	2"	04/19/2022	16.8	-	-	-	Y
PWV01B@4'	4'	04/19/2022	426.8	40.052562	-105.138046	-	Y
PWV01N@3'	3'	04/19/2022	8.8	40.052574	-105.138045	-	Y
PWV01E@3.5'	3.5'	04/19/2022	1,780	40.052576	-105.138031	-	Y
PWV01S@1'	1'	04/19/2022	23.2	40.052549	-105.138026	-	Y
PWV01W@2'	2'	04/19/2022	940.4	40.052545	-105.138052	-	Y
BKG01@4"	4"	04/19/2022	-	40.051679	-105.139727	-	Y
BH01@6'	6'	09/09/2022	0.0	40.052613	-105.138091	1.4	Y
BH02@7'	7'	09/09/2022	1,793	40.052609	-105.137895	1.4	Y
BH03@8.5'	8.5'	09/09/2022	-	40.052452	-105.137941	1.4	Y
BH04@6.5'	6.5'	09/09/2022	0.0	40.052497	-105.138112	2.1	Y
BG01@6.5'	6.5'	09/09/2022	0.0	-	-	-	Y
BG02@6.5'	6.5'	09/09/2022	0.0	-	-	-	Y
SP-CS01	-	10/06/2022	-	-	-	-	Y
SP-CS02	-	10/06/2022	-	-	-	-	Y
SP-CS03	-	10/06/2022	-	-	-	-	Y
SP-CS04	-	10/06/2022	-	-	-	-	Y
SP-CS05	-	10/06/2022	-	-	-	-	Y
SP-CS06	-	10/06/2022	-	-	-	-	Y
SP-CS07	-	10/06/2022	-	-	-	-	Y
SP-CS08	-	10/06/2022	-	-	-	-	Y
SP-CS09	-	10/06/2022	-	-	-	-	Y
SS01@10'	10'	10/27/2022	0.1	40.052555	-105.137774	1.3	Y
SS02@7'	7'	10/27/2022	402.2	40.052526	-105.137872	1.3	Y
SS03@10'	10'	10/27/2022	1,345	40.052518	-105.137833	1	Y
SS04@10'	10'	10/27/2022	766.2	40.052548	-105.137814	1	Y
SS05@11'	11'	10/28/2022	551.5	40.052461	-105.137952	1.2	Y
SS06@10'	10'	10/28/2022	1,884	40.052493	-105.137895	1.2	Y
SS07@10.5'	10.5'	10/31/2022	2,092	40.052520	-105.137833	1.4	Y
SS08@10'	10'	10/31/2022	154.7	40.052551	-105.137767	1.4	Y
SS09@10'	10'	11/01/2022	1.1	40.052430	-105.137929	1.2	Y
SS10@10'	10'	11/01/2022	1,368	40.052485	-105.137848	1	Y
SS11@9.5'	9.5'	11/01/2022	557.4	40.052487	-105.137806	1	Y

**TABLE 1A**  
**CULVER 5-17 TANK BATTERY**  
**SOIL SAMPLE LOCATIONS**  
**EXTRACTION OIL & GAS, INC.**



Soil Sample Location	Depth	Date	PID Reading (ppm)	Latitude	Longitude	GPS PDOP Value	Lab (Y/N)
SS12@8.5'	8.5'	11/01/2022	13.7	40.052453	-105.137886	1	Y
SS13@8.5'	8.5'	11/01/2022	49.4	40.052468	-105.137832	1	Y
SS14@10'	10'	11/01/2022	10.0	40.052501	-105.137770	1.1	Y
SS15@8.5'	8.5'	11/01/2022	11.7	40.052474	-105.137831	1.2	Y
SS16@10'	10'	11/02/2022	3,257	40.052504	-105.138010	1.1	Y
SS17@14'	14'	11/02/2022	2,604	40.052556	-105.138034	1.1	Y
SS18@10'	10'	11/02/2022	295.2	40.052517	-105.137741	1	Y
SS19@8'	8'	11/02/2022	227.1	40.052586	-105.137757	1	Y
SS20@10'	10'	11/02/2022	1.8	40.052549	-105.137700	1.2	Y
SS21@10'	10'	11/02/2022	2.6	40.052594	-105.137741	1.2	Y
SS22@10.5'	10.5'	11/02/2022	1,912	40.052517	-105.137941	1.1	Y
SS23@13'	13'	11/02/2022	2,007	40.052579	-105.137986	1.1	Y
SS24@11'	11'	11/03/2022	0.0	40.052573	-105.138093	1.1	Y
SS25@8.5'	8.5'	11/03/2022	3.3	40.052469	-105.137791	1	Y
SS26@10'	10'	11/03/2022	2,891	40.052547	-105.137890	1.1	Y
SS27@13'	13'	11/03/2022	2,953	40.052599	-105.137929	1.1	Y
SS28@10'	10'	11/03/2022	0.0	40.052419	-105.138000	1	Y
SS29@10'	10'	11/03/2022	1,206	40.052457	-105.138040	1	Y
SS30@13'	13'	11/03/2022	2,464	40.052607	-105.137872	1	Y
SS31@10'	10'	11/03/2022	1,942	40.052573	-105.137849	1	Y
SS32@10'	10'	11/07/2022	31.4	40.052447	-105.138088	1.2	Y
SS33@10'	10'	11/07/2022	430.5	40.052472	-105.138098	0.9	Y
SS34@8.5'	8.5'	11/07/2022	2.0	40.052470	-105.138101	0.9	Y
SS35@10'	10'	11/07/2022	1,481	40.052544	-105.138093	1	Y
SS36@8.5'	8.5'	11/07/2022	0.2	40.052546	-105.138093	1.1	Y
SS37@8.5'	8.5'	11/07/2022	0.4	40.052439	-105.138082	1.1	Y
SS38@10'	10'	11/07/2022	12.4	40.052620	-105.137750	1.1	Y
SS39@11'	11'	11/07/2022	356.3	40.052658	-105.137789	1.1	Y
SS40@8.5'	8.5'	11/08/2022	0.7	40.052658	-105.137782	0.9	Y
SS41@11'	11'	11/08/2022	836.0	40.052563	-105.138071	1	Y
SS42@8.5'	8.5'	11/08/2022	2.3	40.052573	-105.138065	1	Y
SS43@11'	11'	11/08/2022	158.9	40.052604	-105.138021	1	Y
SS44@8.5'	8.5'	11/08/2022	4.1	40.052613	-105.138026	1	Y
SS45@11'	11'	11/09/2022	1,571	40.052643	-105.137978	1	Y
SS46@8.5'	8.5'	11/09/2022	21.2	40.052648	-105.137978	1	Y

**TABLE 1A**  
**CULVER 5-17 TANK BATTERY**  
**SOIL SAMPLE LOCATIONS**  
**EXTRACTION OIL & GAS, INC.**



Soil Sample Location	Depth	Date	PID Reading (ppm)	Latitude	Longitude	GPS PDOP Value	Lab (Y/N)
SS47@11'	11'	11/09/2022	1,202	40.052667	-105.137905	1.2	Y
SS48@8.5'	8.5'	11/09/2022	25.1	40.052672	-105.137908	1.2	Y
SS49@11'	11'	11/10/2022	0.0	40.052688	-105.137865	1.3	Y
SS50@8.5'	8.5'	11/10/2022	0.0	40.052689	-105.137871	1.3	Y
SS51@12'	12'	11/10/2022	0.3	40.052674	-105.137818	1.2	Y
SS52@8.5'	8.5'	11/10/2022	0.0	40.052675	-105.137817	1.2	Y

**Notes:**

PID = Photoionization Detector

ppm = parts per million

HC = Hydrocarbon

GPS = Global Positioning System

PDOP = Position Dilution of Precision

- = Not Applicable

10/29/20 [date] = Data collected by 3rd-party consultant(s)

**TABLE 2A**  
**CULVER 5-17 TANK BATTERY**  
**SOIL ANALYTICAL DATA - VOCs**  
**EXTRACTION OIL & GAS, INC.**



Soil Sample Location	Depth	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TVPH-GRO (mg/kg)	TEPH-DRO (mg/kg)	TEPH-ORO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
COGCC Organic Compounds in Soils <sup>(1)</sup>			0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
COGCC Organic Compounds in Soils <sup>(2)</sup>			1.2	490	5.8	58	2	500			30	27
FL/SEP04@4'	4'	04/19/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<100			<0.00200	<0.00200
AST01@3"	3"	04/19/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<100			<0.00200	<0.00200
AST02@2"	2"	04/19/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	172.2			<0.00200	<0.00200
PWV01B@4'	4'	04/19/2022	<0.00200	<0.00200	<0.00200	<0.00200	0.02430	725.5			<0.00200	<0.00200
PWV01N@3'	3'	04/19/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00335	<100			<0.00200	<0.00200
PWV01E@3.5'	3.5'	04/19/2022	0.00664	<0.00200	<0.00200	0.00336	0.715	2,335.2			0.0801	<0.00200
PWV01S@1'	1'	04/19/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<100			<0.00200	<0.00200
PWV01W@2'	2'	04/19/2022	<0.00200	<0.00200	<0.00200	<0.00200	0.00571	<100			<0.00200	<0.00200
BH01@6'	6'	09/09/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100	<0.00200	<0.00200
BH02@7'	7'	09/09/2022	<0.00200	0.0521	0.00738	0.00426	0.582	207	700	127	0.395	<0.00200
BH03@8.5'	8.5'	09/09/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	14.2	<25.0	<100	0.0113	<0.00200
BH04@6.5'	6.5'	09/09/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100	<0.00200	<0.00200
SP-CS01	-	10/06/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<0.200	<25.0	<100	<0.00200	<0.00200
SP-CS02	-	10/06/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<0.200	<25.0	<100	<0.00200	<0.00200
SP-CS03	-	10/06/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<0.200	<25.0	<100	<0.00200	<0.00200
SP-CS04	-	10/06/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<0.200	<25.0	<100	<0.00200	<0.00200
SP-CS05	-	10/06/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<0.200	<25.0	<100	<0.00200	<0.00200
SP-CS06	-	10/06/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<0.200	117	127	<0.00200	<0.00200
SP-CS07	-	10/06/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<0.200	<25.0	<100	<0.00200	<0.00200
SP-CS08	-	10/06/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<0.200	<25.0	<100	<0.00200	<0.00200
SP-CS09	-	10/06/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<0.200	<25.0	<100	<0.00200	<0.00200
SS01@10'	10'	10/27/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS02@7'	7'	10/27/2022	<0.0020	<0.0050	<0.0050	<0.010	0.035	380	510	<50	<0.0050	<0.0050
SS03@10'	10'	10/27/2022	<0.0020	<0.0050	<0.0050	<0.010	0.12	260	190	<50	<0.0050	<0.0050

**TABLE 2A**  
**CULVER 5-17 TANK BATTERY**  
**SOIL ANALYTICAL DATA - VOCs**  
**EXTRACTION OIL & GAS, INC.**



Soil Sample Location	Depth	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TVPH-GRO (mg/kg)	TEPH-DRO (mg/kg)	TEPH-ORO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
COGCC Organic Compounds in Soils <sup>(1)</sup>			0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
COGCC Organic Compounds in Soils <sup>(2)</sup>			1.2	490	5.8	58	2	500			30	27
SS04@10'	10'	10/27/2022	<0.0020	<0.0050	0.0065	<0.010	0.016	730	690	66	<0.0050	<0.0050
SS05@11'	11'	10/28/2022	<0.0020	<0.0050	0.0065	<0.010	0.083	11	<50	<50	<0.0050	<0.0050
SS06@10'	10'	10/28/2022	<0.0020	<0.0050	0.0065	<0.010	1.7	610	480	<50	<0.0050	<0.0050
SS07@10.5'	10.5'	10/31/2022	<0.0020	<0.0050	0.0065	<0.010	<0.0038	1.3	<50	<50	<0.0050	<0.0050
SS08@10'	10'	10/31/2022	<0.0020	<0.0050	0.0065	<0.010	0.46	1,700	<50	<50	<0.0050	<0.0050
SS09@10'	10'	11/01/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS10@10'	10'	11/01/2022	<0.0020	<0.0050	<0.0050	<0.010	0.16	380	260	<50	<0.0050	<0.0050
SS11@9.5'	9.5'	11/01/2022	<0.0020	<0.0050	<0.0050	<0.010	0.32	290	290	<50	<0.0050	<0.0050
SS12@8.5'	8.5'	11/01/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS13@8.5'	8.5'	11/01/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS14@10'	10'	11/01/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS15@8.5'	8.5'	11/01/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS16@10'	10'	11/02/2022	<0.0020	<0.0050	<0.0050	<0.010	0.43	1,300	480	<50	0.011	<0.0050
SS17@14'	14'	11/02/2022	<0.0020	<0.0050	0.17	<0.010	7.5	7,600	1,500	110	<0.0050	<0.0050
SS18@10'	10'	11/02/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS19@8'	8'	11/02/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS20@10'	10'	11/02/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS21@10'	10'	11/02/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS22@10.5'	10.5'	11/02/2022	<0.0020	<0.0050	<0.0050	<0.010	3.3	2,300	1,900	150	<0.0050	<0.0050
SS23@13'	13'	11/02/2022	<0.0020	<0.0050	<0.0050	<0.010	0.76	1,100	270	<50	<0.0050	<0.0050
SS24@11'	11'	11/03/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS25@8.5'	8.5'	11/03/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS26@10'	10'	11/03/2022	<0.0020	<0.0050	<0.0050	<0.010	0.94	1,800	540	68	<0.0050	<0.0050
SS27@13'	13'	11/03/2022	<0.0020	<0.0050	<0.0050	<0.010	0.16	5,900	1,800	190	<0.0050	<0.0050

**TABLE 2A**  
**CULVER 5-17 TANK BATTERY**  
**SOIL ANALYTICAL DATA - VOCs**  
**EXTRACTION OIL & GAS, INC.**



Soil Sample Location	Depth	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TVPH-GRO (mg/kg)	TEPH-DRO (mg/kg)	TEPH-ORO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
COGCC Organic Compounds in Soils <sup>(1)</sup>			0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
COGCC Organic Compounds in Soils <sup>(2)</sup>			1.2	490	5.8	58	2	500			30	27
SS28@10'	10'	11/03/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS29@10'	10'	11/03/2022	<0.0020	<0.0050	<0.0050	<0.010	0.52	2,100	1,000	78	<0.0050	<0.0050
SS30@13'	13'	11/03/2022	<0.0020	<0.0050	<0.0050	<0.010	0.077	2,500	820	<50	<0.0050	<0.0050
SS31@10'	10'	11/03/2022	<0.0020	<0.0050	<0.0050	<0.010	0.047	3,700	810	<50	<0.0050	<0.0050
SS32@10'	10'	11/07/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS33@10'	10'	11/07/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	210	260	<50	<0.0050	<0.0050
SS34@8.5'	8.5'	11/07/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS35@10'	10'	11/07/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	62	130	<50	<0.0050	<0.0050
SS36@8.5'	8.5'	11/07/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS37@8.5'	8.5'	11/07/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS38@10'	10'	11/07/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS39@11'	11'	11/07/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	4.1	<50	<50	<0.0050	<0.0050
SS40@8.5'	8.5'	11/08/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS41@11'	11'	11/08/2022	<0.0020	<0.0050	<0.0050	<0.010	0.056	13	94	<50	<0.0050	<0.0050
SS42@8.5'	8.5'	11/08/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS43@11'	11'	11/08/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	1.6	<50	<50	<0.0050	<0.0050
SS44@8.5'	8.5'	11/08/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS45@11'	11'	11/09/2022	<0.0020	<0.0050	<0.0050	<0.010	0.13	200	550	<50	<0.0050	<0.0050
SS46@8.5'	8.5'	11/09/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	2.5	<50	<50	<0.0050	<0.0050
SS47@12'	12'	11/09/2022	<0.0020	<0.0050	<0.0050	<0.010	0.099	280	270	<50	<0.0050	<0.0050
SS48@8.5'	8.5'	11/09/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	0.81	<50	<50	<0.0050	<0.0050
SS49@11'	11'	11/10/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS50@8.5'	8.5'	11/10/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS51@12'	12'	11/10/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050

**TABLE 2A**  
**CULVER 5-17 TANK BATTERY**  
**SOIL ANALYTICAL DATA - VOCs**  
**EXTRACTION OIL & GAS, INC.**

Soil Sample Location	Depth	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TVPH-GRO (mg/kg)	TEPH-DRO (mg/kg)	TEPH-ORO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
COGCC Organic Compounds in Soils <sup>(1)</sup>			0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
COGCC Organic Compounds in Soils <sup>(2)</sup>			1.2	490	5.8	58	2	500			30	27
SS52@8.5'	8.5'	11/10/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050

**Notes:**

VOCs = Volatile Organic Compounds

(1) Standards for soil are taken from COGCC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations (Effective January 15, 2021)

(2) Standards for soil are taken from COGCC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations (Effective January 15, 2021)

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

mg/kg = milligrams per kilogram

TVPH - GRO = Total Volatile Petroleum Hydrocarbons - Gasoline Range Organics

TEPH - DRO = Total Extractable Petroleum Hydrocarbons - Diesel Range Organics

TEPH - ORO = Total Extractable Petroleum Hydrocarbons - Oil Range Organics

1,2,4 - TMB = 1,2,4 - Trimethylbenzene

1,3,5 - TMB = 1,3,5 - Trimethylbenzene

**BOLD** = Analytical result is in exceedance of COGCC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations

**BOLD** = Analytical result is in exceedance of COGCC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations

10/29/20 [date] = Data collected by 3rd-party consultant(s)

**TABLE 3A**  
**CULVER 5-17 TANK BATTERY**  
**SOIL ANALYTICAL DATA - PAHs**  
**EXTRACTION OIL & GAS, INC.**



Soil Sample Location	Depth	Date	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)A (mg/kg)	Benzo(b)F (mg/kg)	Benzo(k)F (mg/kg)	Benzo(a)P (mg/kg)	Chrysene (mg/kg)	D (a,h) A (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	1,2,3-CD (mg/kg)	1-M (mg/kg)	2-M (mg/kg)	Pyrene (mg/kg)
COGCC Organic Compounds in Soils <sup>(1)</sup>			0.55	5.8	0.011	0.3	2.9	0.24	9	0.96	8.9	0.54	0.98	0.006	0.019	1.3
COGCC Organic Compounds in Soils <sup>(2)</sup>			360	1,800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
PWV01B@4'	4'	04/19/2022	0.0225	<0.0067	0.00858	<0.0067	<0.0067	<0.0067	0.0304	<0.0067	<0.0067	0.0481	<0.0067	0.0907	0.132	0.0108
PWV01N@3'	3'	04/19/2022	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335
PWV01E@3.5'	3.5'	04/19/2022	0.163	0.00909	0.0116	<0.0067	<0.0067	<0.0067	0.0601	<0.0067	0.00554	0.348	<0.0067	1.52	2.75	0.0275
PWV01S@1'	1'	04/19/2022	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
PWV01W@2'	2'	04/19/2022	0.0021	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000801	<0.00067	<0.00067	0.0042	<0.00067	0.0155	0.0268	<0.00067
BH01@6'	6'	09/09/2022	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
BH02@7'	7'	09/09/2022	0.114	0.00344	0.00873	<0.00335	<0.00335	<0.00335	0.0361	<0.00335	<0.00335	0.215	<0.00335	1.05	2.53	0.0187
BH03@8.5'	8.5'	09/09/2022	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
BH04@6.5'	6.5'	09/09/2022	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS01@10'	10'	10/27/2022	<0.00500	0.0566	0.0340	0.0186	0.00744	0.0133	0.0561	<0.00500	0.157	0.0852	0.00603	0.133	<0.00500	0.153
SS02@7'	7'	10/27/2022	<0.00500	<0.00500	0.0508	0.0343	0.0143	0.0272	0.0997	<0.00500	0.162	0.190	0.0136	0.0991	<0.00500	0.167
SS03@10'	10'	10/27/2022	<0.00500	0.0321	0.0446	0.0261	0.0104	0.0203	0.0592	<0.00500	0.149	0.112	0.0105	0.0905	<0.00500	0.139
SS04@10'	10'	10/27/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS05@11'	11'	10/28/2022	<0.00500	<0.00500	0.0109	0.00537	<0.00500	<0.00500	0.0110	<0.00500	0.0386	0.0181	<0.00500	0.0785	0.174	0.0351
SS06@10'	10'	10/28/2022	<0.00500	0.104	0.164	0.118	0.0471	0.0932	0.186	0.00905	0.586	0.119	0.0478	2.33	0.834	0.489
SS07@10.5'	10.5'	10/31/2022	<0.00500	0.0558	0.0599	0.0458	0.0192	0.0353	0.100	<0.00500	0.311	0.101	0.0173	1.46	5.37	0.269
SS08@10'	10'	10/31/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS09@10'	10'	11/01/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS10@10'	10'	11/01/2022	<0.00500	0.00534	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0254	0.0159	<0.00500	0.0810	0.165	0.0202
SS11@9.5'	9.5'	11/01/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00648	<0.00500	<0.00500	0.0301	<0.00500	0.173	0.408	<0.00500
SS12@8.5'	8.5'	11/01/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS13@8.5'	8.5'	11/01/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS14@10'	10'	11/01/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS15@8.5'	8.5'	11/01/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS16@10'	10'	11/02/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0240	0.0570	0.0377	0.588	<0.00500	2.60	5.62	0.0339
SS17@14'	14'	11/02/2022	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	0.212	<0.0500	<0.0500	0.932	<0.0500	10.6	25.7	0.0798





Soil Sample Location	Depth	Date	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)A (mg/kg)	Benzo(b)F (mg/kg)	Benzo(k)F (mg/kg)	Benzo(a)P (mg/kg)	Chrysene (mg/kg)	D (a,h) A (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	1,2,3-CD (mg/kg)	1-M (mg/kg)	2-M (mg/kg)	Pyrene (mg/kg)
COGCC Organic Compounds in Soils <sup>(1)</sup>			0.55	5.8	0.011	0.3	2.9	0.24	9	0.96	8.9	0.54	0.98	0.006	0.019	1.3
COGCC Organic Compounds in Soils <sup>(2)</sup>			360	1,800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
SS18@10'	10'	11/02/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS19@8'	8'	11/02/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS20@10'	10'	11/02/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS21@10'	10'	11/02/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS22@10.5'	10.5'	11/02/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0455	<0.00500	<0.00500	0.0933	<0.00500	11.8	19.8	0.0130
SS23@13'	13'	11/02/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0342	<0.00500	0.0139	0.0919	<0.00500	3.76	6.16	0.0112
SS24@11'	11'	11/03/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS25@8.5'	8.5'	11/03/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS26@10'	10'	11/03/2022	<0.00500	<0.00500	0.0246	0.0246	0.00744	0.0154	0.0712	<0.00500	0.0816	0.103	<0.00500	2.53	6.75	0.0957
SS27@13'	13'	11/03/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0263	<0.00500	<0.00500	0.0453	<0.00500	1.30	3.62	0.00845
SS28@10'	10'	11/03/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS29@10'	10'	11/03/2022	<0.00500	0.0966	0.0935	0.0602	0.0246	0.0480	0.104	<0.00500	0.556	0.108	0.0115	0.562	1.16	0.324
SS30@13'	13'	11/03/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0114	0.0478	<0.00500	<0.00500	0.0849	<0.00500	0.676	1.47	0.0191
SS31@10'	10'	11/03/2022	<0.00500	<0.00500	0.0997	0.0867	0.0330	0.0573	0.139	<0.00500	0.704	<0.00500	0.0143	1.29	2.84	0.461
SS32@10'	10'	11/07/2022	<0.00500	<0.00500	0.0214	0.0112	<0.00500	0.00828	0.0273	<0.00500	0.0747	0.0472	<0.00500	0.177	<0.00500	0.0762
SS33@10'	10'	11/07/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0396	<0.00500	<0.00500	0.0499	<0.00500	<0.00500	<0.00500	0.0143
SS34@8.5'	8.5'	11/07/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS35@10'	10'	11/07/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00733	<0.00500	<0.00500	0.0508	<0.00500	0.327	0.176	<0.00500
SS36@8.5'	8.5'	11/07/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS37@8.5'	8.5'	11/07/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS38@10'	10'	11/07/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS39@11'	11'	11/07/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0127	<0.00500	0.00656	0.0472	<0.00500	<0.00500	<0.00500	<0.00500
SS40@8.5'	8.5'	11/08/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS41@11'	11'	11/08/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS42@8.5'	8.5'	11/08/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS43@11'	11'	11/08/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

**TABLE 3A**  
**CULVER 5-17 TANK BATTERY**  
**SOIL ANALYTICAL DATA - PAHs**  
**EXTRACTION OIL & GAS, INC.**



Soil Sample Location	Depth	Date	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)A (mg/kg)	Benzo(b)F (mg/kg)	Benzo(k)F (mg/kg)	Benzo(a)P (mg/kg)	Chrysene (mg/kg)	D (a,h) A (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	1,2,3-CD (mg/kg)	1-M (mg/kg)	2-M (mg/kg)	Pyrene (mg/kg)
COGCC Organic Compounds in Soils <sup>(1)</sup>			0.55	5.8	0.011	0.3	2.9	0.24	9	0.96	8.9	0.54	0.98	0.006	0.019	1.3
COGCC Organic Compounds in Soils <sup>(2)</sup>			360	1,800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
SS44@8.5'	8.5'	11/08/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS45@11'	11'	11/09/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00972	<0.00500	<0.00500	0.0560	<0.00500	<b>0.701</b>	<b>1.26</b>	<0.00500
SS46@8.5'	8.5'	11/09/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS47@11'	11'	11/09/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0150	<0.00500	<0.00500	0.0699	<0.00500	<b>0.637</b>	<b>1.07</b>	<0.00500
SS48@8.5'	8.5'	11/09/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS49@11'	11'	11/10/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS50@8.5'	8.5'	11/10/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS51@12'	12'	11/10/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS52@8.5'	8.5'	11/10/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

**Notes:**

PAHs = Polycyclic Aromatic Hydrocarbons

(1) Standards for soil are taken from COGCC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations (Effective January 15, 2021)

(2) Standards for soil are taken from COGCC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations (Effective January 15, 2021)

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

mg/kg = milligrams per kilogram

Benzo(a)A = Benzo(a)Anthracene

Benzo(b)F = Benzo(b)Fluoranthene

Benzo(k)F = Benzo(k)Fluoranthene

Benzo(a)P = Benzo(a)Pyrene

D (a,h) A = Dibenz(a,h)Anthracene

1,2,3-CD = Indeno(1,2,3-cd)Pyrene

1-M = 1-Methylnaphthalene

2-M = 2-Methylnaphthalene

**BOLD** = Analytical result is in exceedance of COGCC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations

**BOLD** = Analytical result is in exceedance of COGCC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations

10/29/20 [date] = Data collected by 3rd-party consultant(s)

**TABLE 4A**  
**CULVER 5-17 TANK BATTERY**  
**SOIL ANALYTICAL DATA - METALS**  
**EXTRACTION OIL & GAS, INC.**



Soil Sample Location	Depth	Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
COGCC Metals in Soils <sup>(1)</sup>			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
COGCC Metals in Soils <sup>(2)</sup>			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
PWV01B@4'	4'	04/19/2022	3.80	162	0.220	<0.515	16.7	15.4	19.5	0.477	0.0651	70.9
PWV01N@3'	3'	04/19/2022	2.09	115	0.137	<0.246	8.16	8.06	10.2	0.354	0.0404	35.1
PWV01E@3.5'	3.5'	04/19/2022	1.93	128	0.143	<0.514	13.4	10.7	13.6	0.456	0.0526	48.8
PWV01S@1'	1'	04/19/2022	2.52	120	0.146	<0.507	10.0	9.08	11.6	0.385	0.0480	42.0
PWV01W@2'	2'	04/19/2022	2.27	115	0.152	<0.245	9.73	8.86	11.7	0.345	0.0421	42.3
BH01@6'	6'	09/09/2022	-	-	-	-	-	10.2	-	-	-	-
BH02@7'	7'	09/09/2022	-	-	-	-	-	<9.60	-	-	-	-
BH03@8.5'	8.5'	09/09/2022	-	-	-	-	-	<7.50	-	-	-	-
BH04@6.5'	6.5'	09/09/2022	-	-	-	-	-	<8.26	-	-	-	-
SS01@10'	10'	10/27/2022	-	-	-	-	-	3.53	-	-	-	-
SS02@7'	7'	10/27/2022	-	-	-	-	-	5.63	-	-	-	-
SS03@10'	10'	10/27/2022	-	-	-	-	-	3.96	-	-	-	-
SS04@10'	10'	10/27/2022	-	-	-	-	-	3.11	-	-	-	-
SS05@11'	11'	10/28/2022	-	-	-	-	-	5.60	-	-	-	-
SS06@10'	10'	10/28/2022	-	-	-	-	-	2.58	-	-	-	-
SS07@10.5'	10.5'	10/31/2022	-	-	-	-	-	2.04	-	-	-	-
SS08@10'	10'	10/31/2022	-	-	-	-	-	4.38	-	-	-	-
SS09@10'	10'	11/01/2022	-	-	-	-	-	2.22	-	-	-	-
SS10@10'	10'	11/01/2022	-	-	-	-	-	3.08	-	-	-	-
SS11@9.5'	9.5'	11/01/2022	-	-	-	-	-	2.43	-	-	-	-
SS12@8.5'	8.5'	11/01/2022	-	-	-	-	-	9.32	-	-	-	-
SS13@8.5'	8.5'	11/01/2022	-	-	-	-	-	13.4	-	-	-	-
SS14@10'	10'	11/01/2022	-	-	-	-	-	2.62	-	-	-	-
SS15@8.5'	8.5'	11/01/2022	-	-	-	-	-	4.67	-	-	-	-

**TABLE 4A**  
**CULVER 5-17 TANK BATTERY**  
**SOIL ANALYTICAL DATA - METALS**  
**EXTRACTION OIL & GAS, INC.**



Soil Sample Location	Depth	Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
COGCC Metals in Soils <sup>(1)</sup>			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
COGCC Metals in Soils <sup>(2)</sup>			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
SS16@10'	10'	11/02/2022	-	-	-	-	-	8.29	-	-	-	-
SS17@14'	14'	11/02/2022	-	-	-	-	-	4.17	-	-	-	-
SS18@10'	10'	11/02/2022	-	-	-	-	-	2.85	-	-	-	-
SS19@8'	8'	11/02/2022	-	-	-	-	-	10.3	-	-	-	-
SS20@10'	10'	11/02/2022	-	-	-	-	-	3.46	-	-	-	-
SS21@10'	10'	11/02/2022	-	-	-	-	-	16.3	-	-	-	-
SS22@10.5'	10.5'	11/02/2022	-	-	-	-	-	8.25	-	-	-	-
SS23@13'	13'	11/02/2022	-	-	-	-	-	3.68	-	-	-	-
SS24@11'	11'	11/03/2022	-	-	-	-	-	4.52	-	-	-	-
SS25@8.5'	8.5'	11/03/2022	-	-	-	-	-	5.50	-	-	-	-
SS26@10'	10'	11/03/2022	-	-	-	-	-	3.44	-	-	-	-
SS27@13'	13'	11/03/2022	-	-	-	-	-	1.77	-	-	-	-
SS28@10'	10'	11/03/2022	-	-	-	-	-	7.99	-	-	-	-
SS29@10'	10'	11/03/2022	-	-	-	-	-	4.25	-	-	-	-
SS30@13'	13'	11/03/2022	-	-	-	-	-	2.14	-	-	-	-
SS31@10'	10'	11/03/2022	-	-	-	-	-	2.22	-	-	-	-
SS32@10'	10'	11/07/2022	-	-	-	-	-	7.12	-	-	-	-
SS33@10'	10'	11/07/2022	-	-	-	-	-	2.83	-	-	-	-
SS34@8.5'	8.5'	11/07/2022	-	-	-	-	-	11.5	-	-	-	-
SS35@10'	10'	11/07/2022	-	-	-	-	-	9.87	-	-	-	-
SS36@8.5'	8.5'	11/07/2022	-	-	-	-	-	6.54	-	-	-	-
SS37@8.5'	8.5'	11/07/2022	-	-	-	-	-	6.13	-	-	-	-
SS38@10'	10'	11/07/2022	-	-	-	-	-	10.9	-	-	-	-
SS39@11'	11'	11/07/2022	-	-	-	-	-	4.13	-	-	-	-

**TABLE 4A**  
**CULVER 5-17 TANK BATTERY**  
**SOIL ANALYTICAL DATA - METALS**  
**EXTRACTION OIL & GAS, INC.**

Soil Sample Location	Depth	Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
COGCC Metals in Soils <sup>(1)</sup>			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
COGCC Metals in Soils <sup>(2)</sup>			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
SS40@8.5'	8.5'	11/08/2022	-	-	-	-	-	12.5	-	-	-	-
SS41@11'	11'	11/08/2022	-	-	-	-	-	5.82	-	-	-	-
SS42@8.5'	8.5'	11/08/2022	-	-	-	-	-	9.20	-	-	-	-
SS43@11'	11'	11/08/2022	-	-	-	-	-	2.74	-	-	-	-
SS44@8.5'	8.5'	11/08/2022	-	-	-	-	-	12.1	-	-	-	-
SS45@11'	11'	11/09/2022	-	-	-	-	-	8.04	-	-	-	-
SS46@8.5'	8.5'	11/09/2022	-	-	-	-	-	8.35	-	-	-	-
SS47@11'	11'	11/09/2022	-	-	-	-	-	8.68	-	-	-	-
SS48@8.5'	8.5'	11/09/2022	-	-	-	-	-	9.74	-	-	-	-
SS49@11'	11'	11/10/2022	-	-	-	-	-	5.88	-	-	-	-
SS50@8.5'	8.5'	11/10/2022	-	-	-	-	-	8.00	-	-	-	-
SS51@12'	12'	11/10/2022	-	-	-	-	-	8.70	-	-	-	-
SS52@8.5'	8.5'	11/10/2022	-	-	-	-	-	8.34	-	-	-	-
<b>BACKGROUND</b>												
BKG01@4"	4"	04/19/2022	3.28	206	0.0928	<2.5	6.53	11.1	8.13	0.284	0.0753	38.7
BG01@6.5'	6.5'	09/09/2022	-	-	-	-	-	11.6	-	-	-	-
BG02@6.5'	6.5'	09/09/2022	-	-	-	-	-	<8.78	-	-	-	-

**Notes:**

(1) Standards for soil are taken from COGCC Table 915-1: Metals in Soils - Protection of Groundwater Soil Screening Level Concentrations (Effective January 15, 2021)

(2) Standards for soil are taken from COGCC Table 915-1: Metals in Soils - Residential Soil Screening Level Concentrations (Effective January 15, 2021)

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory minimum detection limit

mg/kg = milligrams per kilogram

**BOLD** = Analytical result is in exceedance of COGCC Table 915-1: Metals in Soils - Protection of Groundwater Soil Screening Level Concentrations

**BOLD** = Analytical result is in exceedance of COGCC Table 915-1: Metals in Soils - Residential Soil Screening Level Concentrations

*Italics* = Laboratory minimum detection limit exceeds the COGCC Table 915-1 Standard

\* Result exceeded the COGCC Table 915-1 standard, but was within site-specific 1.25x background multiplier levels

**TABLE 4A**  
**CULVER 5-17 TANK BATTERY**  
**SOIL ANALYTICAL DATA - METALS**  
**EXTRACTION OIL & GAS, INC.**



Soil Sample Location	Depth	Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
COGCC Metals in Soils <sup>(1)</sup>			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
COGCC Metals in Soils <sup>(2)</sup>			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000

10/29/20 [date] = Data collected by 3rd-party consultant(s)

- = Constituent not analyzed

**TABLE 5A**  
**CULVER 5-17 TANK BATTERY**  
**SOIL ANALYTICAL DATA - SOIL RECLAMATION**  
**EXTRACTION OIL & GAS, INC.**



Soil Sample Location	Depth	Date	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
<b>COGCC Soil Suitability for Reclamation<sup>(1)</sup></b>			<b>6 - 8.3</b>	<b>&lt; 6</b>	<b>&lt; 4</b>	<b>2</b>
FL/SEP04@4'	4'	04/19/2022	8.25	0.249	0.379	0.281
AST01@3"	3"	04/19/2022	8.19	0.0400	0.248	<0.0994
AST02@2"	2"	04/19/2022	8.29	0.336	0.255	<0.100
PWV01B@4'	4'	04/19/2022	<b>8.78</b>	1.080	1.080	0.399
PWV01N@3'	3'	04/19/2022	<b>8.53</b>	0.111	0.266	<0.100
PWV01E@3.5'	3.5'	04/19/2022	<b>8.67</b>	0.987	0.581	0.723
PWV01S@1'	1'	04/19/2022	<b>8.48</b>	0.057	0.272	0.241
PWV01W@2'	2'	04/19/2022	<b>8.47</b>	0.35	0.365	0.709
BH01@6'	6'	09/09/2022	8.31*	-	-	-
BH02@7'	7'	09/09/2022	7.91	-	-	-
BH03@8.5'	8.5'	09/09/2022	<b>8.45</b>	-	-	-
BH04@6.5'	6.5'	09/09/2022	<b>8.35</b>	-	-	-
SS01@10'	10'	10/27/2022	8.07	-	-	-
SS02@7'	7'	10/27/2022	<b>9.21</b>	-	-	-
SS03@10'	10'	10/27/2022	<b>8.47</b>	-	-	-
SS04@10'	10'	10/27/2022	8.29	-	-	-
SS05@11'	11'	10/28/2022	<b>8.32</b>	-	-	-
SS06@10'	10'	10/28/2022	<b>8.35</b>	-	-	-
SS07@10.5'	10.5'	10/31/2022	8.26	-	-	-
SS08@10'	10'	10/31/2022	<b>9.06</b>	-	-	-
SS9@10'	10'	11/01/2022	7.62	-	-	-
SS10@10'	10'	11/01/2022	<b>8.45</b>	-	-	-
SS11@9.5'	9.5'	11/01/2022	8.21	-	-	-
SS12@8.5'	8.5'	11/01/2022	8.30*	-	-	-
SS13@8.5'	8.5'	11/01/2022	7.92	-	-	-
SS14@10'	10'	11/01/2022	8.02	-	-	-
SS15@8.5'	8.5'	11/01/2022	8.22	-	-	-
SS16@10'	10'	11/02/2022	8.26	-	-	-
SS17@14'	14'	11/02/2022	7.32	-	-	-
SS18@10'	10'	11/02/2022	<b>8.35</b>	-	-	-

**TABLE 5A**  
**CULVER 5-17 TANK BATTERY**  
**SOIL ANALYTICAL DATA - SOIL RECLAMATION**  
**EXTRACTION OIL & GAS, INC.**



Soil Sample Location	Depth	Date	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
<b>COGCC Soil Suitability for Reclamation<sup>(1)</sup></b>			<b>6 - 8.3</b>	<b>&lt; 6</b>	<b>&lt; 4</b>	<b>2</b>
SS19@8'	8'	11/02/2022	8.07	-	-	-
SS20@10'	10'	11/02/2022	8.46	-	-	-
SS21@10'	10'	11/02/2022	7.94	-	-	-
SS22@10.5'	10.5'	11/02/2022	7.84	-	-	-
SS23@13'	13'	11/02/2022	8.42	-	-	-
SS24@11'	11'	11/03/2022	7.93	-	-	-
SS25@8.5'	8.5'	11/03/2022	8.24	-	-	-
SS26@10'	10'	11/03/2022	8.13	-	-	-
SS27@13'	13'	11/03/2022	8.11	-	-	-
SS28@10'	10'	11/03/2022	7.41	-	-	-
SS29@10'	10'	11/03/2022	9.05	-	-	-
SS30@13'	13'	11/03/2022	8.51	-	-	-
SS31@10'	10'	11/03/2022	8.56	-	-	-
SS32@10'	10'	11/07/2022	7.19	-	-	-
SS33@10'	10'	11/07/2022	8.05	-	-	-
SS34@8.5'	8.5'	11/07/2022	7.99	-	-	-
SS35@10'	10'	11/07/2022	7.54	-	-	-
SS36@8.5'	8.5'	11/07/2022	8.30*	-	-	-
SS37@8.5'	8.5'	11/07/2022	8.48	-	-	-
SS38@10'	10'	11/07/2022	8.30*	-	-	-
SS39@11'	11'	11/07/2022	8.58	-	-	-
SS40@8.5'	8.5'	11/08/2022	7.82	-	-	-
SS41@11'	11'	11/08/2022	8.31	-	-	-
SS42@8.5'	8.5'	11/08/2022	7.73	-	-	-
SS43@11'	11'	11/08/2022	8.07	-	-	-
SS44@8.5'	8.5'	11/08/2022	6.44	-	-	-
SS45@11'	11'	11/09/2022	7.05	-	-	-
SS46@8.5'	8.5'	11/09/2022	8.27	-	-	-
SS47@11'	11'	11/09/2022	7.31	-	-	-
SS48@8.5'	8.5'	11/09/2022	8.15	-	-	-



**TABLE 5A**  
**CULVER 5-17 TANK BATTERY**  
**SOIL ANALYTICAL DATA - SOIL RECLAMATION**  
**EXTRACTION OIL & GAS, INC.**



Soil Sample Location	Depth	Date	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
<b>COGCC Soil Suitability for Reclamation<sup>(1)</sup></b>			<b>6 - 8.3</b>	<b>&lt; 6</b>	<b>&lt; 4</b>	<b>2</b>
SS49@11'	11'	11/10/2022	8.15	-	-	-
SS50@8.5'	8.5'	11/10/2022	8.09	-	-	-
SS51@12'	12'	11/10/2022	<b>8.36</b>	-	-	-
SS52@8.5'	8.5'	11/10/2022	8.06	-	-	-
<b>BACKGROUND</b>						
BKG01@4"	4"	04/19/2022	7.76	0.06	0.337	0.340
BG01@6.5'	6.5'	09/09/2022	8.31	-	-	-
BG02@6.5'	6.5'	09/09/2022	8.14	-	-	-

**Notes:**

(1) Standards for soil are taken from COGCC Table 915-1: Soil Suitability for Reclamation (Effective January 15, 2021)

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

mmhos/cm = millimhos per centimeter

mg/L = milligrams per liter

pH = Potential of Hydrogen

SAR = Sodium Adsorption Ratio

EC = Electrical Conductivity

**BOLD** = Analytical result is in exceedance of COGCC Table 915-1: Soil Suitability for Reclamation Concentrations

\* Result exceeded the COGCC Table 915-1 standard, but was within site-specific background concentrations

10/29/20 [date] = Data collected by 3rd-party consultant(s)

- = Constituent not analyzed

**TABLE 6A**  
**CULVER 5-17 TANK BATTERY**  
**GROUNDWATER ANALYTICAL DATA**  
**EXTRACTION OIL & GAS, INC.**



Groundwater Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ehtylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4-TMB (µg/L)	1,3,5-TMB (µg/L)	Chloride (mg/L)	Sulfate (mg/L)	TDS (mg/L)
COGCC Organic Compounds in Groundwater and Groundwater Inorganic Parameters <sup>(1)</sup>		5	560	700	1,400	140	67	67	250 or <1.25 x Background	250 or <1.25 x Background	<1.25 x Background
BH01	09/16/2022	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	51.7	130	675
BH02	09/16/2022	<b>10.7</b>	<1.00	<1.00	<1.00	6.68	<2.00	<2.00	51.6	19.0	747
BH03	09/16/2022	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	44.7	21.9	430
BH04	09/16/2022	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	37.8	167	770
GW01	11/09/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	17.7	6.99	7,640

**Notes:**

(1) Standards for groundwater are taken from COGCC Table 915-1: Organic Compounds in Groundwater and Groundwater Inorganic Parameters (Effective January 15, 2021)

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

µg/L = micrograms per liter

1,2,4-TMB = 1,2,4-Trimethylbenzene

1,3,5-TMB = 1,3,5-Trimethylbenzene

TDS = Total Dissolved Solids

**BOLD** = Analytical result is in exceedance of COGCC Table 915-1: Organic Compounds in Groundwater and Groundwater Inorganic Parameters

\* Result exceeded the COGCC Table 915-1 standard, but was within site-specific background concentrations

**TABLE 7A**  
**CULVER 5-17 TANK BATTERY**  
**GROUNDWATER ELEVATION DATA**  
**EXTRACTION OIL & GAS, INC.**



Groundwater Sample ID	Date	Top of Casing Elevation (ft. AMSL)	Total Depth (ft.)	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	Groundwater Elevation* (ft. AMSL)
BH01	09/16/2022	NM	12.52	9.24	ND	ND	NM
BH02	09/16/2022	NM	13.14	9.02	9.01	0.01	NM
BH03	09/16/2022	NM	9.14	5.98	5.97	0.01	NM
BH04	09/16/2022	NM	8.37	7.21	ND	ND	NM

**Notes:**

\* Groundwater elevation was corrected for product thickness (when present) using the following calculation:

Groundwater elevation = (TOC Elevation - Measured Depth to Water)+(LNAPL Thickness in Well x LNAPL Relative Density)

LNAPL relative density was estimated to be approximately 0.75

**Definitions:**

ft. = feet

AMSL = Above Mean Sea Level

LNAPL = Light Non-Aqueous Phase Liquid

ND = Not detected

**TABLES**  
**SOIL SAMPLES LEFT IN PLACE**

**TABLE 1B**  
**CULVER 5-17 TANK BATTERY**  
**SOIL SAMPLE LOCATIONS LEFT IN PLACE**  
**EXTRACTION OIL & GAS, INC.**



Soil Sample Location	Depth	Date	PID Reading (ppm)	Latitude	Longitude	GPS PDOP Value	Lab (Y/N)
BKG01@4"	4"	04/19/2022	-	40.051679	-105.139727	-	Y
BH01@6'	6'	09/09/2022	0.0	40.052613	-105.138091	1.4	Y
BH04@6.5'	6.5'	09/09/2022	0.0	40.052497	-105.138112	2.1	Y
BG01@6.5'	6.5'	09/09/2022	0.0	-	-	-	Y
BG02@6.5'	6.5'	09/09/2022	0.0	-	-	-	Y
SS01@10'	10'	10/27/2022	0.1	40.052555	-105.137774	1.3	Y
SS03@10'	10'	10/27/2022	1,345	40.052518	-105.137833	1	Y
SS04@10'	10'	10/27/2022	766.2	40.052548	-105.137814	1	Y
SS05@11'	11'	10/28/2022	551.5	40.052461	-105.137952	1.2	Y
SS06@10'	10'	10/28/2022	1,884	40.052493	-105.137895	1.2	Y
SS07@10.5'	10.5'	10/31/2022	2,092	40.052520	-105.137833	1.4	Y
SS08@10'	10'	10/31/2022	154.7	40.052551	-105.137767	1.4	Y
SS09@10'	10'	11/01/2022	1.1	40.052430	-105.137929	1.2	Y
SS10@10'	10'	11/01/2022	1,368	40.052485	-105.137848	1	Y
SS12@8.5'	8.5'	11/01/2022	13.7	40.052453	-105.137886	1	Y
SS13@8.5'	8.5'	11/01/2022	49.4	40.052468	-105.137832	1	Y
SS14@10'	10'	11/01/2022	10.0	40.052501	-105.137770	1.1	Y
SS16@10'	10'	11/02/2022	3,257	40.052504	-105.138010	1.1	Y
SS17@14'	14'	11/02/2022	2,604	40.052556	-105.138034	1.1	Y
SS18@10'	10'	11/02/2022	295.2	40.052517	-105.137741	1	Y
SS20@10'	10'	11/02/2022	1.8	40.052549	-105.137700	1.2	Y
SS21@10'	10'	11/02/2022	2.6	40.052594	-105.137741	1.2	Y
SS22@10.5'	10.5'	11/02/2022	1,912	40.052517	-105.137941	1.1	Y
SS23@13'	13'	11/02/2022	2,007	40.052579	-105.137986	1.1	Y
SS24@11'	11'	11/03/2022	0.0	40.052573	-105.138093	1.1	Y
SS25@8.5'	8.5'	11/03/2022	3.3	40.052469	-105.137791	1	Y
SS26@10'	10'	11/03/2022	2,891	40.052547	-105.137890	1.1	Y
SS27@13'	13'	11/03/2022	2,953	40.052599	-105.137929	1.1	Y
SS28@10'	10'	11/03/2022	0.0	40.052419	-105.138000	1	Y
SS29@10'	10'	11/03/2022	1,206	40.052457	-105.138040	1	Y
SS30@13'	13'	11/03/2022	2,464	40.052607	-105.137872	1	Y
SS31@10'	10'	11/03/2022	1,942	40.052573	-105.137849	1	Y
SS32@10'	10'	11/07/2022	31.4	40.052447	-105.138088	1.2	Y
SS33@10'	10'	11/07/2022	430.5	40.052472	-105.138098	0.9	Y
SS34@8.5'	8.5'	11/07/2022	2.0	40.052470	-105.138101	0.9	Y

**TABLE 1B**  
**CULVER 5-17 TANK BATTERY**  
**SOIL SAMPLE LOCATIONS LEFT IN PLACE**  
**EXTRACTION OIL & GAS, INC.**



Soil Sample Location	Depth	Date	PID Reading (ppm)	Latitude	Longitude	GPS PDOP Value	Lab (Y/N)
SS35@10'	10'	11/07/2022	1,481	40.052544	-105.138093	1	Y
SS36@8.5'	8.5'	11/07/2022	0.2	40.052546	-105.138093	1.1	Y
SS37@8.5'	8.5'	11/07/2022	0.4	40.052439	-105.138082	1.1	Y
SS38@10'	10'	11/07/2022	12.4	40.052620	-105.137750	1.1	Y
SS39@11'	11'	11/07/2022	356.3	40.052658	-105.137789	1.1	Y
SS40@8.5'	8.5'	11/08/2022	0.7	40.052658	-105.137782	0.9	Y
SS41@11'	11'	11/08/2022	836.0	40.052563	-105.138071	1	Y
SS43@11'	11'	11/08/2022	158.9	40.052604	-105.138021	1	Y
SS44@8.5'	8.5'	11/08/2022	4.1	40.052613	-105.138026	1	Y
SS45@11'	11'	11/09/2022	1,571	40.052643	-105.137978	1	Y
SS46@8.5'	8.5'	11/09/2022	21.2	40.052648	-105.137978	1	Y
SS47@11'	11'	11/09/2022	1,202	40.052667	-105.137905	1.2	Y
SS48@8.5'	8.5'	11/09/2022	25.1	40.052672	-105.137908	1.2	Y
SS49@11'	11'	11/10/2022	0.0	40.052688	-105.137865	1.3	Y
SS50@8.5'	8.5'	11/10/2022	0.0	40.052689	-105.137871	1.3	Y
SS51@12'	12'	11/10/2022	0.3	40.052674	-105.137818	1.2	Y
SS52@8.5'	8.5'	11/10/2022	0.0	40.052675	-105.137817	1.2	Y

**Notes:**

PID = Photoionization Detector

ppm = parts per million

HC = Hydrocarbon

GPS = Global Positioning System

PDOP = Position Dilution of Precision

- = Not Applicable

10/29/20 [date] = Data collected by 3rd-party consultant(s)

**TABLE 2B**  
**CULVER 5-17 TANK BATTERY**  
**SOIL ANALYTICAL DATA - VOCs LEFT IN PLACE**  
**EXTRACTION OIL & GAS, INC.**



Soil Sample Location	Depth	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TVPH-GRO (mg/kg)	TEPH-DRO (mg/kg)	TEPH-ORO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
COGCC Organic Compounds in Soils <sup>(1)</sup>			0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
COGCC Organic Compounds in Soils <sup>(2)</sup>			1.2	490	5.8	58	2	500			30	27
BH01@6'	6'	09/09/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100	<0.00200	<0.00200
BH04@6.5'	6.5'	09/09/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100	<0.00200	<0.00200
SS01@10'	10'	10/27/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS03@10'	10'	10/27/2022	<0.0020	<0.0050	<0.0050	<0.010	0.12	260	190	<50	<0.0050	<0.0050
SS04@10'	10'	10/27/2022	<0.0020	<0.0050	0.0065	<0.010	0.016	730	690	66	<0.0050	<0.0050
SS05@11'	11'	10/28/2022	<0.0020	<0.0050	0.0065	<0.010	0.083	11	<50	<50	<0.0050	<0.0050
SS06@10'	10'	10/28/2022	<0.0020	<0.0050	0.0065	<0.010	1.7	610	480	<50	<0.0050	<0.0050
SS07@10.5'	10.5'	10/31/2022	<0.0020	<0.0050	0.0065	<0.010	<0.0038	1.3	<50	<50	<0.0050	<0.0050
SS08@10'	10'	10/31/2022	<0.0020	<0.0050	0.0065	<0.010	0.46	1,700	<50	<50	<0.0050	<0.0050
SS09@10'	10'	11/01/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS10@10'	10'	11/01/2022	<0.0020	<0.0050	<0.0050	<0.010	0.16	380	260	<50	<0.0050	<0.0050
SS12@8.5'	8.5'	11/01/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS13@8.5'	8.5'	11/01/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS14@10'	10'	11/01/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS16@10'	10'	11/02/2022	<0.0020	<0.0050	<0.0050	<0.010	0.43	1,300	480	<50	0.011	<0.0050
SS17@14'	14'	11/02/2022	<0.0020	<0.0050	0.17	<0.010	7.5	7,600	1,500	110	<0.0050	<0.0050
SS18@10'	10'	11/02/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS20@10'	10'	11/02/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS21@10'	10'	11/02/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS22@10.5'	10.5'	11/02/2022	<0.0020	<0.0050	<0.0050	<0.010	3.3	2,300	1,900	150	<0.0050	<0.0050
SS23@13'	13'	11/02/2022	<0.0020	<0.0050	<0.0050	<0.010	0.76	1,100	270	<50	<0.0050	<0.0050
SS24@11'	11'	11/03/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS25@8.5'	8.5'	11/03/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS26@10'	10'	11/03/2022	<0.0020	<0.0050	<0.0050	<0.010	0.94	1,800	540	68	<0.0050	<0.0050

**TABLE 2B**  
**CULVER 5-17 TANK BATTERY**  
**SOIL ANALYTICAL DATA - VOCs LEFT IN PLACE**  
**EXTRACTION OIL & GAS, INC.**



Soil Sample Location	Depth	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TVPH-GRO (mg/kg)	TEPH-DRO (mg/kg)	TEPH-ORO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
COGCC Organic Compounds in Soils <sup>(1)</sup>			0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
COGCC Organic Compounds in Soils <sup>(2)</sup>			1.2	490	5.8	58	2	500			30	27
SS27@13'	13'	11/03/2022	<0.0020	<0.0050	<0.0050	<0.010	0.16	5,900	1,800	190	<0.0050	<0.0050
SS28@10'	10'	11/03/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS29@10'	10'	11/03/2022	<0.0020	<0.0050	<0.0050	<0.010	0.52	2,100	1,000	78	<0.0050	<0.0050
SS30@13'	13'	11/03/2022	<0.0020	<0.0050	<0.0050	<0.010	0.077	2,500	820	<50	<0.0050	<0.0050
SS31@10'	10'	11/03/2022	<0.0020	<0.0050	<0.0050	<0.010	0.047	3,700	810	<50	<0.0050	<0.0050
SS32@10'	10'	11/07/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS33@10'	10'	11/07/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	210	260	<50	<0.0050	<0.0050
SS34@8.5'	8.5'	11/07/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS35@10'	10'	11/07/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	62	130	<50	<0.0050	<0.0050
SS36@8.5'	8.5'	11/07/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS37@8.5'	8.5'	11/07/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS38@10'	10'	11/07/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS39@11'	11'	11/07/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	4.1	<50	<50	<0.0050	<0.0050
SS40@8.5'	8.5'	11/08/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS41@11'	11'	11/08/2022	<0.0020	<0.0050	<0.0050	<0.010	0.056	13	94	<50	<0.0050	<0.0050
SS43@11'	11'	11/08/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	1.6	<50	<50	<0.0050	<0.0050
SS44@8.5'	8.5'	11/08/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS45@11'	11'	11/09/2022	<0.0020	<0.0050	<0.0050	<0.010	0.13	200	550	<50	<0.0050	<0.0050
SS46@8.5'	8.5'	11/09/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	2.5	<50	<50	<0.0050	<0.0050
SS47@12'	12'	11/09/2022	<0.0020	<0.0050	<0.0050	<0.010	0.099	280	270	<50	<0.0050	<0.0050
SS48@8.5'	8.5'	11/09/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	0.81	<50	<50	<0.0050	<0.0050
SS49@11'	11'	11/10/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS50@8.5'	8.5'	11/10/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS51@12'	12'	11/10/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050



**TABLE 2B**  
**CULVER 5-17 TANK BATTERY**  
**SOIL ANALYTICAL DATA - VOCs LEFT IN PLACE**  
**EXTRACTION OIL & GAS, INC.**

Soil Sample Location	Depth	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TVPH-GRO (mg/kg)	TEPH-DRO (mg/kg)	TEPH-ORO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
COGCC Organic Compounds in Soils <sup>(1)</sup>			0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
COGCC Organic Compounds in Soils <sup>(2)</sup>			1.2	490	5.8	58	2	500			30	27
SS52@8.5'	8.5'	11/10/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050

**Notes:**

VOCs = Volatile Organic Compounds

(1) Standards for soil are taken from COGCC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations (Effective January 15, 2021)

(2) Standards for soil are taken from COGCC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations (Effective January 15, 2021)

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

mg/kg = milligrams per kilogram

TVPH - GRO = Total Volatile Petroleum Hydrocarbons - Gasoline Range Organics

TEPH - DRO = Total Extractable Petroleum Hydrocarbons - Diesel Range Organics

TEPH - ORO = Total Extractable Petroleum Hydrocarbons - Oil Range Organics

1,2,4 - TMB = 1,2,4 - Trimethylbenzene

1,3,5 - TMB = 1,3,5 - Trimethylbenzene

**BOLD** = Analytical result is in exceedance of COGCC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations

**BOLD** = Analytical result is in exceedance of COGCC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations

10/29/20 [date] = Data collected by 3rd-party consultant(s)

**TABLE 3B**  
**CULVER 5-17 TANK BATTERY**  
**SOIL ANALYTICAL DATA - PAHS LEFT IN PLACE**  
**EXTRACTION OIL & GAS, INC.**



Soil Sample Location	Depth	Date	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)A (mg/kg)	Benzo(b)F (mg/kg)	Benzo(k)F (mg/kg)	Benzo(a)P (mg/kg)	Chrysene (mg/kg)	D (a,h) A (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	1,2,3-CD (mg/kg)	1-M (mg/kg)	2-M (mg/kg)	Pyrene (mg/kg)
COGCC Organic Compounds in Soils <sup>(1)</sup>			0.55	5.8	0.011	0.3	2.9	0.24	9	0.96	8.9	0.54	0.98	0.006	0.019	1.3
COGCC Organic Compounds in Soils <sup>(2)</sup>			360	1,800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
BH01@6'	6'	09/09/2022	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
BH04@6.5'	6.5'	09/09/2022	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS01@10'	10'	10/27/2022	<0.00500	0.0566	0.0340	0.0186	0.00744	0.0133	0.0561	<0.00500	0.157	0.0852	0.00603	0.133	<0.00500	0.153
SS03@10'	10'	10/27/2022	<0.00500	0.0321	0.0446	0.0261	0.0104	0.0203	0.0592	<0.00500	0.149	0.112	0.0105	0.0905	<0.00500	0.139
SS04@10'	10'	10/27/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS05@11'	11'	10/28/2022	<0.00500	<0.00500	0.0109	0.00537	<0.00500	<0.00500	0.0110	<0.00500	0.0386	0.0181	<0.00500	0.0785	0.174	0.0351
SS06@10'	10'	10/28/2022	<0.00500	0.104	0.164	0.118	0.0471	0.0932	0.186	0.00905	0.586	0.119	0.0478	2.33	0.834	0.489
SS07@10.5'	10.5'	10/31/2022	<0.00500	0.0558	0.0599	0.0458	0.0192	0.0353	0.100	<0.00500	0.311	0.101	0.0173	1.46	5.37	0.269
SS08@10'	10'	10/31/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS09@10'	10'	11/01/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS10@10'	10'	11/01/2022	<0.00500	0.00534	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0254	0.0159	<0.00500	0.0810	0.165	0.0202
SS11@9.5'	9.5'	11/01/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00648	<0.00500	<0.00500	0.0301	<0.00500	0.173	0.408	<0.00500
SS12@8.5'	8.5'	11/01/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS13@8.5'	8.5'	11/01/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS14@10'	10'	11/01/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS16@10'	10'	11/02/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0240	0.0570	<0.00500	0.0377	0.588	<0.00500	2.60	5.62	0.0339
SS17@14'	14'	11/02/2022	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	0.212	<0.0500	<0.0500	0.932	<0.0500	10.6	25.7	0.0798
SS18@10'	10'	11/02/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS20@10'	10'	11/02/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS21@10'	10'	11/02/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS22@10.5'	10.5'	11/02/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0455	<0.00500	<0.00500	0.0933	<0.00500	11.8	19.8	0.0130
SS23@13'	13'	11/02/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0342	<0.00500	0.0139	0.0919	<0.00500	3.76	6.16	0.0112
SS24@11'	11'	11/03/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS25@8.5'	8.5'	11/03/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS26@10'	10'	11/03/2022	<0.00500	<0.00500	0.0246	0.0246	0.00744	0.0154	0.0712	<0.00500	0.0816	0.103	<0.00500	2.53	6.75	0.0957
SS27@13'	13'	11/03/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0263	<0.00500	<0.00500	0.0453	<0.00500	1.30	3.62	0.00845

**TABLE 3B**  
**CULVER 5-17 TANK BATTERY**  
**SOIL ANALYTICAL DATA - PAHs LEFT IN PLACE**  
**EXTRACTION OIL & GAS, INC.**



Soil Sample Location	Depth	Date	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)A (mg/kg)	Benzo(b)F (mg/kg)	Benzo(k)F (mg/kg)	Benzo(a)P (mg/kg)	Chrysene (mg/kg)	D (a,h) A (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	1,2,3-CD (mg/kg)	1-M (mg/kg)	2-M (mg/kg)	Pyrene (mg/kg)
COGCC Organic Compounds in Soils <sup>(1)</sup>			0.55	5.8	0.011	0.3	2.9	0.24	9	0.96	8.9	0.54	0.98	0.006	0.019	1.3
COGCC Organic Compounds in Soils <sup>(2)</sup>			360	1,800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
SS28@10'	10'	11/03/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS29@10'	10'	11/03/2022	<0.00500	0.0966	0.0935	0.0602	0.0246	0.0480	0.104	<0.00500	0.556	0.108	0.0115	0.562	1.16	0.324
SS30@13'	13'	11/03/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0114	0.0478	<0.00500	<0.00500	0.0849	<0.00500	0.676	1.47	0.0191
SS31@10'	10'	11/03/2022	<0.00500	<0.00500	0.0997	0.0867	0.0330	0.0573	0.139	<0.00500	0.704	<0.00500	0.0143	1.29	2.84	0.461
SS32@10'	10'	11/07/2022	<0.00500	<0.00500	0.0214	0.0112	<0.00500	0.00828	0.0273	<0.00500	0.0747	0.0472	<0.00500	0.177	<0.00500	0.0762
SS33@10'	10'	11/07/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0396	<0.00500	<0.00500	0.0499	<0.00500	<0.00500	<0.00500	0.0143
SS34@8.5'	8.5'	11/07/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS35@10'	10'	11/07/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00733	<0.00500	<0.00500	0.0508	<0.00500	0.327	0.176	<0.00500
SS36@8.5'	8.5'	11/07/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS37@8.5'	8.5'	11/07/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS38@10'	10'	11/07/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS39@11'	11'	11/07/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0127	<0.00500	0.00656	0.0472	<0.00500	<0.00500	<0.00500	<0.00500
SS40@8.5'	8.5'	11/08/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS41@11'	11'	11/08/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS43@11'	11'	11/08/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS44@8.5'	8.5'	11/08/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS45@11'	11'	11/09/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00972	<0.00500	<0.00500	0.0560	<0.00500	0.701	1.26	<0.00500
SS46@8.5'	8.5'	11/09/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS47@11'	11'	11/09/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0150	<0.00500	<0.00500	0.0699	<0.00500	0.637	1.07	<0.00500
SS48@8.5'	8.5'	11/09/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS49@11'	11'	11/10/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS50@8.5'	8.5'	11/10/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS51@12'	12'	11/10/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS52@8.5'	8.5'	11/10/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

**Notes:**

PAHs = Polycyclic Aromatic Hydrocarbons

**TABLE 3B**  
**CULVER 5-17 TANK BATTERY**  
**SOIL ANALYTICAL DATA - PAHs LEFT IN PLACE**  
**EXTRACTION OIL & GAS, INC.**

Soil Sample Location	Depth	Date	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)A (mg/kg)	Benzo(b)F (mg/kg)	Benzo(k)F (mg/kg)	Benzo(a)P (mg/kg)	Chrysene (mg/kg)	D (a,h) A (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	1,2,3-CD (mg/kg)	1-M (mg/kg)	2-M (mg/kg)	Pyrene (mg/kg)
COGCC Organic Compounds in Soils <sup>(1)</sup>			0.55	5.8	0.011	0.3	2.9	0.24	9	0.96	8.9	0.54	0.98	0.006	0.019	1.3
COGCC Organic Compounds in Soils <sup>(2)</sup>			360	1,800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180

(1) Standards for soil are taken from COGCC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations (Effective January 15, 2021)

(2) Standards for soil are taken from COGCC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations (Effective January 15, 2021)

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

mg/kg = milligrams per kilogram

Benzo(a)A = Benzo(a)Anthracene

Benzo(b)F = Benzo(b)Fluoranthene

Benzo(k)F = Benzo(k)Fluoranthene

Benzo(a)P = Benzo(a)Pyrene

D (a,h) A = Dibenz(a,h)Anthracene

1,2,3-CD = Indeno(1,2,3-cd)Pyrene

1-M = 1-Methylnaphthalene

2-M = 2-Methylnaphthalene

**BOLD** = Analytical result is in exceedance of COGCC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations

**BOLD** = Analytical result is in exceedance of COGCC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations

10/29/20 [date] = Data collected by 3rd-party consultant(s)

**TABLE 4B**  
**CULVER 5-17 TANK BATTERY**  
**SOIL ANALYTICAL DATA - METALS LEFT IN PLACE**  
**EXTRACTION OIL & GAS, INC.**



Soil Sample Location	Depth	Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
COGCC Metals in Soils <sup>(1)</sup>			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
COGCC Metals in Soils <sup>(2)</sup>			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
BH01@6'	6'	09/09/2022	-	-	-	-	-	10.2	-	-	-	-
BH04@6.5'	6.5'	09/09/2022	-	-	-	-	-	<8.26	-	-	-	-
SS01@10'	10'	10/27/2022	-	-	-	-	-	3.53	-	-	-	-
SS03@10'	10'	10/27/2022	-	-	-	-	-	3.96	-	-	-	-
SS04@10'	10'	10/27/2022	-	-	-	-	-	3.11	-	-	-	-
SS05@11'	11'	10/28/2022	-	-	-	-	-	5.60	-	-	-	-
SS06@10'	10'	10/28/2022	-	-	-	-	-	2.58	-	-	-	-
SS07@10.5'	10.5'	10/31/2022	-	-	-	-	-	2.04	-	-	-	-
SS08@10'	10'	10/31/2022	-	-	-	-	-	4.38	-	-	-	-
SS09@10'	10'	11/01/2022	-	-	-	-	-	2.22	-	-	-	-
SS10@10'	10'	11/01/2022	-	-	-	-	-	3.08	-	-	-	-
SS11@9.5'	9.5'	11/01/2022	-	-	-	-	-	2.43	-	-	-	-
SS12@8.5'	8.5'	11/01/2022	-	-	-	-	-	9.32	-	-	-	-
SS13@8.5'	8.5'	11/01/2022	-	-	-	-	-	13.4	-	-	-	-
SS14@10'	10'	11/01/2022	-	-	-	-	-	2.62	-	-	-	-
SS16@10'	10'	11/02/2022	-	-	-	-	-	8.29	-	-	-	-
SS17@14'	14'	11/02/2022	-	-	-	-	-	4.17	-	-	-	-
SS18@10'	10'	11/02/2022	-	-	-	-	-	2.85	-	-	-	-
SS20@10'	10'	11/02/2022	-	-	-	-	-	3.46	-	-	-	-
SS21@10'	10'	11/02/2022	-	-	-	-	-	16.3	-	-	-	-
SS22@10.5'	10.5'	11/02/2022	-	-	-	-	-	8.25	-	-	-	-
SS23@13'	13'	11/02/2022	-	-	-	-	-	3.68	-	-	-	-
SS24@11'	11'	11/03/2022	-	-	-	-	-	4.52	-	-	-	-
SS25@8.5'	8.5'	11/03/2022	-	-	-	-	-	5.50	-	-	-	-

**TABLE 4B**  
**CULVER 5-17 TANK BATTERY**  
**SOIL ANALYTICAL DATA - METALS LEFT IN PLACE**  
**EXTRACTION OIL & GAS, INC.**



Soil Sample Location	Depth	Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
COGCC Metals in Soils <sup>(1)</sup>			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
COGCC Metals in Soils <sup>(2)</sup>			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
SS26@10'	10'	11/03/2022	-	-	-	-	-	3.44	-	-	-	-
SS27@13'	13'	11/03/2022	-	-	-	-	-	1.77	-	-	-	-
SS28@10'	10'	11/03/2022	-	-	-	-	-	7.99	-	-	-	-
SS29@10'	10'	11/03/2022	-	-	-	-	-	4.25	-	-	-	-
SS30@13'	13'	11/03/2022	-	-	-	-	-	2.14	-	-	-	-
SS31@10'	10'	11/03/2022	-	-	-	-	-	2.22	-	-	-	-
SS32@10'	10'	11/07/2022	-	-	-	-	-	7.12	-	-	-	-
SS33@10'	10'	11/07/2022	-	-	-	-	-	2.83	-	-	-	-
SS34@8.5'	8.5'	11/07/2022	-	-	-	-	-	11.5	-	-	-	-
SS35@10'	10'	11/07/2022	-	-	-	-	-	9.87	-	-	-	-
SS36@8.5'	8.5'	11/07/2022	-	-	-	-	-	6.54	-	-	-	-
SS37@8.5'	8.5'	11/07/2022	-	-	-	-	-	6.13	-	-	-	-
SS38@10'	10'	11/07/2022	-	-	-	-	-	10.9	-	-	-	-
SS39@11'	11'	11/07/2022	-	-	-	-	-	4.13	-	-	-	-
SS40@8.5'	8.5'	11/08/2022	-	-	-	-	-	12.5	-	-	-	-
SS41@11'	11'	11/08/2022	-	-	-	-	-	5.82	-	-	-	-
SS43@11'	11'	11/08/2022	-	-	-	-	-	2.74	-	-	-	-
SS44@8.5'	8.5'	11/08/2022	-	-	-	-	-	12.1	-	-	-	-
SS45@11'	11'	11/09/2022	-	-	-	-	-	8.04	-	-	-	-
SS46@8.5'	8.5'	11/09/2022	-	-	-	-	-	8.35	-	-	-	-
SS47@11'	11'	11/09/2022	-	-	-	-	-	8.68	-	-	-	-
SS48@8.5'	8.5'	11/09/2022	-	-	-	-	-	9.74	-	-	-	-
SS49@11'	11'	11/10/2022	-	-	-	-	-	5.88	-	-	-	-
SS50@8.5'	8.5'	11/10/2022	-	-	-	-	-	8.00	-	-	-	-

**TABLE 4B**  
**CULVER 5-17 TANK BATTERY**  
**SOIL ANALYTICAL DATA - METALS LEFT IN PLACE**  
**EXTRACTION OIL & GAS, INC.**



Soil Sample Location	Depth	Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
COGCC Metals in Soils <sup>(1)</sup>			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
COGCC Metals in Soils <sup>(2)</sup>			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
SS51@12'	12'	11/10/2022	-	-	-	-	-	8.70	-	-	-	-
SS52@8.5'	8.5'	11/10/2022	-	-	-	-	-	8.34	-	-	-	-
BACKGROUND												
BKG01@4"	4"	04/19/2022	3.28	206	0.0928	<2.5	6.53	11.1	8.13	0.284	0.0753	38.7
BG01@6.5'	6.5'	09/09/2022	-	-	-	-	-	11.6	-	-	-	-
BG02@6.5'	6.5'	09/09/2022	-	-	-	-	-	<8.78	-	-	-	-

**Notes:**

(1) Standards for soil are taken from COGCC Table 915-1: Metals in Soils - Protection of Groundwater Soil Screening Level Concentrations (Effective January 15, 2021)

(2) Standards for soil are taken from COGCC Table 915-1: Metals in Soils - Residential Soil Screening Level Concentrations (Effective January 15, 2021)

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory minimum detection limit

mg/kg = milligrams per kilogram

**BOLD** = Analytical result is in exceedance of COGCC Table 915-1: Metals in Soils - Protection of Groundwater Soil Screening Level Concentrations

**BOLD** = Analytical result is in exceedance of COGCC Table 915-1: Metals in Soils - Residential Soil Screening Level Concentrations

*Italics* = Laboratory minimum detection limit exceeds the COGCC Table 915-1 Standard

\* Result exceeded the COGCC Table 915-1 standard, but was within site-specific 1.25x background multiplier levels

10/29/20 [date] = Data collected by 3rd-party consultant(s)

- = Constituent not analyzed

**TABLE 5B**  
**CULVER 5-17 TANK BATTERY**  
**SOIL ANALYTICAL DATA - SOIL RECLAMATION LEFT IN PLACE**  
**EXTRACTION OIL & GAS, INC.**



Soil Sample Location	Depth	Date	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
<b>COGCC Soil Suitability for Reclamation<sup>(1)</sup></b>			<b>6 - 8.3</b>	<b>&lt; 6</b>	<b>&lt; 4</b>	<b>2</b>
BH01@6'	6'	09/09/2022	8.31*	-	-	-
BH04@6.5'	6.5'	09/09/2022	8.35	-	-	-
SS01@10'	10'	10/27/2022	8.07	-	-	-
SS03@10'	10'	10/27/2022	8.47	-	-	-
SS04@10'	10'	10/27/2022	8.29	-	-	-
SS05@11'	11'	10/28/2022	8.32	-	-	-
SS06@10'	10'	10/28/2022	8.35	-	-	-
SS07@10.5'	10.5'	10/31/2022	8.26	-	-	-
SS08@10'	10'	10/31/2022	9.06	-	-	-
SS9@10'	10'	11/01/2022	7.62	-	-	-
SS10@10'	10'	11/01/2022	8.45	-	-	-
SS11@9.5'	9.5'	11/01/2022	8.21	-	-	-
SS12@8.5'	8.5'	11/01/2022	8.30*	-	-	-
SS13@8.5'	8.5'	11/01/2022	7.92	-	-	-
SS14@10'	10'	11/01/2022	8.02	-	-	-
SS16@10'	10'	11/02/2022	8.26	-	-	-
SS17@14'	14'	11/02/2022	7.32	-	-	-
SS18@10'	10'	11/02/2022	8.35	-	-	-
SS20@10'	10'	11/02/2022	8.46	-	-	-
SS21@10'	10'	11/02/2022	7.94	-	-	-
SS22@10.5'	10.5'	11/02/2022	7.84	-	-	-
SS23@13'	13'	11/02/2022	8.42	-	-	-
SS24@11'	11'	11/03/2022	7.93	-	-	-
SS25@8.5'	8.5'	11/03/2022	8.24	-	-	-
SS26@10'	10'	11/03/2022	8.13	-	-	-
SS27@13'	13'	11/03/2022	8.11	-	-	-
SS28@10'	10'	11/03/2022	7.41	-	-	-
SS29@10'	10'	11/03/2022	9.05	-	-	-
SS30@13'	13'	11/03/2022	8.51	-	-	-
SS31@10'	10'	11/03/2022	8.56	-	-	-



**TABLE 5B**  
**CULVER 5-17 TANK BATTERY**  
**SOIL ANALYTICAL DATA - SOIL RECLAMATION LEFT IN PLACE**  
**EXTRACTION OIL & GAS, INC.**



Soil Sample Location	Depth	Date	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
<b>COGCC Soil Suitability for Reclamation<sup>(1)</sup></b>			<b>6 - 8.3</b>	<b>&lt; 6</b>	<b>&lt; 4</b>	<b>2</b>
SS32@10'	10'	11/07/2022	7.19	-	-	-
SS33@10'	10'	11/07/2022	8.05	-	-	-
SS34@8.5'	8.5'	11/07/2022	7.99	-	-	-
SS35@10'	10'	11/07/2022	7.54	-	-	-
SS36@8.5'	8.5'	11/07/2022	8.30*	-	-	-
SS37@8.5'	8.5'	11/07/2022	8.48	-	-	-
SS38@10'	10'	11/07/2022	8.30*	-	-	-
SS39@11'	11'	11/07/2022	8.58	-	-	-
SS40@8.5'	8.5'	11/08/2022	7.82	-	-	-
SS41@11'	11'	11/08/2022	8.31	-	-	-
SS43@11'	11'	11/08/2022	8.07	-	-	-
SS44@8.5'	8.5'	11/08/2022	6.44	-	-	-
SS45@11'	11'	11/09/2022	7.05	-	-	-
SS46@8.5'	8.5'	11/09/2022	8.27	-	-	-
SS47@11'	11'	11/09/2022	7.31	-	-	-
SS48@8.5'	8.5'	11/09/2022	8.15	-	-	-
SS49@11'	11'	11/10/2022	8.15	-	-	-
SS50@8.5'	8.5'	11/10/2022	8.09	-	-	-
SS51@12'	12'	11/10/2022	8.36	-	-	-
SS52@8.5'	8.5'	11/10/2022	8.06	-	-	-
<b>BACKGROUND</b>						
BKG01@4"	4"	04/19/2022	7.76	0.06	0.337	0.340
BG01@6.5'	6.5'	09/09/2022	8.31	-	-	-
BG02@6.5'	6.5'	09/09/2022	8.14	-	-	-

**Notes:**

(1) Standards for soil are taken from COGCC Table 915-1: Soil Suitability for Reclamation (Effective January 15, 2021)

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

mmhos/cm = millimhos per centimeter

mg/L = milligrams per liter

pH = Potential of Hydrogen

SAR = Sodium Adsorption Ratio

EC = Electrical Conductivity

**TABLE 5B**  
**CULVER 5-17 TANK BATTERY**  
**SOIL ANALYTICAL DATA - SOIL RECLAMATION LEFT IN PLACE**  
**EXTRACTION OIL & GAS, INC.**



Soil Sample Location	Depth	Date	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
<b>COGCC Soil Suitability for Reclamation<sup>(1)</sup></b>			<b>6 - 8.3</b>	<b>&lt; 6</b>	<b>&lt; 4</b>	<b>2</b>

**BOLD** = Analytical result is in exceedance of COGCC Table 915-1: Soil Suitability for Reclamation Concentrations

\* Result exceeded the COGCC Table 915-1 standard, but was within site-specific background concentrations

10/29/20 [date] = Data collected by 3rd-party consultant(s)

- = Constituent not analyzed

**ATTACHMENT A**

**LABORATORY ANALYTICAL DATA**



October 19, 2022

Tasman Geosciences

Sam Vogt

6855 West 119th Avenue

Broomfield CO 80020

**Project Name - Civitas - Culver Tank Battery**

**Project Number - [none]**

Attached are your analytical results for Civitas - Culver Tank Battery received by Origins Laboratory, Inc. October 06, 2022. This project is associated with Origins project number Y210134-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Culver Tank Battery

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-CS01	Y210134-01	Soil	October 6, 2022 12:46	10/06/2022 15:38
SP-CS02	Y210134-02	Soil	October 6, 2022 12:47	10/06/2022 15:38
SP-CS03	Y210134-03	Soil	October 6, 2022 12:51	10/06/2022 15:38
SP-CS04	Y210134-04	Soil	October 6, 2022 12:53	10/06/2022 15:38
SP-CS05	Y210134-05	Soil	October 6, 2022 12:54	10/06/2022 15:38
SP-CS06	Y210134-06	Soil	October 6, 2022 12:56	10/06/2022 15:38
SP-CS07	Y210134-07	Soil	October 6, 2022 12:59	10/06/2022 15:38
SP-CS08	Y210134-08	Soil	October 6, 2022 13:03	10/06/2022 15:38
SP-CS09	Y210134-09	Soil	October 6, 2022 13:04	10/06/2022 15:38

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Sam Vogt  
Project Number: [none]  
Project: Civitas - Culver Tank Battery

# ORIGINS

LABORATORY, INC

4210134

www.originslaboratory.com

page 1 of 1

Client: CIVITHS/Tasman

Address: 6855 W. 19th St

Broomfield CO

Telephone Number: 610-405-9078

Email Address: svogt@tasman-geo.com, jay@originslab.com



Project Manager: Sam Vogt, Jacob Evans

Project Name: Culver TB

Project Number: SK + DM

Samples Collected By: SK + DM

915 Table

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix				Analysis	Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa #	Other			
SP-C501	10-6-22	1246	1	X						X		X	TPH	1
SP-C502		1247								X		X	TMBS	2
SP-C503		1251								X		X	Naph.	3
SP-C504		1253								X		X	BTEX	4
SP-C505		1254								X		X		5
SP-C506		1256								X		X		6
SP-C507		1259								X		X		7
SP-C508		1303	V	V						X		X		8
SP-C509	V	1304	V	V						X		X		9
														10
Relinquished By: 	Date: 10-6-22	Time: 1538	Received By: 	Date: 10/06/22	Time: 1538	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard <input checked="" type="checkbox"/>								
Relinquished By:	Date:	Time:	Received By:	Date:	Time:									

Fax: 303.265.9645

Phone: 303.433.1322

Denver, CO 80211

1725 Elk Place

Temp Received: 8.9

Date Results Needed

Origins Laboratory, Inc.

Byron

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Culver Tank Battery

Origins Laboratory

F-012207-01-R1  
Effective Date: 01/09/12

## Sample Receipt Checklist

Origins Work Order: 4210134

Client: Tasman

Client Project ID: Culver TB

Checklist Completed by: TSH/DE

Shipped Via: HL  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 10/07/22

Airbill #: 7114

Matrix(s) Received: (Check all that apply): X Soil/Solid          Water          Other:         

Cooler Number/Temperature: 1, 80 °C          °C          °C (Describe)          °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		X		same day
Is there ice present (document if blue ice is used)?		X		
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact <sup>(1)</sup> ?	X			
Was adequate sample volume provided <sup>(1)</sup> ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		X		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	X			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	X			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	X			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)		X		
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) JP

Date/Time Reviewed 10/10/22

Origins Laboratory, Inc.

*J. Bynon*

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Culver Tank Battery

## SP-CS01

10/6/2022 12:46:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

## Origins Laboratory, Inc. Y210134-01 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2J0737	ZZZ	10/07/2022	10/08/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 86.9 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2J1012	HKS	10/10/2022	10/10/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Naphthalene	ND	0.00380	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4 113 % 70-130 " " "  
Surrogate: Toluene-d8 89.2 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Culver Tank Battery

## SP-CS02

10/6/2022 12:47:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y210134-02 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2J0737	ZZZ	10/07/2022	10/08/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 93.7 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2J1012	HKS	10/10/2022	10/10/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Naphthalene	ND	0.00380	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4 123 % 70-130 " " "  
Surrogate: Toluene-d8 100 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 109 % 70-130 " " "

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Culver Tank Battery

## SP-CS03

10/6/2022 12:51:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y210134-03 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2J0737	ZZZ	10/07/2022	10/08/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 96.3 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2J1012	HKS	10/10/2022	10/10/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Naphthalene	ND	0.00380	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "  
Surrogate: Toluene-d8 82.4 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 92.8 % 70-130 " " "

Origins Laboratory, Inc.



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Sam Vogt  
Project Number: [none]  
Project: Civitas - Culver Tank Battery

## SP-CS04

10/6/2022 12:53:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y210134-04 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2J0737	ZZZ	10/07/2022	10/08/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 92.8 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2J1012	HKS	10/10/2022	10/11/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Naphthalene	ND	0.00380	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "  
Surrogate: Toluene-d8 102 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 89.7 % 70-130 " " "

Origins Laboratory, Inc.



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6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Culver Tank Battery

## SP-CS05

10/6/2022 12:54:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y210134-05 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2J0737	ZZZ	10/07/2022	10/08/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 92.1 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2J1012	HKS	10/10/2022	10/11/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Naphthalene	ND	0.00380	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.5 % 70-130 " " "  
Surrogate: Toluene-d8 96.4 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 96.2 % 70-130 " " "

Origins Laboratory, Inc.



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6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Culver Tank Battery

## SP-CS06

10/6/2022 12:56:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y210134-06 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	117	25.0	mg/kg	1	B2J0737	ZZZ	10/07/2022	10/08/2022	
Residual Range Organics (C28-C40)	127	100	"	"	"	ZZZ	"	"	

Surrogate: o-Terphenyl 88.7 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2J1012	HKS	10/10/2022	10/11/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Naphthalene	ND	0.00380	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.0 % 70-130 " " "  
Surrogate: Toluene-d8 97.5 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 96.4 % 70-130 " " "

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6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Culver Tank Battery

## SP-CS07

10/6/2022 12:59:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y210134-07 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2J0737	ZZZ	10/07/2022	10/08/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 91.3 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2J1012	HKS	10/10/2022	10/11/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Naphthalene	ND	0.00380	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4 100 % 70-130 " " "  
Surrogate: Toluene-d8 103 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 90.4 % 70-130 " " "

Origins Laboratory, Inc.



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6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Culver Tank Battery

## SP-CS08

10/6/2022 1:03:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y210134-08 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2J0737	ZZZ	10/07/2022	10/08/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 88.4 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2J1012	HKS	10/10/2022	10/11/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Naphthalene	ND	0.00380	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4 96.9 % 70-130 " " "  
Surrogate: Toluene-d8 99.9 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 92.7 % 70-130 " " "

Origins Laboratory, Inc.



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6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Culver Tank Battery

## SP-CS09

10/6/2022 1:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y210134-09 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2J0737	ZZZ	10/07/2022	10/08/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 87.3 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2J1012	HKS	10/10/2022	10/11/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Naphthalene	ND	0.00380	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "  
Surrogate: Toluene-d8 101 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 90.8 % 70-130 " " "

Origins Laboratory, Inc.



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6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Culver Tank Battery

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2J0737 - EPA 3580										
Blank (B2J0737-BLK1)					Prepared: 10/07/2022 Analyzed: 10/08/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	24.9		98.5	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Culver Tank Battery

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2J0737 - EPA 3580

**LCS (B2J0737-BS1)**

Prepared: 10/07/2022 Analyzed: 10/08/2022

Diesel (C10-C28)	886	50.0	mg/kg	1000		88.6	70-130			
Residual Range Organics (C28-C40)	850	200	"	1000		85.0	70-130			
Surrogate: o-Terphenyl	48		"	49.8		95.8	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Culver Tank Battery

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2J0737 - EPA 3580**

Matrix Spike (B2J0737-MS1)		Source: Y210132-01			Prepared: 10/07/2022 Analyzed: 10/08/2022					
Diesel (C10-C28)	939	50.0	mg/kg	1000	ND	93.9	70-130			
Residual Range Organics (C28-C40)	849	200	"	1000	ND	84.9	70-130			
Surrogate: o-Terphenyl	48		"	49.8		96.6	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Culver Tank Battery

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2J0737 - EPA 3580

Matrix Spike Dup (B2J0737-MSD1)		Source: Y210132-01			Prepared: 10/07/2022 Analyzed: 10/08/2022					
Diesel (C10-C28)	924	50.0	mg/kg	1000	ND	92.4	70-130	1.63	35	
Residual Range Organics (C28-C40)	820	200	"	1000	ND	82.0	70-130	3.50	35	
Surrogate: o-Terphenyl	54		"	49.8		109	50-150			

Origins Laboratory, Inc.



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6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Culver Tank Battery

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2J1012 - EPA 5030 (soil)</b>										
<b>Blank (B2J1012-BLK1)</b>					Prepared: 10/10/2022 Analyzed: 10/10/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.1	70-130			

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6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Culver Tank Battery

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2J1012 - EPA 5030 (soil)</b>										
<b>LCS (B2J1012-BS1)</b>					Prepared: 10/10/2022 Analyzed: 10/10/2022					
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Benzene	0.103	0.00200	"	0.100		103	70-130			
Ethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Naphthalene	0.0848	0.00380	"	0.100		84.8	70-130			
Toluene	0.106	0.00200	"	0.100		106	70-130			
o-Xylene	0.101	0.00200	"	0.100		101	70-130			
m,p-Xylene	0.207	0.00400	"	0.200		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Culver Tank Battery

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2J1012 - EPA 5030 (soil)**

Matrix Spike (B2J1012-MS1)		Source: Y210132-03			Prepared: 10/10/2022 Analyzed: 10/10/2022					
1,2,4-Trimethylbenzene	0.114	0.00200	mg/kg	0.100	ND	114	70-130			
1,3,5-Trimethylbenzene	0.117	0.00200	"	0.100	ND	117	70-130			
Benzene	0.101	0.00200	"	0.100	ND	101	70-130			
Ethylbenzene	0.121	0.00200	"	0.100	ND	121	70-130			
Naphthalene	0.0866	0.00380	"	0.100	ND	86.6	70-130			
Toluene	0.108	0.00200	"	0.100	ND	108	70-130			
o-Xylene	0.117	0.00200	"	0.100	ND	117	70-130			
m,p-Xylene	0.242	0.00400	"	0.200	ND	121	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		87.3	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Culver Tank Battery

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2J1012 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B2J1012-MSD1)</b>		<b>Source: Y210132-03</b>			Prepared: 10/10/2022 Analyzed: 10/10/2022					
1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100	ND	111	70-130	2.64	20	
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100	ND	112	70-130	5.08	20	
Benzene	0.105	0.00200	"	0.100	ND	105	70-130	3.92	20	
Ethylbenzene	0.114	0.00200	"	0.100	ND	114	70-130	5.76	20	
Naphthalene	0.0940	0.00380	"	0.100	ND	94.0	70-130	8.17	20	
Toluene	0.110	0.00200	"	0.100	ND	110	70-130	2.04	20	
o-Xylene	0.112	0.00200	"	0.100	ND	112	70-130	4.68	20	
m,p-Xylene	0.229	0.00400	"	0.200	ND	114	70-130	5.59	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		85.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Sam Vogt  
Project Number: [none]  
Project: Civitas - Culver Tank Battery

### Notes and Definitions

U Sample is Non-Detect.

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 02, 2022

Sam Vogt

Civitas Resources

650 Southgate Drive

Windsor, CO 80550

RE: Culver MC 5-17

Work Order #2210525

Enclosed are the results of analyses for samples received by Summit Scientific on 10/27/22 17:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury  
President



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 08:41

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@10'	2210525-01	Soil	10/27/22 09:45	10/27/22 17:10
SS02@7'	2210525-02	Soil	10/27/22 10:00	10/27/22 17:10
SS03@10'	2210525-03	Soil	10/27/22 10:37	10/27/22 17:10
SS04@10'	2210525-04	Soil	10/27/22 11:26	10/27/22 17:10

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

# Summit Scientific

Page 1 of 1

Project Manager: David Vayt, Jacob Evans  
E-Mail: Svogto@tasman-geo.com, Jevans@civirsources.com  
Project Name: Culver MC 5-17  
Project Number: \_\_\_\_\_

[www.s2scientific.com](http://www.s2scientific.com)



S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order#

2210525

Client: Cintas/tasmanClient Project ID: Culver MC 5-17

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other

Airbill #:

☐ ☐ ☐ ☐ ☐

Matrix (Check all that apply)

Air

☐

Soil/Solid

☒

Water

☐

Other

☐

Temp (°C)

8.4

Thermometer #

1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	artice
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Same day
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

Custodian Printed Name

10-27-22  
Date/Time



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 08:41

**SS01@10'**  
**2210525-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/27/22 09:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFJ0781	10/27/22	10/27/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/27/22 09:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		113 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/27/22 09:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0782	10/27/22	10/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/27/22 09:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		46.9 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 08:41

**SS01@10'**  
**2210525-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/27/22 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0786	10/28/22	10/29/22	EPA 8270D SIM	
<b>Anthracene</b>	<b>0.0566</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>0.0340</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (a) pyrene</b>	<b>0.0133</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (b) fluoranthene</b>	<b>0.0186</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (k) fluoranthene</b>	<b>0.00744</b>	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0561</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.157</b>	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.0852</b>	0.00500	"	"	"	"	"	"	
<b>Indeno (1,2,3-cd) pyrene</b>	<b>0.00603</b>	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.153</b>	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.133</b>	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/27/22 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		70.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		92.0 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B**

Date Sampled: **10/27/22 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Lead</b>	<b>3.53</b>	0.200	mg/kg dry	1	BFJ0789	10/28/22	10/28/22	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/27/22 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>% Solids</b>	<b>81.7</b>		%	1	BFJ0797	10/28/22	10/28/22	Calculation	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 08:41

**SS01@10'**  
**2210525-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/27/22 09:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>pH</b>	<b>8.07</b>			pH Units	1	BFJ0801	10/28/22	10/28/22	EPA 9045D	

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 08:41

**SS02@7'**  
**2210525-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/27/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0781	10/27/22	10/27/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	<b>0.035</b>	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	<b>380</b>	5.0	"	10	"	"	"	"	

Date Sampled: **10/27/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		91.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		218 %	50-150		"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/27/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	<b>510</b>	50	mg/kg	1	BFJ0782	10/27/22	10/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/27/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		61.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 08:41

**SS02@7'**  
**2210525-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/27/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0786	10/28/22	10/29/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>0.0508</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (a) pyrene</b>	<b>0.0272</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (b) fluoranthene</b>	<b>0.0343</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (k) fluoranthene</b>	<b>0.0143</b>	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0997</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.162</b>	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.190</b>	0.00500	"	"	"	"	"	"	
<b>Indeno (1,2,3-cd) pyrene</b>	<b>0.0136</b>	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.167</b>	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.0991</b>	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/27/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		88.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		102 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B**

Date Sampled: **10/27/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Lead</b>	<b>5.63</b>	0.200	mg/kg dry	1	BFJ0789	10/28/22	10/28/22	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/27/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>% Solids</b>	<b>81.8</b>		%	1	BFJ0797	10/28/22	10/28/22	Calculation	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 08:41

**SS02@7'**  
**2210525-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/27/22 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>pH</b>	<b>9.21</b>			pH Units	1	BFJ0801	10/28/22	10/28/22	EPA 9045D	

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 08:41

**SS03@10'**  
**2210525-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/27/22 10:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0781	10/27/22	10/27/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	<b>0.12</b>	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	<b>260</b>	5.0	"	10	"	"	"	"	

Date Sampled: **10/27/22 10:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		121 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		72.1 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		186 %	50-150		"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/27/22 10:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	<b>190</b>	50	mg/kg	1	BFJ0782	10/27/22	10/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/27/22 10:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		72.9 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 08:41

**SS03@10'**  
**2210525-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/27/22 10:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0786	10/28/22	10/29/22	EPA 8270D SIM	
<b>Anthracene</b>	<b>0.0321</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>0.0446</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (a) pyrene</b>	<b>0.0203</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (b) fluoranthene</b>	<b>0.0261</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (k) fluoranthene</b>	<b>0.0104</b>	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0592</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.149</b>	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.112</b>	0.00500	"	"	"	"	"	"	
<b>Indeno (1,2,3-cd) pyrene</b>	<b>0.0105</b>	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.139</b>	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.0905</b>	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/27/22 10:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		69.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		80.5 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B**

Date Sampled: **10/27/22 10:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Lead</b>	<b>3.96</b>	0.200	mg/kg dry	1	BFJ0789	10/28/22	10/28/22	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/27/22 10:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>% Solids</b>	<b>82.7</b>		%	1	BFJ0797	10/28/22	10/28/22	Calculation	

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 08:41

**SS03@10'**  
**2210525-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/27/22 10:37**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>pH</b>	<b>8.47</b>			pH Units	1	BFJ0801	10/28/22	10/28/22	EPA 9045D	

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Windsor CO, 80550

Project: Culver MC 5-17

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 08:41

**SS04@10'**  
**2210525-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/27/22 11:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0781	10/27/22	10/27/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.0065</b>	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.016</b>	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>730</b>	5.0	"	10	"	"	"	"	E

Date Sampled: **10/27/22 11:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		128 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		71.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		319 %	50-150		"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/27/22 11:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>690</b>	50	mg/kg	1	BFJ0782	10/27/22	10/27/22	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>66</b>	50	"	"	"	"	"	"	

Date Sampled: **10/27/22 11:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		78.3 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Windsor CO, 80550

Project: Culver MC 5-17

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 08:41

**SS04@10'**  
**2210525-04 (Soil)**

### Summit Scientific

#### PAH by EPA Method 8270D SIM

Date Sampled: **10/27/22 11:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0786	10/28/22	10/29/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/27/22 11:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		71.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		89.1 %	40-150		"	"	"	"	

#### Total Metals by EPA 6020B

Date Sampled: **10/27/22 11:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	3.11	0.200	mg/kg dry	1	BFJ0789	10/28/22	10/28/22	EPA 6020B	

#### Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/27/22 11:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Windsor CO, 80550

Project: Culver MC 5-17

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 08:41

**SS04@10'**  
**2210525-04 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	83.9	%	1	BFJ0797	10/28/22	10/28/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/27/22 11:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.29		pH Units	1	BFJ0801	10/28/22	10/28/22	EPA 9045D	

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Project: Culver MC 5-17

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 08:41

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFJ0781 - EPA 5030 Soil MS

##### Blank (BFJ0781-BLK1)

Prepared & Analyzed: 10/27/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0415		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0451		"	0.0400		113	50-150			
Surrogate: 4-Bromofluorobenzene	0.0447		"	0.0400		112	50-150			

##### LCS (BFJ0781-BS1)

Prepared & Analyzed: 10/27/22

Benzene	0.0805	0.0020	mg/kg	0.100		80.5	70-130			
Toluene	0.0715	0.0050	"	0.100		71.5	70-130			
Ethylbenzene	0.0730	0.0050	"	0.100		73.0	70-130			
m,p-Xylene	0.145	0.010	"	0.200		72.6	70-130			
o-Xylene	0.0768	0.0050	"	0.100		76.8	70-130			
1,2,4-Trimethylbenzene	0.0851	0.0050	"	0.100		85.1	70-130			
1,3,5-Trimethylbenzene	0.0818	0.0050	"	0.100		81.8	70-130			
Naphthalene	0.109	0.0038	"	0.100		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0399		"	0.0400		99.8	50-150			
Surrogate: Toluene-d8	0.0447		"	0.0400		112	50-150			
Surrogate: 4-Bromofluorobenzene	0.0442		"	0.0400		111	50-150			

##### Matrix Spike (BFJ0781-MS1)

Source: 2210494-02

Prepared: 10/27/22 Analyzed: 10/28/22

Benzene	0.0770	0.0020	mg/kg	0.100	ND	77.0	70-130			
Toluene	0.0711	0.0050	"	0.100	ND	71.1	70-130			
Ethylbenzene	0.0757	0.0050	"	0.100	ND	75.7	70-130			
m,p-Xylene	0.149	0.010	"	0.200	ND	74.6	70-130			
o-Xylene	0.0785	0.0050	"	0.100	ND	78.5	70-130			
1,2,4-Trimethylbenzene	0.0877	0.0050	"	0.100	ND	87.7	70-130			
1,3,5-Trimethylbenzene	0.0850	0.0050	"	0.100	ND	85.0	70-130			
Naphthalene	0.102	0.0038	"	0.100	ND	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0415		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0442		"	0.0400		111	50-150			
Surrogate: 4-Bromofluorobenzene	0.0438		"	0.0400		110	50-150			

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Project: Culver MC 5-17

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 08:41

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0781 - EPA 5030 Soil MS**

**Matrix Spike Dup (BFJ0781-MSD1)**

**Source: 2210494-02**

Prepared: 10/27/22 Analyzed: 10/28/22

Benzene	0.0814	0.0020	mg/kg	0.100	ND	81.4	70-130	5.65	30	
Toluene	0.0901	0.0050	"	0.100	ND	90.1	70-130	23.6	30	
Ethylbenzene	0.0794	0.0050	"	0.100	ND	79.4	70-130	4.80	30	
m,p-Xylene	0.166	0.010	"	0.200	ND	83.0	70-130	10.7	30	
o-Xylene	0.0827	0.0050	"	0.100	ND	82.7	70-130	5.14	30	
1,2,4-Trimethylbenzene	0.0797	0.0050	"	0.100	ND	79.7	70-130	9.57	30	
1,3,5-Trimethylbenzene	0.0930	0.0050	"	0.100	ND	93.0	70-130	9.00	30	
Naphthalene	0.0898	0.0038	"	0.100	ND	89.8	70-130	12.3	30	
Surrogate: 1,2-Dichloroethane-d4	0.0416		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0557		"	0.0400		139	50-150			
Surrogate: 4-Bromofluorobenzene	0.0473		"	0.0400		118	50-150			

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650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 08:41

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0782 - EPA 3550A**

**Blank (BFJ0782-BLK1)**

Prepared & Analyzed: 10/27/22

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	8.64		"	12.5		69.2	30-150			

**LCS (BFJ0782-BS1)**

Prepared & Analyzed: 10/27/22

C10-C28 (DRO)	488	50	mg/kg	500		97.5	70-130			
Surrogate: o-Terphenyl	10.2		"	12.5		81.7	30-150			

**Matrix Spike (BFJ0782-MS1)**

Source: 2210494-02

Prepared & Analyzed: 10/27/22

C10-C28 (DRO)	412	50	mg/kg	500	31.1	76.3	70-130			
Surrogate: o-Terphenyl	7.68		"	12.5		61.4	30-150			

**Matrix Spike Dup (BFJ0782-MSD1)**

Source: 2210494-02

Prepared & Analyzed: 10/27/22

C10-C28 (DRO)	493	50	mg/kg	500	31.1	92.3	70-130	17.7	20	
Surrogate: o-Terphenyl	8.83		"	12.5		70.6	30-150			

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Project: Culver MC 5-17

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 08:41

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

Reporting				Spike	Source	%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFJ0786 - EPA 5030 Soil MS

##### Blank (BFJ0786-BLK1)

Prepared & Analyzed: 10/28/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0235		"	0.0333		70.4	40-150			
Surrogate: Fluoranthene-d10	0.0296		"	0.0333		88.9	40-150			

##### LCS (BFJ0786-BS1)

Prepared & Analyzed: 10/28/22

Acenaphthene	0.0349	0.00500	mg/kg	0.0333		105	31-137			
Anthracene	0.0358	0.00500	"	0.0333		107	30-120			
Benzo (a) anthracene	0.0320	0.00500	"	0.0333		95.9	30-120			
Benzo (a) pyrene	0.0308	0.00500	"	0.0333		92.5	30-120			
Benzo (b) fluoranthene	0.0299	0.00500	"	0.0333		89.7	30-120			
Benzo (k) fluoranthene	0.0302	0.00500	"	0.0333		90.6	30-120			
Chrysene	0.0324	0.00500	"	0.0333		97.3	30-120			
Dibenz (a,h) anthracene	0.0285	0.00500	"	0.0333		85.6	30-120			
Fluoranthene	0.0336	0.00500	"	0.0333		101	30-120			
Fluorene	0.0342	0.00500	"	0.0333		103	30-120			
Indeno (1,2,3-cd) pyrene	0.0289	0.00500	"	0.0333		86.6	30-120			
Pyrene	0.0321	0.00500	"	0.0333		96.2	35-142			
1-Methylnaphthalene	0.0316	0.00500	"	0.0333		94.7	35-142			
2-Methylnaphthalene	0.0271	0.00500	"	0.0333		81.3	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0304		"	0.0333		91.1	40-150			
Surrogate: Fluoranthene-d10	0.0355		"	0.0333		107	40-150			

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650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 08:41

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

Analyte	Reporting			Spike Level	Source		%REC		RPD	
	Result	Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFJ0786 - EPA 5030 Soil MS

##### Matrix Spike (BFJ0786-MS1)

Source: 2210442-01

Prepared & Analyzed: 10/28/22

Acenaphthene	0.0225	0.00500	mg/kg	0.0333	ND	67.4	31-137		
Anthracene	0.0222	0.00500	"	0.0333	ND	66.7	30-120		
Benzo (a) anthracene	0.0187	0.00500	"	0.0333	ND	56.1	30-120		
Benzo (a) pyrene	0.0170	0.00500	"	0.0333	ND	51.0	30-120		
Benzo (b) fluoranthene	0.0168	0.00500	"	0.0333	ND	50.4	30-120		
Benzo (k) fluoranthene	0.0173	0.00500	"	0.0333	ND	52.0	30-120		
Chrysene	0.0189	0.00500	"	0.0333	ND	56.7	30-120		
Dibenz (a,h) anthracene	0.0155	0.00500	"	0.0333	ND	46.5	30-120		
Fluoranthene	0.0220	0.00500	"	0.0333	ND	66.0	30-120		
Fluorene	0.0222	0.00500	"	0.0333	ND	66.6	30-120		
Indeno (1,2,3-cd) pyrene	0.0158	0.00500	"	0.0333	ND	47.3	30-120		
Pyrene	0.0190	0.00500	"	0.0333	ND	56.8	35-142		
1-Methylnaphthalene	0.0193	0.00500	"	0.0333	ND	58.0	15-130		
2-Methylnaphthalene	0.0206	0.00500	"	0.0333	ND	61.9	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0174		"	0.0333		52.1	40-150		
Surrogate: Fluoranthene-d10	0.0222		"	0.0333		66.5	40-150		

##### Matrix Spike Dup (BFJ0786-MSD1)

Source: 2210442-01

Prepared & Analyzed: 10/28/22

Acenaphthene	0.0224	0.00500	mg/kg	0.0333	ND	67.2	31-137	0.244	30
Anthracene	0.0231	0.00500	"	0.0333	ND	69.4	30-120	3.89	30
Benzo (a) anthracene	0.0208	0.00500	"	0.0333	ND	62.3	30-120	10.5	30
Benzo (a) pyrene	0.0191	0.00500	"	0.0333	ND	57.4	30-120	11.8	30
Benzo (b) fluoranthene	0.0187	0.00500	"	0.0333	ND	56.0	30-120	10.5	30
Benzo (k) fluoranthene	0.0192	0.00500	"	0.0333	ND	57.6	30-120	10.2	30
Chrysene	0.0208	0.00500	"	0.0333	ND	62.4	30-120	9.53	30
Dibenz (a,h) anthracene	0.0173	0.00500	"	0.0333	ND	52.0	30-120	11.1	30
Fluoranthene	0.0226	0.00500	"	0.0333	ND	67.9	30-120	2.84	30
Fluorene	0.0224	0.00500	"	0.0333	ND	67.2	30-120	0.767	30
Indeno (1,2,3-cd) pyrene	0.0177	0.00500	"	0.0333	ND	53.2	30-120	11.7	30
Pyrene	0.0201	0.00500	"	0.0333	ND	60.4	35-142	5.99	30
1-Methylnaphthalene	0.0206	0.00500	"	0.0333	ND	61.8	15-130	6.37	50
2-Methylnaphthalene	0.0229	0.00500	"	0.0333	ND	68.7	15-130	10.4	50
Surrogate: 2-Methylnaphthalene-d10	0.0188		"	0.0333		56.3	40-150		
Surrogate: Fluoranthene-d10	0.0230		"	0.0333		68.9	40-150		

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 08:41

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0789 - EPA 3050B**

**Blank (BFJ0789-BLK1)**

Prepared & Analyzed: 10/28/22

Lead ND 0.200 mg/kg wet

**LCS (BFJ0789-BS1)**

Prepared & Analyzed: 10/28/22

Lead 22.4 0.200 mg/kg wet 20.0 112 80-120

**Duplicate (BFJ0789-DUP1)**

**Source: 2210448-08**

Prepared & Analyzed: 10/28/22

Lead 6.56 0.200 mg/kg dry 6.62 0.813 20

**Matrix Spike (BFJ0789-MS1)**

**Source: 2210448-08**

Prepared & Analyzed: 10/28/22

Lead 20.0 0.200 mg/kg dry 22.7 6.62 58.7 75-125 QM-05

**Matrix Spike Dup (BFJ0789-MSD1)**

**Source: 2210448-08**

Prepared & Analyzed: 10/28/22

Lead 19.7 0.200 mg/kg dry 22.7 6.62 57.6 75-125 1.27 25 QM-05

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 08:41

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0797 - General Preparation**

**Duplicate (BFJ0797-DUP1)**

**Source: 2210497-01**

**Prepared & Analyzed: 10/28/22**

% Solids	96.4	%		95.3		1.22	20
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 08:41

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0801 - General Preparation**

**LCS (BFJ0801-BS1)**

Prepared & Analyzed: 10/28/22

pH	9.18	pH Units	9.18	100	95-105
----	------	----------	------	-----	--------

**Duplicate (BFJ0801-DUP1)**

Source: 2210525-01

Prepared & Analyzed: 10/28/22

pH	8.01	pH Units	8.07	0.746	20
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 08:41

### Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 01, 2022

Sam Vogt

Civitas Resources

650 Southgate Drive

Windsor, CO 80550

RE: Culver MC 5-17 Tank Battery

Work Order #2210550

Enclosed are the results of analyses for samples received by Summit Scientific on 10/28/22 17:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury  
President



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/01/22 16:22

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS05@11'	2210550-01	Soil	10/28/22 09:58	10/28/22 17:20
SS06@10'	2210550-02	Soil	10/28/22 12:50	10/28/22 17:20

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

# Summit Scientific

2210550

741 Corporate Circle Suite I ♦ Golden, Colorado 80401  
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client: Civitas Tasman  
Address: 6855 N. 119th Ave.  
City/State/Zip: Broomfield, CO 80020  
Phone: 60-465-9678 Fax:   
Sampler Name: DH

Project Manager: Sam Vogt, Jacob Evans  
E-Mail: svogt@tasman-geo.com, j.evans@civitasources.com  
Project Name: Culver MC 5-17 Tank Battery  
Project Number:

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analyze For:							Special Instructions	
				HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	BTEX	Naph	TMBs	TPH	PAHs	Lead		pH*
SS05e11'	10.28.22	9:58	2			X			X				X	X	X	X	X	X	*Sat. Paste
SS06e10'	↓	12:50	↓			↓			↓				X	X	X	X	X		
<del>SS05e11'</del> DH																			
<del>SS06e10'</del> DH																			

Relinquished by: <u>[Signature]</u>	Date/Time: <u>10.28.22 13:51</u>	Received by: <u>Tasman Lockbox</u>	Date/Time: <u>10.28.22 13:51</u>	Turn Around Time (Check)	Notes:
Relinquished by: <u>Tasman Lockbox</u>	Date/Time: <u>10.28.22 1720</u>	Received by: <u>[Signature]</u>	Date/Time: <u>10.28.22 1720</u>	Same Day <input checked="" type="checkbox"/> 72 Hours <input type="checkbox"/>	
				24 Hours <input type="checkbox"/> Standard <input type="checkbox"/>	
Relinquished by: <u>Tasman Lockbox</u>	Date/Time: <u>10.28.22 1720</u>	Received in Lab by: <u>[Signature]</u>	Date/Time: <u>10.28.22 1720</u>	Sample Integrity:	
				Temperature Upon Receipt: <u>01.4</u>	
				Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

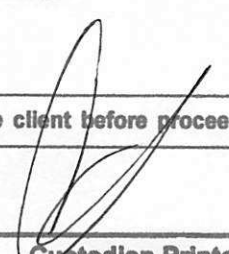
S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2210550Client: Cintas/Tasman Client Project ID: Culver MC 5-17 Tank BatteryShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: \_\_\_\_\_

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	-------------------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 9.4 Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ice
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Same day
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				
<div style="text-align: center;">             _____            Custodian Printed Name         </div> <div style="text-align: center;"> <u>10-28-28</u>            _____            Date/Time         </div>				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/01/22 16:22

**SS05@11'**  
**2210550-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/28/22 09:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0823	10/28/22	10/29/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.083</b>	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>11</b>	0.50	"	"	"	"	"	"	

Date Sampled: **10/28/22 09:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		90.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		112 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		129 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/28/22 09:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0824	10/28/22	10/29/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/28/22 09:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		81.5 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/01/22 16:22

**SS05@11'**  
**2210550-01 (Soil)**

### Summit Scientific

#### PAH by EPA Method 8270D SIM

Date Sampled: **10/28/22 09:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0831	10/31/22	11/01/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>0.0109</b>	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
<b>Benzo (b) fluoranthene</b>	<b>0.00537</b>	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0110</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.0386</b>	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.0181</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.0351</b>	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.0785</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.174</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **10/28/22 09:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		65.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		84.7 %	40-150		"	"	"	"	

#### Total Metals by EPA 6020B

Date Sampled: **10/28/22 09:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Lead</b>	<b>5.60</b>	0.200	mg/kg dry	1	BFJ0847	10/31/22	10/31/22	EPA 6020B	

#### Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/28/22 09:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/01/22 16:22

**SS05@11'**  
**2210550-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	76.9	%	1	BFJ0845	10/31/22	10/31/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/28/22 09:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.32		pH Units	1	BFJ0834	10/31/22	10/31/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/01/22 16:22

**SS06@10'**  
**2210550-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/28/22 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0823	10/28/22	10/29/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	1.7	0.038	"	10	"	"	"	"	
Gasoline Range Hydrocarbons	610	5.0	"	"	"	"	"	"	

Date Sampled: **10/28/22 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		116 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		61.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		287 %	50-150		"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/28/22 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	480	50	mg/kg	1	BFJ0824	10/28/22	10/29/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/28/22 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		76.7 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/01/22 16:22

**SS06@10'**  
**2210550-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/28/22 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0831	10/31/22	11/01/22	EPA 8270D SIM	
<b>Anthracene</b>	<b>0.104</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>0.164</b>	0.100	"	20	"	"	11/01/22	"	
<b>Benzo (a) pyrene</b>	<b>0.0932</b>	0.00500	"	1	"	"	11/01/22	"	
<b>Benzo (b) fluoranthene</b>	<b>0.118</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (k) fluoranthene</b>	<b>0.0471</b>	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.186</b>	0.100	"	20	"	"	11/01/22	"	
<b>Dibenz (a,h) anthracene</b>	<b>0.00905</b>	0.00500	"	1	"	"	11/01/22	"	
<b>Fluoranthene</b>	<b>0.586</b>	0.100	"	20	"	"	11/01/22	"	
<b>Fluorene</b>	<b>0.119</b>	0.00500	"	1	"	"	11/01/22	"	
<b>Indeno (1,2,3-cd) pyrene</b>	<b>0.0478</b>	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.489</b>	0.100	"	20	"	"	11/01/22	"	
<b>1-Methylnaphthalene</b>	<b>2.33</b>	0.100	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.834</b>	0.100	"	"	"	"	"	"	

Date Sampled: **10/28/22 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		104 %	40-150		"	"	11/01/22	"	
Surrogate: Fluoranthene-d10		110 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B**

Date Sampled: **10/28/22 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Lead</b>	<b>2.58</b>	0.200	mg/kg dry	1	BFJ0847	10/31/22	10/31/22	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/28/22 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>% Solids</b>	<b>80.1</b>		%	1	BFJ0845	10/31/22	10/31/22	Calculation	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/01/22 16:22

**SS06@10'**  
**2210550-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/28/22 12:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>pH</b>	<b>8.35</b>			pH Units	1	BFJ0834	10/31/22	10/31/22	EPA 9045D	

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/01/22 16:22

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFJ0823 - EPA 5030 Soil MS

##### Blank (BFJ0823-BLK1)

Prepared: 10/28/22 Analyzed: 10/29/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0406		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0443		"	0.0400		111	50-150			
Surrogate: 4-Bromofluorobenzene	0.0436		"	0.0400		109	50-150			

##### LCS (BFJ0823-BS1)

Prepared: 10/28/22 Analyzed: 10/29/22

Benzene	0.0826	0.0020	mg/kg	0.100		82.6	70-130			
Toluene	0.0808	0.0050	"	0.100		80.8	70-130			
Ethylbenzene	0.0763	0.0050	"	0.100		76.3	70-130			
m,p-Xylene	0.151	0.010	"	0.200		75.5	70-130			
o-Xylene	0.0761	0.0050	"	0.100		76.1	70-130			
1,2,4-Trimethylbenzene	0.0847	0.0050	"	0.100		84.7	70-130			
1,3,5-Trimethylbenzene	0.0794	0.0050	"	0.100		79.4	70-130			
Naphthalene	0.105	0.0038	"	0.100		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0414		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0469		"	0.0400		117	50-150			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		100	50-150			

##### Matrix Spike (BFJ0823-MS1)

Source: 2210538-01

Prepared: 10/28/22 Analyzed: 10/29/22

Benzene	0.0810	0.0020	mg/kg	0.100	ND	81.0	70-130			
Toluene	0.0813	0.0050	"	0.100	ND	81.3	70-130			
Ethylbenzene	0.0768	0.0050	"	0.100	ND	76.8	70-130			
m,p-Xylene	0.156	0.010	"	0.200	ND	78.2	70-130			
o-Xylene	0.0806	0.0050	"	0.100	ND	80.6	70-130			
1,2,4-Trimethylbenzene	0.0896	0.0050	"	0.100	ND	89.6	70-130			
1,3,5-Trimethylbenzene	0.0845	0.0050	"	0.100	ND	84.5	70-130			
Naphthalene	0.104	0.0038	"	0.100	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0431		"	0.0400		108	50-150			
Surrogate: Toluene-d8	0.0492		"	0.0400		123	50-150			
Surrogate: 4-Bromofluorobenzene	0.0415		"	0.0400		104	50-150			

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/01/22 16:22

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFJ0823 - EPA 5030 Soil MS

Matrix Spike Dup (BFJ0823-MSD1)	Source: 2210538-01			Prepared: 10/28/22 Analyzed: 10/29/22						
Benzene	0.0828	0.0020	mg/kg	0.100	ND	82.8	70-130	2.16	30	
Toluene	0.0802	0.0050	"	0.100	ND	80.2	70-130	1.37	30	
Ethylbenzene	0.0759	0.0050	"	0.100	ND	75.9	70-130	1.22	30	
m,p-Xylene	0.155	0.010	"	0.200	ND	77.4	70-130	1.06	30	
o-Xylene	0.0784	0.0050	"	0.100	ND	78.4	70-130	2.76	30	
1,2,4-Trimethylbenzene	0.0895	0.0050	"	0.100	ND	89.5	70-130	0.100	30	
1,3,5-Trimethylbenzene	0.0833	0.0050	"	0.100	ND	83.3	70-130	1.36	30	
Naphthalene	0.112	0.0038	"	0.100	ND	112	70-130	7.67	30	
Surrogate: 1,2-Dichloroethane-d4	0.0421		"	0.0400		105	50-150			
Surrogate: Toluene-d8	0.0491		"	0.0400		123	50-150			
Surrogate: 4-Bromofluorobenzene	0.0419		"	0.0400		105	50-150			

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/01/22 16:22

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0824 - EPA 3550A**

**Blank (BFJ0824-BLK1)**

Prepared: 10/28/22 Analyzed: 10/29/22

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	10.1		"	12.5		80.6	30-150			

**LCS (BFJ0824-BS1)**

Prepared: 10/28/22 Analyzed: 10/29/22

C10-C28 (DRO)	472	50	mg/kg	500		94.3	70-130			
Surrogate: o-Terphenyl	11.5		"	12.5		91.7	30-150			

**Matrix Spike (BFJ0824-MS1)**

**Source: 2210538-01**

Prepared: 10/28/22 Analyzed: 10/29/22

C10-C28 (DRO)	460	50	mg/kg	500	26.8	86.7	70-130			
Surrogate: o-Terphenyl	11.5		"	12.5		92.0	30-150			

**Matrix Spike Dup (BFJ0824-MSD1)**

**Source: 2210538-01**

Prepared: 10/28/22 Analyzed: 10/29/22

C10-C28 (DRO)	511	50	mg/kg	500	26.8	96.8	70-130	10.4	20	
Surrogate: o-Terphenyl	10.8		"	12.5		86.5	30-150			

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/01/22 16:22

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0847 - EPA 3050B**

**Blank (BFJ0847-BLK1)**

Prepared & Analyzed: 10/31/22

Lead ND 0.200 mg/kg wet

**LCS (BFJ0847-BS1)**

Prepared & Analyzed: 10/31/22

Lead 19.6 0.200 mg/kg wet 20.0 97.9 80-120

**Duplicate (BFJ0847-DUP1)**

**Source: 2210484-01**

Prepared & Analyzed: 10/31/22

Lead 4.70 0.200 mg/kg dry 4.63 1.53 20

**Matrix Spike (BFJ0847-MS1)**

**Source: 2210484-01**

Prepared & Analyzed: 10/31/22

Lead 20.0 0.200 mg/kg dry 21.5 4.63 71.8 75-125 QM-05

**Matrix Spike Dup (BFJ0847-MSD1)**

**Source: 2210484-01**

Prepared & Analyzed: 10/31/22

Lead 19.7 0.200 mg/kg dry 21.5 4.63 70.3 75-125 1.64 25 QM-05

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/01/22 16:22

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0845 - General Preparation**

**Duplicate (BFJ0845-DUP1)**

**Source: 2210484-01**

Prepared & Analyzed: 10/31/22

% Solids	77.3	%		93.2		18.6	20
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/01/22 16:22

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

**Batch BFJ0834 - General Preparation**

**LCS (BFJ0834-BS1)**

Prepared: 10/25/22 Analyzed: 10/31/22

pH	9.02	pH Units	9.18	98.3	95-105
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**Duplicate (BFJ0834-DUP1)**

**Source: 2210310-07**

Prepared: 10/25/22 Analyzed: 10/31/22

pH	7.50	pH Units	7.35	2.02	20
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/01/22 16:22

### Notes and Definitions

S-02      The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

QM-05      The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.

DET      Analyte DETECTED

ND      Analyte NOT DETECTED at or above the reporting limit

NR      Not Reported

dry      Sample results reported on a dry weight basis

RPD      Relative Percent Difference

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 02, 2022

Sam Vogt

Civitas Resources

650 Southgate Drive

Windsor, CO 80550

RE: Culver MC 5-17 Tank Battery

Work Order #2210576

Enclosed are the results of analyses for samples received by Summit Scientific on 10/31/22 17:31. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury  
President



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 14:05

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS07@10.5'	2210576-01	Soil	10/31/22 10:21	10/31/22 17:31
SS08@10'	2210576-02	Soil	10/31/22 13:11	10/31/22 17:31

Summit Scientific


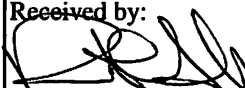
*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

# Summit Scientific

Page 1 of 1

Project Manager: Sam Vogt, Jacob Evans  
E-Mail: SVogt@tasmian-geo.com, Jevans@civiresources.com  
Project Name: Cruiser MC 5-17 Tank Battery  
Project Number: \_\_\_\_\_

				Preservative				Matrix				Analyze For:									
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	BTEX	Nugh	TMBs	TPH	PAHs	Lead	pH*		* Sat. Paste	
SS07@10.5'	10.31.22	10:21	2			X			X			X	X	X	X	X	X	X			Special Instructions
SS08@10'	↓	13:11	↓			↓			↓			↓	↓	↓	↓	↓	↓	↓			

Relinquished by: 		Date/Time: 16:21 10.31.22	Received by: Tasman Lockbox		Date/Time: 16:21 10.31.22	Turn Around Time (Check) Same Day <input checked="" type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input type="checkbox"/> 48 Hours <input type="checkbox"/>		Notes:
Relinquished by: Tasman LockBOX		Date/Time: 103122 1731	Received by: 		Date/Time: 103122 1731	Sample Integrity: Temperature Upon Receipt: 9.1		
Relinquished by:		Date/Time:	Received in Lab by:		Date/Time:	Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		



S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2210576Client: Civitas Trasman Client Project ID: Culver mc S-17 Tank BatteryShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: \_\_\_\_\_

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 9.1 Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ice
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	same day
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

Custodian Printed Name

Date/Time

10-31-22



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 14:05

**SS07@10.5'**  
**2210576-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/31/22 10:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0862	10/31/22	11/01/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>1.3</b>	<b>0.50</b>	"	"	"	"	"	"	

Date Sampled: **10/31/22 10:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		121 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/31/22 10:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0863	10/31/22	11/01/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/31/22 10:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		107 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 14:05

**SS07@10.5'**  
**2210576-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/31/22 10:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0001	11/01/22	11/02/22	EPA 8270D SIM	
<b>Anthracene</b>	<b>0.0558</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>0.0599</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (a) pyrene</b>	<b>0.0353</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (b) fluoranthene</b>	<b>0.0458</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (k) fluoranthene</b>	<b>0.0192</b>	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.100</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.311</b>	0.100	"	20	"	"	11/02/22	"	
<b>Fluorene</b>	<b>0.101</b>	0.00500	"	1	"	"	11/02/22	"	
<b>Indeno (1,2,3-cd) pyrene</b>	<b>0.0173</b>	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.269</b>	0.100	"	20	"	"	11/02/22	"	
<b>1-Methylnaphthalene</b>	<b>1.46</b>	0.100	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>5.37</b>	0.100	"	"	"	"	"	"	E

Date Sampled: **10/31/22 10:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		58.1 %	40-150		"	"	11/02/22	"	
Surrogate: Fluoranthene-d10		106 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B**

Date Sampled: **10/31/22 10:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Lead</b>	<b>2.04</b>	0.200	mg/kg dry	1	BFJ0864	10/31/22	11/02/22	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/31/22 10:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>% Solids</b>	<b>85.2</b>		%	1	BFK0020	11/01/22	11/01/22	Calculation	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 14:05

**SS07@10.5'**  
**2210576-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/31/22 10:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>pH</b>	<b>8.26</b>			pH Units	1	BFK0004	11/01/22	11/01/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 14:05

**SS08@10'**  
**2210576-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/31/22 13:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0862	10/31/22	10/31/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	<b>0.46</b>	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	<b>1700</b>	50	"	100	"	"	"	"	

Date Sampled: **10/31/22 13:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		133 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		97.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		124 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/31/22 13:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0863	10/31/22	11/01/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/31/22 13:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		108 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 14:05

**SS08@10'**  
**2210576-02 (Soil)**

### Summit Scientific

#### PAH by EPA Method 8270D SIM

Date Sampled: **10/31/22 13:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0001	11/01/22	11/02/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/31/22 13:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		85.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		88.8 %	40-150		"	"	"	"	

#### Total Metals by EPA 6020B

Date Sampled: **10/31/22 13:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	<b>4.38</b>	0.200	mg/kg dry	1	BFJ0864	10/31/22	11/02/22	EPA 6020B	

#### Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/22 13:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 14:05

**SS08@10'**  
**2210576-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	81.0	%	1	BFK0020	11/01/22	11/01/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **10/31/22 13:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.06		pH Units	1	BFK0004	11/01/22	11/01/22	EPA 9045D	

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 14:05

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

Analyte	Reporting			Spike Level	Source		%REC		RPD	
	Result	Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFJ0862 - EPA 5030 Soil MS

##### Blank (BFJ0862-BLK1)

Prepared: 10/31/22 Analyzed: 11/01/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0383		"	0.0400		95.8	50-150			
Surrogate: Toluene-d8	0.0432		"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene	0.0422		"	0.0400		106	50-150			

##### LCS (BFJ0862-BS1)

Prepared: 10/31/22 Analyzed: 11/01/22

Benzene	0.0682	0.0020	mg/kg	0.0750		91.0	70-130			
Toluene	0.0656	0.0050	"	0.0750		87.5	70-130			
Ethylbenzene	0.0722	0.0050	"	0.0750		96.3	70-130			
m,p-Xylene	0.143	0.010	"	0.150		95.5	70-130			
o-Xylene	0.0736	0.0050	"	0.0750		98.1	70-130			
1,2,4-Trimethylbenzene	0.0812	0.0050	"	0.0750		108	70-130			
1,3,5-Trimethylbenzene	0.0803	0.0050	"	0.0750		107	70-130			
Naphthalene	0.0789	0.0038	"	0.0750		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0365		"	0.0400		91.4	50-150			
Surrogate: Toluene-d8	0.0431		"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene	0.0412		"	0.0400		103	50-150			

##### Matrix Spike (BFJ0862-MS1)

Source: 2210572-01

Prepared: 10/31/22 Analyzed: 11/01/22

Benzene	0.0791	0.0020	mg/kg	0.0750	ND	105	70-130			
Toluene	0.0751	0.0050	"	0.0750	ND	100	70-130			
Ethylbenzene	0.0730	0.0050	"	0.0750	ND	97.4	70-130			
m,p-Xylene	0.148	0.010	"	0.150	ND	99.0	70-130			
o-Xylene	0.0776	0.0050	"	0.0750	ND	104	70-130			
1,2,4-Trimethylbenzene	0.0861	0.0050	"	0.0750	ND	115	70-130			
1,3,5-Trimethylbenzene	0.0830	0.0050	"	0.0750	ND	111	70-130			
Naphthalene	0.0803	0.0038	"	0.0750	ND	107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0406		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0438		"	0.0400		109	50-150			
Surrogate: 4-Bromofluorobenzene	0.0425		"	0.0400		106	50-150			

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 14:05

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0862 - EPA 5030 Soil MS**

Matrix Spike Dup (BFJ0862-MSD1)		Source: 2210572-01			Prepared: 10/31/22 Analyzed: 11/01/22					
Benzene	0.0771	0.0020	mg/kg	0.0750	ND	103	70-130	2.57	30	
Toluene	0.0747	0.0050	"	0.0750	ND	99.6	70-130	0.601	30	
Ethylbenzene	0.0751	0.0050	"	0.0750	ND	100	70-130	2.75	30	
m,p-Xylene	0.150	0.010	"	0.150	ND	99.8	70-130	0.845	30	
o-Xylene	0.0789	0.0050	"	0.0750	ND	105	70-130	1.57	30	
1,2,4-Trimethylbenzene	0.0874	0.0050	"	0.0750	ND	117	70-130	1.52	30	
1,3,5-Trimethylbenzene	0.0851	0.0050	"	0.0750	ND	113	70-130	2.43	30	
Naphthalene	0.0797	0.0038	"	0.0750	ND	106	70-130	0.750	30	
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	0.0397		"	0.0400		99.2	50-150			
Surrogate: Toluene-d8	0.0440		"	0.0400		110	50-150			
Surrogate: 4-Bromofluorobenzene	0.0422		"	0.0400		106	50-150			

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 14:05

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0863 - EPA 3550A**

**Blank (BFJ0863-BLK1)**

Prepared: 10/31/22 Analyzed: 11/01/22

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	14.4		"	12.5		115	30-150			

**LCS (BFJ0863-BS1)**

Prepared: 10/31/22 Analyzed: 11/01/22

C10-C28 (DRO)	552	50	mg/kg	500		110	70-130			
Surrogate: o-Terphenyl	14.3		"	12.5		114	30-150			

**Matrix Spike (BFJ0863-MS1)**

**Source: 2210572-01**

Prepared: 10/31/22 Analyzed: 11/01/22

C10-C28 (DRO)	515	50	mg/kg	500	24.0	98.1	70-130			
Surrogate: o-Terphenyl	14.1		"	12.5		113	30-150			

**Matrix Spike Dup (BFJ0863-MSD1)**

**Source: 2210572-01**

Prepared: 10/31/22 Analyzed: 11/01/22

C10-C28 (DRO)	502	50	mg/kg	500	24.0	95.6	70-130	2.45	20	
Surrogate: o-Terphenyl	14.0		"	12.5		112	30-150			

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 14:05

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

Reporting				Spike	Source	%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFK0001 - EPA 5030 Soil MS

##### Blank (BFK0001-BLK1)

Prepared & Analyzed: 11/01/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0246		"	0.0333		73.8	40-150			
Surrogate: Fluoranthene-d10	0.0341		"	0.0333		102	40-150			

##### LCS (BFK0001-BS1)

Prepared & Analyzed: 11/01/22

Acenaphthene	0.0309	0.00500	mg/kg	0.0333		92.6	31-137			
Anthracene	0.0315	0.00500	"	0.0333		94.6	30-120			
Benzo (a) anthracene	0.0322	0.00500	"	0.0333		96.7	30-120			
Benzo (a) pyrene	0.0306	0.00500	"	0.0333		91.8	30-120			
Benzo (b) fluoranthene	0.0313	0.00500	"	0.0333		93.8	30-120			
Benzo (k) fluoranthene	0.0331	0.00500	"	0.0333		99.4	30-120			
Chrysene	0.0328	0.00500	"	0.0333		98.3	30-120			
Dibenz (a,h) anthracene	0.0302	0.00500	"	0.0333		90.5	30-120			
Fluoranthene	0.0331	0.00500	"	0.0333		99.4	30-120			
Fluorene	0.0310	0.00500	"	0.0333		93.1	30-120			
Indeno (1,2,3-cd) pyrene	0.0293	0.00500	"	0.0333		87.9	30-120			
Pyrene	0.0361	0.00500	"	0.0333		108	35-142			
1-Methylnaphthalene	0.0318	0.00500	"	0.0333		95.5	35-142			
2-Methylnaphthalene	0.0325	0.00500	"	0.0333		97.5	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0301		"	0.0333		90.3	40-150			
Surrogate: Fluoranthene-d10	0.0317		"	0.0333		95.0	40-150			

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 14:05

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

Analyte	Reporting			Spike Level	Source		%REC		RPD	
	Result	Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFK0001 - EPA 5030 Soil MS

##### Matrix Spike (BFK0001-MS1)

Source: 2210517-01

Prepared & Analyzed: 11/01/22

Acenaphthene	0.0225	0.00500	mg/kg	0.0333	ND	67.4	31-137			
Anthracene	0.0232	0.00500	"	0.0333	ND	69.5	30-120			
Benzo (a) anthracene	0.0237	0.00500	"	0.0333	ND	71.1	30-120			
Benzo (a) pyrene	0.0230	0.00500	"	0.0333	ND	69.1	30-120			
Benzo (b) fluoranthene	0.0234	0.00500	"	0.0333	ND	70.1	30-120			
Benzo (k) fluoranthene	0.0244	0.00500	"	0.0333	ND	73.2	30-120			
Chrysene	0.0242	0.00500	"	0.0333	ND	72.7	30-120			
Dibenz (a,h) anthracene	0.0225	0.00500	"	0.0333	ND	67.5	30-120			
Fluoranthene	0.0250	0.00500	"	0.0333	ND	75.1	30-120			
Fluorene	0.0226	0.00500	"	0.0333	ND	67.9	30-120			
Indeno (1,2,3-cd) pyrene	0.0236	0.00500	"	0.0333	ND	70.9	30-120			
Pyrene	0.0265	0.00500	"	0.0333	ND	79.6	35-142			
1-Methylnaphthalene	0.0227	0.00500	"	0.0333	ND	68.0	15-130			
2-Methylnaphthalene	0.0227	0.00500	"	0.0333	ND	68.0	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0251		"	0.0333		75.3	40-150			
Surrogate: Fluoranthene-d10	0.0246		"	0.0333		73.7	40-150			

##### Matrix Spike Dup (BFK0001-MSD1)

Source: 2210517-01

Prepared & Analyzed: 11/01/22

Acenaphthene	0.0201	0.00500	mg/kg	0.0333	ND	60.3	31-137	11.1	30	
Anthracene	0.0202	0.00500	"	0.0333	ND	60.5	30-120	13.8	30	
Benzo (a) anthracene	0.0203	0.00500	"	0.0333	ND	60.8	30-120	15.6	30	
Benzo (a) pyrene	0.0195	0.00500	"	0.0333	ND	58.5	30-120	16.7	30	
Benzo (b) fluoranthene	0.0195	0.00500	"	0.0333	ND	58.5	30-120	18.0	30	
Benzo (k) fluoranthene	0.0202	0.00500	"	0.0333	ND	60.7	30-120	18.7	30	
Chrysene	0.0206	0.00500	"	0.0333	ND	61.8	30-120	16.2	30	
Dibenz (a,h) anthracene	0.0192	0.00500	"	0.0333	ND	57.5	30-120	16.1	30	
Fluoranthene	0.0215	0.00500	"	0.0333	ND	64.6	30-120	15.0	30	
Fluorene	0.0194	0.00500	"	0.0333	ND	58.1	30-120	15.6	30	
Indeno (1,2,3-cd) pyrene	0.0130	0.00500	"	0.0333	ND	39.0	30-120	58.1	30	QR-02
Pyrene	0.0217	0.00500	"	0.0333	ND	65.1	35-142	20.1	30	
1-Methylnaphthalene	0.0206	0.00500	"	0.0333	ND	61.7	15-130	9.76	50	
2-Methylnaphthalene	0.0248	0.00500	"	0.0333	ND	74.5	15-130	9.19	50	
Surrogate: 2-Methylnaphthalene-d10	0.0222		"	0.0333		66.5	40-150			
Surrogate: Fluoranthene-d10	0.0214		"	0.0333		64.1	40-150			

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 14:05

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

Reporting				Spike	Source	%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFJ0864 - EPA 3050B**

**Blank (BFJ0864-BLK1)**

Prepared: 10/31/22 Analyzed: 11/02/22

Lead ND 0.200 mg/kg wet

**LCS (BFJ0864-BS1)**

Prepared: 10/31/22 Analyzed: 11/02/22

Lead 21.1 0.200 mg/kg wet 20.0 105 80-120

**Duplicate (BFJ0864-DUP1)**

**Source: 2210539-01**

Prepared: 10/31/22 Analyzed: 11/02/22

Lead 4.01 0.200 mg/kg dry 4.44 10.2 20

**Matrix Spike (BFJ0864-MS1)**

**Source: 2210539-01**

Prepared: 10/31/22 Analyzed: 11/02/22

Lead 25.2 0.200 mg/kg dry 21.1 4.44 98.4 75-125

**Matrix Spike Dup (BFJ0864-MSD1)**

**Source: 2210539-01**

Prepared: 10/31/22 Analyzed: 11/02/22

Lead 27.0 0.200 mg/kg dry 21.1 4.44 107 75-125 7.13 25

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 14:05

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0020 - General Preparation**

Duplicate (BFK0020-DUP1)		Source: 2210558-01		Prepared & Analyzed: 11/01/22						
% Solids	97.9		%		97.7			0.143	20	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 14:05

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0004 - General Preparation**

**LCS (BFK0004-BS1)**

Prepared & Analyzed: 11/01/22

pH	9.01	pH Units	9.18	98.1	95-105
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**Duplicate (BFK0004-DUP1)**

Source: 2210576-01

Prepared & Analyzed: 11/01/22

pH	8.26	pH Units	8.26	0.00	20
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/02/22 14:05

### Notes and Definitions

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 03, 2022

Sam Vogt

Civitas Resources

650 Southgate Drive

Windsor, CO 80550

RE: Culver MC 5-17 Tank Battery

Work Order #2211016

Enclosed are the results of analyses for samples received by Summit Scientific on 11/01/22 17:43. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury  
President



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/03/22 14:26

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS09@10'	2211016-01	Soil	11/01/22 10:09	11/01/22 17:43
SS10@10'	2211016-02	Soil	11/01/22 10:38	11/01/22 17:43
SS11@9.5'	2211016-03	Soil	11/01/22 11:35	11/01/22 17:43
SS12@8.5'	2211016-04	Soil	11/01/22 13:16	11/01/22 17:43
SS13@8.5'	2211016-05	Soil	11/01/22 13:37	11/01/22 17:43
SS14@10'	2211016-06	Soil	11/01/22 13:56	11/01/22 17:43
SS15@8.5'	2211016-07	Soil	11/01/22 15:21	11/01/22 17:43

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

# Summit Scientific

741 Corporate Circle Suite I ♦ Golden, Colorado 80401  
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client: Civitas / Tasman  
Address: 6855 W. 119th Ave  
City/State/Zip: Broomfield, CO 80020  
Phone: 610-405-9078 Fax:   
Sampler Name: DH

Project Manager: Sam Vagt, Jacob Evans  
E-Mail: Svaght@tasman-geo.com, Jevans@civiresources.com  
Project Name: Calver MC 5-17 Tank Battery  
Project Number:

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix		Analyze For:							Special Instructions		
				HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	BTEX	Naph	TMDs	TPH	PAHs		Lead	pH*
SS09@10'	11.1.22	10:09	2			X			X				X	X	X	X	X	X	*Sat Paste
SS10@10'		10:38																	
SS11@9.5'		11:35																	
SS12@8.5'		13:16																	
SS13@8.5'		13:37																	
SS14@10'		13:56																	
SS15@8.5'		15:21																	

Relinquished by: <u>[Signature]</u>	Date/Time: <u>16:22</u> <u>11.1.22</u>	Received by: <u>Tasman Lockbox</u>	Date/Time: <u>16:22</u> <u>11.1.22</u>	<b>Turn Around Time (Check)</b> Same Day <input checked="" type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> <b>Standard</b>	Notes:
Relinquished by: <u>Tasman Lockbox</u>	Date/Time: <u>11:22</u> <u>11.1.22</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11:22</u> <u>11.1.22</u>		
Relinquished by: <u></u>	Date/Time: <u>17:43</u>	Received in Lab by: <u></u>	Date/Time: <u>17:43</u>		
<b>Sample Integrity:</b> Temperature Upon Receipt: <u>7.4</u> Intact: Yes <input type="checkbox"/> No <input type="checkbox"/>					

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2217016Client: Civitas/Asman Client Project ID: Culver MC 517 Tank BatteryShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☐ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 7.4 Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ICE
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Same day
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

Custodian Printed Name

Date/Time

11-1-22



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/03/22 14:26

**SS09@10'**  
**2211016-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/01/22 10:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFK0036	11/01/22	11/01/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/01/22 10:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/01/22 10:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0037	11/01/22	11/01/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/01/22 10:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		128 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/03/22 14:26

**SS09@10'**  
**2211016-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/01/22 10:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0050	11/02/22	11/02/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/01/22 10:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		82.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		86.5 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B**

Date Sampled: **11/01/22 10:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	2.22	0.200	mg/kg dry	1	BFK0040	11/01/22	11/03/22	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/01/22 10:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/03/22 14:26

**SS09@10'**  
**2211016-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	82.3	%	1	BFK0066	11/02/22	11/02/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/01/22 10:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.62		pH Units	1	BFK0041	11/01/22	11/01/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/03/22 14:26

**SS10@10'**  
**2211016-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/01/22 10:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFK0036	11/01/22	11/02/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	<b>0.16</b>	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	<b>380</b>	50	"	100	"	"	"	"	

Date Sampled: **11/01/22 10:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		95.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		107 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		166 %	50-150		"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/01/22 10:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	<b>260</b>	50	mg/kg	1	BFK0037	11/01/22	11/01/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/01/22 10:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		123 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/03/22 14:26

**SS10@10'**  
**2211016-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/01/22 10:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0050	11/02/22	11/02/22	EPA 8270D SIM	
<b>Anthracene</b>	<b>0.00534</b>	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.0254</b>	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.0159</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.0202</b>	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.0810</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.165</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **11/01/22 10:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		73.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		83.9 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B**

Date Sampled: **11/01/22 10:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Lead</b>	<b>3.08</b>	0.200	mg/kg dry	1	BFK0040	11/01/22	11/03/22	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/01/22 10:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/03/22 14:26

**SS10@10'**  
**2211016-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	81.6	%	1	BFK0066	11/02/22	11/02/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/01/22 10:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.45		pH Units	1	BFK0041	11/01/22	11/01/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/03/22 14:26

**SS11@9.5'**  
**2211016-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/01/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFK0036	11/01/22	11/02/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	<b>0.32</b>	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	<b>290</b>	50	"	100	"	"	"	"	

Date Sampled: **11/01/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		95.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		117 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		158 %	50-150		"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/01/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	<b>290</b>	50	mg/kg	1	BFK0037	11/01/22	11/01/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/01/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		126 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/03/22 14:26

**SS11@9.5'**  
**2211016-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/01/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0050	11/02/22	11/03/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.00648</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.0301</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.173</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.408</b>	0.0500	"	10	"	"	11/03/22	"	

Date Sampled: **11/01/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		85.6 %	40-150		"	"	11/03/22	"	
Surrogate: Fluoranthene-d10		84.5 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B**

Date Sampled: **11/01/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Lead</b>	<b>2.43</b>	0.200	mg/kg dry	1	BFK0040	11/01/22	11/03/22	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/01/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/03/22 14:26

**SS11@9.5'**  
**2211016-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	80.4	%	1	BFK0066	11/02/22	11/02/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/01/22 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.21		pH Units	1	BFK0041	11/01/22	11/01/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/03/22 14:26

**SS12@8.5'**  
**2211016-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/01/22 13:16**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFK0036	11/01/22	11/01/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/01/22 13:16**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		110 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/01/22 13:16**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0037	11/01/22	11/01/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/01/22 13:16**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		126 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/03/22 14:26

**SS12@8.5'**  
**2211016-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/01/22 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0050	11/02/22	11/03/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/01/22 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		55.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		58.7 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B**

Date Sampled: **11/01/22 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	9.32	0.200	mg/kg dry	1	BFK0040	11/01/22	11/03/22	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/01/22 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/03/22 14:26

**SS12@8.5'**  
**2211016-04 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	81.5	%	1	BFK0066	11/02/22	11/02/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/01/22 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.30		pH Units	1	BFK0041	11/01/22	11/01/22	EPA 9045D	

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/03/22 14:26

**SS13@8.5'**  
**2211016-05 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/01/22 13:37**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFK0036	11/01/22	11/01/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/01/22 13:37**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		111 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/01/22 13:37**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0037	11/01/22	11/01/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/01/22 13:37**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		125 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/03/22 14:26

**SS13@8.5'**  
**2211016-05 (Soil)**

### Summit Scientific

#### PAH by EPA Method 8270D SIM

Date Sampled: **11/01/22 13:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0050	11/02/22	11/03/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/01/22 13:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		54.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		62.5 %	40-150		"	"	"	"	

#### Total Metals by EPA 6020B

Date Sampled: **11/01/22 13:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	13.4	0.200	mg/kg dry	1	BFK0040	11/01/22	11/03/22	EPA 6020B	

#### Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/01/22 13:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/03/22 14:26

**SS13@8.5'**  
**2211016-05 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	80.8	%	1	BFK0066	11/02/22	11/02/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/01/22 13:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.92		pH Units	1	BFK0041	11/01/22	11/01/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/03/22 14:26

**SS14@10'**  
**2211016-06 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/01/22 13:56**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFK0036	11/01/22	11/01/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/01/22 13:56**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		95.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		107 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/01/22 13:56**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0037	11/01/22	11/02/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/01/22 13:56**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		125 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/03/22 14:26

**SS14@10'**  
**2211016-06 (Soil)**

### Summit Scientific

#### PAH by EPA Method 8270D SIM

Date Sampled: **11/01/22 13:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0050	11/02/22	11/03/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/01/22 13:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		67.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		72.1 %	40-150		"	"	"	"	

#### Total Metals by EPA 6020B

Date Sampled: **11/01/22 13:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	2.62	0.200	mg/kg dry	1	BFK0040	11/01/22	11/03/22	EPA 6020B	

#### Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/01/22 13:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/03/22 14:26

**SS14@10'**  
**2211016-06 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	83.5	%	1	BFK0066	11/02/22	11/02/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/01/22 13:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.02		pH Units	1	BFK0041	11/01/22	11/01/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/03/22 14:26

**SS15@8.5'**  
**2211016-07 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/01/22 15:21**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFK0036	11/01/22	11/01/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/01/22 15:21**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		109 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/01/22 15:21**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0037	11/01/22	11/02/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/01/22 15:21**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		128 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/03/22 14:26

**SS15@8.5'**  
**2211016-07 (Soil)**

### Summit Scientific

#### PAH by EPA Method 8270D SIM

Date Sampled: **11/01/22 15:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0050	11/02/22	11/03/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/01/22 15:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		58.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		78.9 %	40-150		"	"	"	"	

#### Total Metals by EPA 6020B

Date Sampled: **11/01/22 15:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	4.67	0.200	mg/kg dry	1	BFK0040	11/01/22	11/03/22	EPA 6020B	

#### Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/01/22 15:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/03/22 14:26

**SS15@8.5'**  
**2211016-07 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	81.0	%	1	BFK0066	11/02/22	11/02/22	Calculation
----------	------	---	---	---------	----------	----------	-------------

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/01/22 15:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.22		pH Units	1	BFK0041	11/01/22	11/01/22	EPA 9045D	

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/03/22 14:26

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

Analyte	Reporting			Spike Level	Source		%REC		RPD	
	Result	Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFK0036 - EPA 5030 Soil MS

##### Blank (BFK0036-BLK1)

Prepared: 11/01/22 Analyzed: 11/02/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0361		"	0.0400		90.3	50-150			
Surrogate: Toluene-d8	0.0436		"	0.0400		109	50-150			
Surrogate: 4-Bromofluorobenzene	0.0418		"	0.0400		104	50-150			

##### LCS (BFK0036-BS1)

Prepared: 11/01/22 Analyzed: 11/02/22

Benzene	0.0764	0.0020	mg/kg	0.100		76.4	70-130			
Toluene	0.0749	0.0050	"	0.100		74.9	70-130			
Ethylbenzene	0.0784	0.0050	"	0.100		78.4	70-130			
m,p-Xylene	0.163	0.010	"	0.200		81.3	70-130			
o-Xylene	0.0816	0.0050	"	0.100		81.6	70-130			
1,2,4-Trimethylbenzene	0.0892	0.0050	"	0.100		89.2	70-130			
1,3,5-Trimethylbenzene	0.0888	0.0050	"	0.100		88.8	70-130			
Naphthalene	0.124	0.0038	"	0.100		124	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0334		"	0.0400		83.6	50-150			
Surrogate: Toluene-d8	0.0444		"	0.0400		111	50-150			
Surrogate: 4-Bromofluorobenzene	0.0414		"	0.0400		103	50-150			

##### Matrix Spike (BFK0036-MS1)

Source: 2211013-01

Prepared: 11/01/22 Analyzed: 11/02/22

Benzene	0.0758	0.0020	mg/kg	0.100	ND	75.8	70-130			
Toluene	0.0746	0.0050	"	0.100	ND	74.6	70-130			
Ethylbenzene	0.0746	0.0050	"	0.100	ND	74.6	70-130			
m,p-Xylene	0.148	0.010	"	0.200	ND	74.1	70-130			
o-Xylene	0.0778	0.0050	"	0.100	ND	77.8	70-130			
1,2,4-Trimethylbenzene	0.0860	0.0050	"	0.100	ND	86.0	70-130			
1,3,5-Trimethylbenzene	0.0846	0.0050	"	0.100	ND	84.6	70-130			
Naphthalene	0.0895	0.0038	"	0.100	ND	89.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0358		"	0.0400		89.5	50-150			
Surrogate: Toluene-d8	0.0442		"	0.0400		111	50-150			
Surrogate: 4-Bromofluorobenzene	0.0423		"	0.0400		106	50-150			

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/03/22 14:26

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0036 - EPA 5030 Soil MS**

Matrix Spike Dup (BFK0036-MSD1)	Source: 2211013-01			Prepared: 11/01/22 Analyzed: 11/02/22						
Benzene	0.0747	0.0020	mg/kg	0.100	ND	74.7	70-130	1.55	30	
Toluene	0.0724	0.0050	"	0.100	ND	72.4	70-130	3.10	30	
Ethylbenzene	0.0736	0.0050	"	0.100	ND	73.6	70-130	1.46	30	
m,p-Xylene	0.146	0.010	"	0.200	ND	73.2	70-130	1.28	30	
o-Xylene	0.0770	0.0050	"	0.100	ND	77.0	70-130	1.05	30	
1,2,4-Trimethylbenzene	0.0857	0.0050	"	0.100	ND	85.7	70-130	0.349	30	
1,3,5-Trimethylbenzene	0.0835	0.0050	"	0.100	ND	83.5	70-130	1.28	30	
Naphthalene	0.0953	0.0038	"	0.100	ND	95.3	70-130	6.23	30	
Surrogate: 1,2-Dichloroethane-d4	0.0387		"	0.0400		96.8	50-150			
Surrogate: Toluene-d8	0.0440		"	0.0400		110	50-150			
Surrogate: 4-Bromofluorobenzene	0.0428		"	0.0400		107	50-150			

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/03/22 14:26

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0037 - EPA 3550A**

**Blank (BFK0037-BLK1)**

Prepared: 11/01/22 Analyzed: 11/02/22

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	16.4		"	12.5		131	30-150			

**LCS (BFK0037-BS1)**

Prepared: 11/01/22 Analyzed: 11/02/22

C10-C28 (DRO)	502	50	mg/kg	500		100	70-130			
Surrogate: o-Terphenyl	16.5		"	12.5		132	30-150			

**Matrix Spike (BFK0037-MS1)**

Source: 2211013-01

Prepared: 11/01/22 Analyzed: 11/02/22

C10-C28 (DRO)	475	50	mg/kg	500	21.7	90.7	70-130			
Surrogate: o-Terphenyl	16.3		"	12.5		130	30-150			

**Matrix Spike Dup (BFK0037-MSD1)**

Source: 2211013-01

Prepared: 11/01/22 Analyzed: 11/02/22

C10-C28 (DRO)	450	50	mg/kg	500	21.7	85.7	70-130	5.37	20	
Surrogate: o-Terphenyl	15.9		"	12.5		127	30-150			

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/03/22 14:26

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

Reporting				Spike	Source	%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFK0050 - EPA 5030 Soil MS

##### Blank (BFK0050-BLK1)

Prepared & Analyzed: 11/02/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0266		"	0.0333		79.8	40-150			
Surrogate: Fluoranthene-d10	0.0323		"	0.0333		96.9	40-150			

##### LCS (BFK0050-BS1)

Prepared & Analyzed: 11/02/22

Acenaphthene	0.0313	0.00500	mg/kg	0.0333		94.0	31-137			
Anthracene	0.0313	0.00500	"	0.0333		94.0	30-120			
Benzo (a) anthracene	0.0326	0.00500	"	0.0333		97.8	30-120			
Benzo (a) pyrene	0.0319	0.00500	"	0.0333		95.8	30-120			
Benzo (b) fluoranthene	0.0319	0.00500	"	0.0333		95.6	30-120			
Benzo (k) fluoranthene	0.0330	0.00500	"	0.0333		99.0	30-120			
Chrysene	0.0334	0.00500	"	0.0333		100	30-120			
Dibenz (a,h) anthracene	0.0301	0.00500	"	0.0333		90.4	30-120			
Fluoranthene	0.0296	0.00500	"	0.0333		88.7	30-120			
Fluorene	0.0313	0.00500	"	0.0333		93.8	30-120			
Indeno (1,2,3-cd) pyrene	0.0303	0.00500	"	0.0333		90.9	30-120			
Pyrene	0.0316	0.00500	"	0.0333		94.7	35-142			
1-Methylnaphthalene	0.0322	0.00500	"	0.0333		96.5	35-142			
2-Methylnaphthalene	0.0368	0.00500	"	0.0333		110	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0271		"	0.0333		81.2	40-150			
Surrogate: Fluoranthene-d10	0.0301		"	0.0333		90.3	40-150			

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/03/22 14:26

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

Reporting				Spike	Source	%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFK0050 - EPA 5030 Soil MS

##### Matrix Spike (BKF0050-MS1)

Source: 2210582-03

Prepared: 11/02/22 Analyzed: 11/03/22

Acenaphthene	0.0212	0.00500	mg/kg	0.0333	ND	63.5	31-137		
Anthracene	0.0214	0.00500	"	0.0333	ND	64.2	30-120		
Benzo (a) anthracene	0.0218	0.00500	"	0.0333	0.00101	62.3	30-120		
Benzo (a) pyrene	0.0205	0.00500	"	0.0333	ND	61.4	30-120		
Benzo (b) fluoranthene	0.0213	0.00500	"	0.0333	ND	63.8	30-120		
Benzo (k) fluoranthene	0.0220	0.00500	"	0.0333	ND	65.9	30-120		
Chrysene	0.0220	0.00500	"	0.0333	0.00103	63.0	30-120		
Dibenz (a,h) anthracene	0.0183	0.00500	"	0.0333	ND	54.9	30-120		
Fluoranthene	0.0205	0.00500	"	0.0333	ND	61.6	30-120		
Fluorene	0.0213	0.00500	"	0.0333	ND	64.0	30-120		
Indeno (1,2,3-cd) pyrene	0.0193	0.00500	"	0.0333	ND	57.8	30-120		
Pyrene	0.0192	0.00500	"	0.0333	ND	57.6	35-142		
1-Methylnaphthalene	0.0278	0.00500	"	0.0333	ND	83.3	15-130		
2-Methylnaphthalene	0.0252	0.00500	"	0.0333	ND	75.7	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0205		"	0.0333		61.4	40-150		
Surrogate: Fluoranthene-d10	0.0216		"	0.0333		64.8	40-150		

##### Matrix Spike Dup (BKF0050-MSD1)

Source: 2210582-03

Prepared: 11/02/22 Analyzed: 11/03/22

Acenaphthene	0.0203	0.00500	mg/kg	0.0333	ND	60.9	31-137	4.26	30
Anthracene	0.0208	0.00500	"	0.0333	ND	62.5	30-120	2.79	30
Benzo (a) anthracene	0.0210	0.00500	"	0.0333	0.00101	59.8	30-120	3.80	30
Benzo (a) pyrene	0.0197	0.00500	"	0.0333	ND	59.1	30-120	3.73	30
Benzo (b) fluoranthene	0.0200	0.00500	"	0.0333	ND	60.1	30-120	5.97	30
Benzo (k) fluoranthene	0.0207	0.00500	"	0.0333	ND	62.0	30-120	6.07	30
Chrysene	0.0212	0.00500	"	0.0333	0.00103	60.6	30-120	3.75	30
Dibenz (a,h) anthracene	0.0166	0.00500	"	0.0333	ND	49.8	30-120	9.73	30
Fluoranthene	0.0198	0.00500	"	0.0333	ND	59.4	30-120	3.68	30
Fluorene	0.0203	0.00500	"	0.0333	ND	60.8	30-120	5.13	30
Indeno (1,2,3-cd) pyrene	0.0185	0.00500	"	0.0333	ND	55.4	30-120	4.22	30
Pyrene	0.0182	0.00500	"	0.0333	ND	54.7	35-142	5.06	30
1-Methylnaphthalene	0.0209	0.00500	"	0.0333	ND	62.8	15-130	28.1	50
2-Methylnaphthalene	0.0211	0.00500	"	0.0333	ND	63.4	15-130	17.8	50
Surrogate: 2-Methylnaphthalene-d10	0.0198		"	0.0333		59.4	40-150		
Surrogate: Fluoranthene-d10	0.0210		"	0.0333		63.0	40-150		

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/03/22 14:26

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0040 - EPA 3050B**

**Blank (BFK0040-BLK1)**

Prepared: 11/01/22 Analyzed: 11/03/22

Lead ND 0.200 mg/kg wet

**LCS (BFK0040-BS1)**

Prepared: 11/01/22 Analyzed: 11/03/22

Lead 18.9 0.200 mg/kg wet 20.0 94.7 80-120

**Duplicate (BFK0040-DUP1)**

**Source: 2210585-05**

Prepared: 11/01/22 Analyzed: 11/03/22

Lead 3.33 0.200 mg/kg dry 3.48 4.37 20

**Matrix Spike (BFK0040-MS1)**

**Source: 2210585-05**

Prepared: 11/01/22 Analyzed: 11/03/22

Lead 21.1 0.200 mg/kg dry 20.3 3.48 86.8 75-125

**Matrix Spike Dup (BFK0040-MSD1)**

**Source: 2210585-05**

Prepared: 11/01/22 Analyzed: 11/03/22

Lead 21.5 0.200 mg/kg dry 20.3 3.48 89.0 75-125 2.09 25

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/03/22 14:26

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0066 - General Preparation**

Duplicate (BFK0066-DUP1)		Source: 2210585-01		Prepared & Analyzed: 11/02/22						
% Solids	97.8		%		97.5			0.331	20	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/03/22 14:26

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0041 - General Preparation**

**LCS (BFK0041-BS1)**

Prepared & Analyzed: 11/01/22

pH	9.01	pH Units	9.18	98.1	95-105
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**Duplicate (BFK0041-DUP1)**

Source: 2211016-01

Prepared & Analyzed: 11/01/22

pH	7.83	pH Units	7.62	2.72	20
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/03/22 14:26

### Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 08, 2022

Sam Vogt

Civitas Resources

650 Southgate Drive

Windsor, CO 80550

RE: Culver MC 5-17 Tank Battery

Work Order #2211041

Enclosed are the results of analyses for samples received by Summit Scientific on 11/02/22 17:37. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury  
President



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 09:13

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS16@10'	2211041-01	Soil	11/02/22 09:30	11/02/22 17:37
SS17@14'	2211041-02	Soil	11/02/22 09:41	11/02/22 17:37
SS18@10'	2211041-03	Soil	11/02/22 11:13	11/02/22 17:37
SS19@8'	2211041-04	Soil	11/02/22 11:31	11/02/22 17:37
SS20@10'	2211041-05	Soil	11/02/22 12:35	11/02/22 17:37
SS21@10'	2211041-06	Soil	11/02/22 12:40	11/02/22 17:37
SS25@10.5'	2211041-07	Soil	11/02/22 15:00	11/02/22 17:37
SS23@13'	2211041-08	Soil	11/02/22 15:05	11/02/22 17:37

Summit Scientific

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# Summit Scientific

2211041

741 Corporate Circle Suite I ♦ Golden, Colorado 80401  
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client: Civitas / Tasmán  
Address: 6855 W. 114th Ave  
City/State/Zip: Broomfield, CO 80020  
Phone: 610-405-9078 Fax:   
Sampler Name: DN

Project Manager: Sam Vogt, Jacob Evans  
E-Mail: svogt@tasmán-gco.com, jevans@civiresources.com  
Project Name: Calver MC 5-17 Tank Battery  
Project Number:

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analyze For:							*Sat. Paste	Special Instructions		
				HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	BTEX	Naph	TMBs	TPH	PAHs	Lead			pH*	
SS16@10'	11.2.22	9:30	2			X			X				X	X	X	X	X	X			
SS17@14'		9:41																			
SS18@10'		11:15																			
SS19@8'		11:31																			
SS20@10'		12:35																			
SS21@10'		12:40																			
SS22@10.5'		15:00																			
SS23@13'		15:05																			
Relinquished by: <u>[Signature]</u> Date/Time: <u>11.2.22 16:18</u>				Received by: <u>Tasmán Lockbox</u> Date/Time: <u>11.2.22 16:18</u>				Turn Around Time (Check) Same Day <input checked="" type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input type="checkbox"/> 48 Hours <input type="checkbox"/>												Notes:	
Relinquished by: <u>Tasmán Lockbox</u> Date/Time: <u>11.2.22 17:37</u>				Received by: <u>[Signature]</u> Date/Time: <u>11.2.22 17:37</u>				Sample Integrity: Temperature Upon Receipt: <u>8.1</u> Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													
Relinquished by: <u></u> Date/Time: <u></u>				Received in Lab by: <u></u> Date/Time: <u></u>																	

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2211041Client: Civilitas/Tasman Client Project ID: Culver MC 5-17 Tank BatteryShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: \_\_\_\_\_
☐ ☒ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☐ Water ☐ Other ☐Temp (°C) 8.1Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ICE
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Same day
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

Custodian Printed Name

Date/Time

11-2-22



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 09:13

**SS16@10'**  
**2211041-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/02/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFK0077	11/02/22	11/02/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>0.011</b>	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.43</b>	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>1300</b>	50	"	100	"	"	"	"	

Date Sampled: **11/02/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		116 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		87.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		121 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/02/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>480</b>	50	mg/kg	1	BFK0078	11/02/22	11/02/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/02/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		101 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 09:13

**SS16@10'**  
**2211041-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/02/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0084	11/03/22	11/05/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	11/04/22	"	
<b>Benzo (a) pyrene</b>	<b>0.0240</b>	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0570</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.0377</b>	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.588</b>	0.100	"	20	"	"	11/05/22	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	1	"	"	11/04/22	"	
<b>Pyrene</b>	<b>0.0339</b>	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>2.60</b>	0.100	"	20	"	"	11/05/22	"	
<b>2-Methylnaphthalene</b>	<b>5.62</b>	0.100	"	"	"	"	"	"	E

Date Sampled: **11/02/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		86.1 %	40-150		"	"	11/04/22	"	
Surrogate: Fluoranthene-d10		72.8 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B**

Date Sampled: **11/02/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Lead</b>	<b>8.29</b>	0.200	mg/kg dry	1	BFK0076	11/02/22	11/03/22	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/02/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 09:13

**SS16@10'**  
**2211041-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	82.3	%	1	BFK0096	11/03/22	11/03/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/02/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.26		pH Units	1	BFK0075	11/02/22	11/02/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 09:13

**SS17@14'**  
**2211041-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/02/22 09:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFK0077	11/02/22	11/03/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.17</b>	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>7.5</b>	0.38	"	100	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>7600</b>	50	"	"	"	"	"	"	E

Date Sampled: **11/02/22 09:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		122 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		106 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		220 %	50-150		"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/02/22 09:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>1500</b>	50	mg/kg	1	BFK0078	11/02/22	11/02/22	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>110</b>	50	"	"	"	"	"	"	

Date Sampled: **11/02/22 09:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		115 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

**R-01**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 09:13

**SS17@14'**  
**2211041-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

**R-01**

Date Sampled: **11/02/22 09:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.0500	mg/kg	10	BFK0084	11/03/22	11/04/22	EPA 8270D SIM	
Anthracene	ND	0.0500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.0500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.0500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.0500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.212</b>	0.0500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0500	"	"	"	"	"	"	
Fluoranthene	ND	0.0500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.932</b>	0.0500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.0798</b>	0.0500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>10.6</b>	1.25	"	250	"	"	11/05/22	"	
<b>2-Methylnaphthalene</b>	<b>25.7</b>	1.25	"	"	"	"	"	"	

Date Sampled: **11/02/22 09:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		%	40-150		"	"	"	"	S-01
Surrogate: Fluoranthene-d10		%	40-150		"	"	"	"	S-01

**Total Metals by EPA 6020B**

Date Sampled: **11/02/22 09:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Lead</b>	<b>4.17</b>	0.200	mg/kg dry	1	BFK0076	11/02/22	11/03/22	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/02/22 09:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 09:13

**SS17@14'**  
**2211041-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	80.5	%	1	BFK0096	11/03/22	11/03/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/02/22 09:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.32		pH Units	1	BFK0075	11/02/22	11/02/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 09:13

**SS18@10'**  
**2211041-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/02/22 11:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFK0077	11/02/22	11/02/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/02/22 11:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		111 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.4 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/02/22 11:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0078	11/02/22	11/02/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/02/22 11:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		85.8 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 09:13

**SS18@10'**  
**2211041-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/02/22 11:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0084	11/03/22	11/04/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/02/22 11:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		77.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		61.0 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B**

Date Sampled: **11/02/22 11:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	<b>2.85</b>	0.200	mg/kg dry	1	BFK0076	11/02/22	11/03/22	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/02/22 11:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 09:13

**SS18@10'**  
**2211041-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	82.1	%	1	BFK0096	11/03/22	11/03/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/02/22 11:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.35		pH Units	1	BFK0075	11/02/22	11/02/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 09:13

**SS19@8'**  
**2211041-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/02/22 11:31**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFK0077	11/02/22	11/02/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/02/22 11:31**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		99.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		97.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/02/22 11:31**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0078	11/02/22	11/02/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/02/22 11:31**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		86.9 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 09:13

**SS19@8'**  
**2211041-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/02/22 11:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0084	11/03/22	11/04/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/02/22 11:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		84.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		61.3 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B**

Date Sampled: **11/02/22 11:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	10.3	0.200	mg/kg dry	1	BFK0076	11/02/22	11/03/22	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/02/22 11:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 09:13

**SS19@8'**  
**2211041-04 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	83.5	%	1	BFK0096	11/03/22	11/03/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/02/22 11:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.07		pH Units	1	BFK0075	11/02/22	11/02/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 09:13

**SS20@10'**  
**2211041-05 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/02/22 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFK0077	11/02/22	11/02/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/02/22 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		118 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/02/22 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0078	11/02/22	11/02/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/02/22 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		86.8 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 09:13

**SS20@10'**  
**2211041-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/02/22 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0084	11/03/22	11/04/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/02/22 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		77.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		73.5 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B**

Date Sampled: **11/02/22 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	3.46	0.200	mg/kg dry	1	BFK0076	11/02/22	11/03/22	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/02/22 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 09:13

**SS20@10'**  
**2211041-05 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	83.1	%	1	BFK0096	11/03/22	11/03/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/02/22 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.46		pH Units	1	BFK0075	11/02/22	11/02/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 09:13

**SS21@10'**  
**2211041-06 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/02/22 12:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFK0077	11/02/22	11/02/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/02/22 12:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		96.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/02/22 12:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0078	11/02/22	11/02/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/02/22 12:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		98.9 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 09:13

**SS21@10'**  
**2211041-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/02/22 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0084	11/03/22	11/04/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/02/22 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		78.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		84.1 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B**

Date Sampled: **11/02/22 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	16.3	0.200	mg/kg dry	1	BFK0076	11/02/22	11/03/22	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/02/22 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 09:13

**SS21@10'**  
**2211041-06 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	78.1	%	1	BFK0096	11/03/22	11/03/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/02/22 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.94		pH Units	1	BFK0075	11/02/22	11/02/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 09:13

**SS25@10.5'**  
**2211041-07 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/02/22 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFK0077	11/02/22	11/03/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	<b>3.3</b>	0.38	"	100	"	"	"	"	
Gasoline Range Hydrocarbons	<b>2300</b>	50	"	"	"	"	"	"	

Date Sampled: **11/02/22 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		90.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		141 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/02/22 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	<b>1900</b>	50	mg/kg	1	BFK0078	11/02/22	11/02/22	EPA 8015M	
C28-C36 (ORO)	<b>150</b>	50	"	"	"	"	"	"	

Date Sampled: **11/02/22 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		111 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 09:13

**SS25@10.5'**  
**2211041-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/02/22 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0084	11/03/22	11/04/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0342</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.0139</b>	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.0919</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.0112</b>	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>3.76</b>	0.0500	"	10	"	"	"	"	E
<b>2-Methylnaphthalene</b>	<b>6.16</b>	0.0500	"	"	"	"	"	"	E

Date Sampled: **11/02/22 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		81.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		85.6 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B**

Date Sampled: **11/02/22 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Lead</b>	<b>3.68</b>	0.200	mg/kg dry	1	BFK0076	11/02/22	11/03/22	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/02/22 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 09:13

**SS25@10.5'**  
**2211041-07 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	84.8	%	1	BFK0096	11/03/22	11/03/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/02/22 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.42		pH Units	1	BFK0075	11/02/22	11/02/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 09:13

**SS23@13'**  
**2211041-08 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/02/22 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFK0077	11/02/22	11/03/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	<b>0.76</b>	0.38	"	100	"	"	"	"	
Gasoline Range Hydrocarbons	<b>1100</b>	50	"	"	"	"	"	"	

Date Sampled: **11/02/22 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/02/22 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	<b>270</b>	50	mg/kg	1	BFK0078	11/02/22	11/03/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/02/22 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		96.5 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 09:13

**SS23@13'**  
**2211041-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/02/22 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0084	11/03/22	11/04/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0455</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.0933</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.0130</b>	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>11.8</b>	0.0500	"	10	"	"	"	"	E
<b>2-Methylnaphthalene</b>	<b>19.8</b>	0.0500	"	"	"	"	"	"	E

Date Sampled: **11/02/22 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		73.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		94.6 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B**

Date Sampled: **11/02/22 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Lead</b>	<b>8.25</b>	0.200	mg/kg dry	1	BFK0076	11/02/22	11/03/22	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/02/22 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 09:13

**SS23@13'**  
**2211041-08 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	83.4	%	1	BFK0096	11/03/22	11/03/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/02/22 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.84		pH Units	1	BFK0075	11/02/22	11/02/22	EPA 9045D	

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 09:13

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFK0077 - EPA 5030 Soil MS

##### Blank (BFK0077-BLK1)

Prepared: 11/02/22 Analyzed: 11/03/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0379		"	0.0400		94.6	50-150			
Surrogate: Toluene-d8	0.0389		"	0.0400		97.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0412		"	0.0400		103	50-150			

##### LCS (BFK0077-BS1)

Prepared: 11/02/22 Analyzed: 11/03/22

Benzene	0.110	0.0020	mg/kg	0.125		88.4	70-130			
Toluene	0.147	0.0050	"	0.125		117	70-130			
Ethylbenzene	0.146	0.0050	"	0.125		116	70-130			
m,p-Xylene	0.302	0.010	"	0.250		121	70-130			
o-Xylene	0.144	0.0050	"	0.125		115	70-130			
1,2,4-Trimethylbenzene	0.142	0.0050	"	0.125		113	70-130			
1,3,5-Trimethylbenzene	0.139	0.0050	"	0.125		111	70-130			
Naphthalene	0.138	0.0038	"	0.125		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0385		"	0.0400		96.2	50-150			
Surrogate: Toluene-d8	0.0412		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		100	50-150			

##### Matrix Spike (BFK0077-MS1)

Source: 2211041-03

Prepared: 11/02/22 Analyzed: 11/03/22

Benzene	0.111	0.0020	mg/kg	0.125	ND	88.4	70-130			
Toluene	0.144	0.0050	"	0.125	ND	115	70-130			
Ethylbenzene	0.161	0.0050	"	0.125	ND	129	70-130			
m,p-Xylene	0.325	0.010	"	0.250	ND	130	70-130			
o-Xylene	0.152	0.0050	"	0.125	ND	122	70-130			
1,2,4-Trimethylbenzene	0.142	0.0050	"	0.125	ND	113	70-130			
1,3,5-Trimethylbenzene	0.141	0.0050	"	0.125	ND	113	70-130			
Naphthalene	0.144	0.0038	"	0.125	ND	115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0435		"	0.0400		109	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400		101	50-150			

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 09:13

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0077 - EPA 5030 Soil MS**

Matrix Spike Dup (BFK0077-MSD1)	Source: 2211041-03			Prepared: 11/02/22 Analyzed: 11/03/22						
Benzene	0.106	0.0020	mg/kg	0.125	ND	85.2	70-130	3.76	30	
Toluene	0.141	0.0050	"	0.125	ND	113	70-130	2.02	30	
Ethylbenzene	0.154	0.0050	"	0.125	ND	123	70-130	4.04	30	
m,p-Xylene	0.317	0.010	"	0.250	ND	127	70-130	2.48	30	
o-Xylene	0.160	0.0050	"	0.125	ND	128	70-130	4.71	30	
1,2,4-Trimethylbenzene	0.147	0.0050	"	0.125	ND	117	70-130	3.62	30	
1,3,5-Trimethylbenzene	0.133	0.0050	"	0.125	ND	107	70-130	5.72	30	
Naphthalene	0.147	0.0038	"	0.125	ND	117	70-130	1.98	30	
Surrogate: 1,2-Dichloroethane-d4	0.0457		"	0.0400		114	50-150			
Surrogate: Toluene-d8	0.0405		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0491		"	0.0400		123	50-150			

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 09:13

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0078 - EPA 3550A**

**Blank (BFK0078-BLK1)**

Prepared: 11/02/22 Analyzed: 11/03/22

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	12.5		"	12.5		100	30-150			

**LCS (BFK0078-BS1)**

Prepared: 11/02/22 Analyzed: 11/03/22

C10-C28 (DRO)	417	50	mg/kg	500		83.4	70-130			
Surrogate: o-Terphenyl	13.5		"	12.5		108	30-150			

**Matrix Spike (BFK0078-MS1)**

**Source: 2211041-03**

Prepared: 11/02/22 Analyzed: 11/03/22

C10-C28 (DRO)	450	50	mg/kg	500	26.7	84.7	70-130			
Surrogate: o-Terphenyl	12.6		"	12.5		101	30-150			

**Matrix Spike Dup (BFK0078-MSD1)**

**Source: 2211041-03**

Prepared: 11/02/22 Analyzed: 11/03/22

C10-C28 (DRO)	459	50	mg/kg	500	26.7	86.5	70-130	1.97	20	
Surrogate: o-Terphenyl	12.4		"	12.5		99.4	30-150			

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 09:13

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

#### Batch BFK0084 - EPA 5030 Soil MS

##### Blank (BFK0084-BLK1)

Prepared: 11/03/22 Analyzed: 11/04/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0246		"	0.0333		73.8	40-150			
Surrogate: Fluoranthene-d10	0.0272		"	0.0333		81.6	40-150			

##### LCS (BFK0084-BS1)

Prepared: 11/03/22 Analyzed: 11/04/22

Acenaphthene	0.0279	0.00500	mg/kg	0.0333		83.8	31-137			
Anthracene	0.0277	0.00500	"	0.0333		83.0	30-120			
Benzo (a) anthracene	0.0285	0.00500	"	0.0333		85.6	30-120			
Benzo (a) pyrene	0.0290	0.00500	"	0.0333		87.1	30-120			
Benzo (b) fluoranthene	0.0289	0.00500	"	0.0333		86.7	30-120			
Benzo (k) fluoranthene	0.0286	0.00500	"	0.0333		85.9	30-120			
Chrysene	0.0286	0.00500	"	0.0333		85.9	30-120			
Dibenz (a,h) anthracene	0.0280	0.00500	"	0.0333		84.1	30-120			
Fluoranthene	0.0271	0.00500	"	0.0333		81.3	30-120			
Fluorene	0.0279	0.00500	"	0.0333		83.7	30-120			
Indeno (1,2,3-cd) pyrene	0.0292	0.00500	"	0.0333		87.7	30-120			
Pyrene	0.0284	0.00500	"	0.0333		85.3	35-142			
1-Methylnaphthalene	0.0308	0.00500	"	0.0333		92.3	35-142			
2-Methylnaphthalene	0.0240	0.00500	"	0.0333		72.1	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0292		"	0.0333		87.7	40-150			
Surrogate: Fluoranthene-d10	0.0276		"	0.0333		82.8	40-150			

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 09:13

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

Analyte	Reporting			Spike Level	Source		%REC		RPD	
	Result	Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFK0084 - EPA 5030 Soil MS

##### Matrix Spike (BFK0084-MS1)

Source: 2210493-01

Prepared: 11/03/22 Analyzed: 11/05/22

Acenaphthene	0.0183	0.00500	mg/kg	0.0333	ND	55.0	31-137		
Anthracene	0.0187	0.00500	"	0.0333	ND	56.0	30-120		
Benzo (a) anthracene	0.0191	0.00500	"	0.0333	ND	57.4	30-120		
Benzo (a) pyrene	0.0181	0.00500	"	0.0333	ND	54.4	30-120		
Benzo (b) fluoranthene	0.0175	0.00500	"	0.0333	ND	52.6	30-120		
Benzo (k) fluoranthene	0.0164	0.00500	"	0.0333	ND	49.1	30-120		
Chrysene	0.0179	0.00500	"	0.0333	ND	53.6	30-120		
Dibenz (a,h) anthracene	0.0152	0.00500	"	0.0333	ND	45.6	30-120		
Fluoranthene	0.0206	0.00500	"	0.0333	ND	61.8	30-120		
Fluorene	0.0190	0.00500	"	0.0333	ND	57.0	30-120		
Indeno (1,2,3-cd) pyrene	0.0154	0.00500	"	0.0333	ND	46.2	30-120		
Pyrene	0.0182	0.00500	"	0.0333	ND	54.5	35-142		
1-Methylnaphthalene	0.0221	0.00500	"	0.0333	ND	66.3	15-130		
2-Methylnaphthalene	0.0244	0.00500	"	0.0333	ND	73.2	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0165		"	0.0333		49.6	40-150		
Surrogate: Fluoranthene-d10	0.0204		"	0.0333		61.3	40-150		

##### Matrix Spike Dup (BFK0084-MSD1)

Source: 2210493-01

Prepared: 11/03/22 Analyzed: 11/05/22

Acenaphthene	0.0198	0.00500	mg/kg	0.0333	ND	59.5	31-137	7.81	30
Anthracene	0.0197	0.00500	"	0.0333	ND	59.0	30-120	5.24	30
Benzo (a) anthracene	0.0202	0.00500	"	0.0333	ND	60.5	30-120	5.31	30
Benzo (a) pyrene	0.0192	0.00500	"	0.0333	ND	57.6	30-120	5.71	30
Benzo (b) fluoranthene	0.0190	0.00500	"	0.0333	ND	57.1	30-120	8.20	30
Benzo (k) fluoranthene	0.0178	0.00500	"	0.0333	ND	53.5	30-120	8.53	30
Chrysene	0.0189	0.00500	"	0.0333	ND	56.6	30-120	5.35	30
Dibenz (a,h) anthracene	0.0166	0.00500	"	0.0333	ND	49.8	30-120	8.77	30
Fluoranthene	0.0208	0.00500	"	0.0333	ND	62.4	30-120	1.05	30
Fluorene	0.0202	0.00500	"	0.0333	ND	60.7	30-120	6.27	30
Indeno (1,2,3-cd) pyrene	0.0168	0.00500	"	0.0333	ND	50.4	30-120	8.55	30
Pyrene	0.0197	0.00500	"	0.0333	ND	59.2	35-142	8.27	30
1-Methylnaphthalene	0.0238	0.00500	"	0.0333	ND	71.3	15-130	7.24	50
2-Methylnaphthalene	0.0211	0.00500	"	0.0333	ND	63.3	15-130	14.5	50
Surrogate: 2-Methylnaphthalene-d10	0.0177		"	0.0333		53.2	40-150		
Surrogate: Fluoranthene-d10	0.0209		"	0.0333		62.7	40-150		

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 09:13

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0076 - EPA 3050B**

**Blank (BFK0076-BLK1)**

Prepared: 11/02/22 Analyzed: 11/03/22

Lead ND 0.200 mg/kg wet

**LCS (BFK0076-BS1)**

Prepared: 11/02/22 Analyzed: 11/03/22

Lead 22.1 0.200 mg/kg wet 20.0 110 80-120

**Duplicate (BFK0076-DUP1)**

**Source: 2211031-01**

Prepared: 11/02/22 Analyzed: 11/03/22

Lead 14.1 0.200 mg/kg dry 13.3 5.70 20

**Matrix Spike (BFK0076-MS1)**

**Source: 2211031-01**

Prepared: 11/02/22 Analyzed: 11/03/22

Lead 31.9 0.200 mg/kg dry 23.1 13.3 80.6 75-125

**Matrix Spike Dup (BFK0076-MSD1)**

**Source: 2211031-01**

Prepared: 11/02/22 Analyzed: 11/03/22

Lead 30.8 0.200 mg/kg dry 23.1 13.3 76.0 75-125 3.39 25

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 09:13

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0096 - General Preparation**

Duplicate (BFK0096-DUP1)		Source: 2211031-01		Prepared & Analyzed: 11/03/22						
% Solids	86.8		%		86.8			0.107	20	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 09:13

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0075 - General Preparation**

**LCS (BFK0075-BS1)**

Prepared & Analyzed: 11/02/22

pH	9.00	pH Units	9.18	98.0	95-105
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**Duplicate (BFK0075-DUP1)**

Source: 2211041-01

Prepared & Analyzed: 11/02/22

pH	8.22	pH Units	8.26	0.485	20
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 09:13

### Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
S-01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
R-01	The Reporting Limit for this analyte has been raised to account for matrix interference.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 08, 2022

Sam Vogt

Civitas Resources

650 Southgate Drive

Windsor, CO 80550

RE: Culver MC 5-17 Tank Battery

Work Order #2211070

Enclosed are the results of analyses for samples received by Summit Scientific on 11/03/22 17:13. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury  
President





Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 14:46

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS24@11'	2211070-01	Soil	11/03/22 09:25	11/03/22 17:13
SS25@8.5'	2211070-02	Soil	11/03/22 10:31	11/03/22 17:13
SS26@10'	2211070-03	Soil	11/03/22 11:19	11/03/22 17:13
SS27@13'	2211070-04	Soil	11/03/22 11:32	11/03/22 17:13
SS28@10'	2211070-05	Soil	11/03/22 12:21	11/03/22 17:13
SS29@10'	2211070-06	Soil	11/03/22 12:29	11/03/22 17:13
SS30@13'	2211070-07	Soil	11/03/22 13:21	11/03/22 17:13
SS31@10'	2211070-08	Soil	11/03/22 13:24	11/03/22 17:13

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

# Summit Scientific


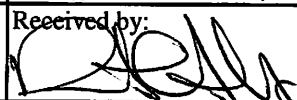
741 Corporate Circle Suite I ♦ Golden, Colorado 80401  
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client: Civitas/Tasman  
Address: 6855 W. 114th AVE.  
City/State/Zip: Broomfield, CO 80020  
Phone: 610-405-9078 Fax:   
Sampler Name: OH

Project Manager: Sara Vogt, Jacob Evans  
E-Mail: svogt@tasman-geo.com  
Project Name: Culver MC S-17 Tank Battery  
Project Number:

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analyze For:							Special Instructions		
				HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	BTEX	Naph	TMBs	TPH	PAHs	Lead		pH*	
SS24@11'	11.3.22	9:25	2			X			X				X	X	X	X	X	X		* Sat. Paste
SS25@2.5'		10:31																		
SS26@10'		11:19																		
SS27@13'		11:32																		
SS28@10'		12:21																		
SS29@10'		12:29																		
SS30@13'		13:21																		
SS31@10'		13:24																		

Relinquished by: 	Date/Time: 11.3.22 15:56	Received by: <u>Tasman Lockbox</u>	Date/Time: 11.3.22 15:56	Turn Around Time (Check)	Notes:
Relinquished by: <u>Tasman Lockbox</u>	Date/Time: 11.3.22 17:13	Received by: 	Date/Time: 11.3.22 17:13	Same Day <input checked="" type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input type="checkbox"/> 48 Hours <input type="checkbox"/>	
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: <u>6.8</u> Intact: Yes <input type="checkbox"/> No <input type="checkbox"/>	

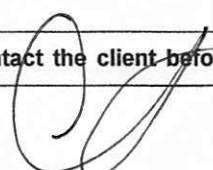
S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 221070Client: Civitas/Tasman Client Project ID: Culver Mc S-17 Tank BatteryShipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: \_\_\_\_\_

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Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 6.8Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6 °C <sup>(1)</sup> ? <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	—			on ICE
If custody seals are present, are they intact <sup>(1)</sup> ?	—			
Are samples due within 48 hours present?	—			same day
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen			—	
Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?	—			
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	—			
Were all samples received intact <sup>(1)</sup> ?	—			
Was adequate sample volume provided <sup>(1)</sup> ?	—			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	—			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	—			
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>			—	—
Are samples preserved that require preservation (excluding cooling) <sup>(1)</sup> ? Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.			—	
If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ? Record the pH in Comments.			—	
If dissolved metals are requested, were samples field filtered?			—	
Additional Comments (if any):				
<div style="text-align: center;">  </div>				
<div style="display: flex; justify-content: space-between;"> <div>(<sup>1</sup>) If NO, then contact the client before proceeding with analysis and note in case narrative.</div> <div> <u>11-3-22</u> Date/Time </div> </div>				

Custodian Printed Name

Date/Time



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 14:46

**SS24@11'**  
**2211070-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/03/22 09:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFK0115	11/03/22	11/03/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/03/22 09:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		95.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		91.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.1 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/03/22 09:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0116	11/03/22	11/04/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/03/22 09:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		112 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 14:46

**SS24@11'**  
**2211070-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/03/22 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0118	11/04/22	11/04/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/03/22 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		72.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		55.0 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B**

Date Sampled: **11/03/22 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	4.52	0.200	mg/kg dry	1	BFK0117	11/03/22	11/04/22	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/03/22 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 14:46

**SS24@11'**  
**2211070-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	90.8	%	1	BFK0133	11/04/22	11/05/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/03/22 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.93		pH Units	1	BFK0114	11/03/22	11/03/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 14:46

**SS25@8.5'**  
**2211070-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/03/22 10:31**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFK0115	11/03/22	11/03/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/03/22 10:31**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		135 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/03/22 10:31**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0116	11/03/22	11/04/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/03/22 10:31**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		116 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 14:46

**SS25@8.5'**  
**2211070-02 (Soil)**

### Summit Scientific

#### PAH by EPA Method 8270D SIM

Date Sampled: **11/03/22 10:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0118	11/04/22	11/05/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/03/22 10:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		64.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		47.7 %	40-150		"	"	"	"	

#### Total Metals by EPA 6020B

Date Sampled: **11/03/22 10:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	<b>5.50</b>	0.200	mg/kg dry	1	BFK0117	11/03/22	11/04/22	EPA 6020B	

#### Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/03/22 10:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 14:46

**SS25@8.5'**  
**2211070-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	87.8	%	1	BFK0133	11/04/22	11/05/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/03/22 10:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.24		pH Units	1	BFK0114	11/03/22	11/03/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 14:46

**SS26@10'**  
**2211070-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/03/22 11:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFK0115	11/03/22	11/04/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	<b>0.94</b>	0.38	"	100	"	"	"	"	
Gasoline Range Hydrocarbons	<b>1800</b>	50	"	"	"	"	"	"	

Date Sampled: **11/03/22 11:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		137 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		97.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		122 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/03/22 11:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	<b>540</b>	50	mg/kg	1	BFK0116	11/03/22	11/04/22	EPA 8015M	
C28-C36 (ORO)	<b>68</b>	50	"	"	"	"	"	"	

Date Sampled: **11/03/22 11:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		103 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 14:46

**SS26@10'**  
**2211070-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/03/22 11:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0118	11/04/22	11/05/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>0.0246</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (a) pyrene</b>	<b>0.0154</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (b) fluoranthene</b>	<b>0.0246</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (k) fluoranthene</b>	<b>0.00744</b>	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0712</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.0816</b>	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.103</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.0957</b>	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>2.53</b>	0.250	"	50	"	"	11/07/22	"	
<b>2-Methylnaphthalene</b>	<b>6.75</b>	0.250	"	"	"	"	"	"	

Date Sampled: **11/03/22 11:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		71.4 %	40-150		"	"	11/05/22	"	
Surrogate: Fluoranthene-d10		84.7 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B**

Date Sampled: **11/03/22 11:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Lead</b>	<b>3.44</b>	0.200	mg/kg dry	1	BFK0117	11/03/22	11/04/22	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/03/22 11:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>% Solids</b>	<b>81.8</b>		%	1	BFK0133	11/04/22	11/05/22	Calculation	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 14:46

**SS26@10'**  
**2211070-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/03/22 11:19**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>pH</b>	<b>8.13</b>			pH Units	1	BFK0114	11/03/22	11/03/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 14:46

**SS27@13'**  
**2211070-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/03/22 11:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFK0115	11/03/22	11/04/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	<b>0.16</b>	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	<b>5900</b>	50	"	100	"	"	"	"	

Date Sampled: **11/03/22 11:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		170 %	50-150		"	"	"	"	S-02
Surrogate: Toluene-d8		91.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		165 %	50-150		"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/03/22 11:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	<b>1800</b>	50	mg/kg	1	BFK0116	11/03/22	11/04/22	EPA 8015M	
C28-C36 (ORO)	<b>190</b>	50	"	"	"	"	"	"	

Date Sampled: **11/03/22 11:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		119 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 14:46

**SS27@13'**  
**2211070-04 (Soil)**

### Summit Scientific

#### PAH by EPA Method 8270D SIM

Date Sampled: **11/03/22 11:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0118	11/04/22	11/05/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0263</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.0453</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.00845</b>	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>1.30</b>	0.100	"	20	"	"	11/07/22	"	
<b>2-Methylnaphthalene</b>	<b>3.62</b>	0.100	"	"	"	"	"	"	

Date Sampled: **11/03/22 11:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		59.2 %	40-150		"	"	11/05/22	"	
Surrogate: Fluoranthene-d10		72.4 %	40-150		"	"	"	"	

#### Total Metals by EPA 6020B

Date Sampled: **11/03/22 11:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Lead</b>	<b>1.77</b>	0.200	mg/kg dry	1	BFK0117	11/03/22	11/04/22	EPA 6020B	

#### Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/03/22 11:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 14:46

**SS27@13'**  
**2211070-04 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	78.1	%	1	BFK0133	11/04/22	11/05/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/03/22 11:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.11		pH Units	1	BFK0114	11/03/22	11/03/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 14:46

**SS28@10'**  
**2211070-05 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/03/22 12:21**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFK0115	11/03/22	11/03/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/03/22 12:21**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		135 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/03/22 12:21**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0116	11/03/22	11/04/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/03/22 12:21**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		108 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 14:46

**SS28@10'**  
**2211070-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/03/22 12:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0118	11/04/22	11/05/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/03/22 12:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		59.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		41.4 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B**

Date Sampled: **11/03/22 12:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	<b>7.99</b>	0.200	mg/kg dry	1	BFK0117	11/03/22	11/04/22	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/03/22 12:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 14:46

**SS28@10'**  
**2211070-05 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	76.1	%	1	BFK0133	11/04/22	11/05/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/03/22 12:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.41		pH Units	1	BFK0114	11/03/22	11/03/22	EPA 9045D	

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 14:46

**SS29@10'**  
**2211070-06 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/03/22 12:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFK0115	11/03/22	11/04/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	<b>0.52</b>	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	<b>2100</b>	5.0	"	10	"	"	"	"	E

Date Sampled: **11/03/22 12:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		158 %	50-150		"	"	"	"	S-02
Surrogate: Toluene-d8		70.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		466 %	50-150		"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/03/22 12:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	<b>1000</b>	50	mg/kg	1	BFK0116	11/03/22	11/04/22	EPA 8015M	
C28-C36 (ORO)	<b>78</b>	50	"	"	"	"	"	"	

Date Sampled: **11/03/22 12:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		98.5 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 14:46

**SS29@10'**  
**2211070-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/03/22 12:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0118	11/04/22	11/05/22	EPA 8270D SIM	
<b>Anthracene</b>	<b>0.0966</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>0.0935</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (a) pyrene</b>	<b>0.0480</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (b) fluoranthene</b>	<b>0.0602</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (k) fluoranthene</b>	<b>0.0246</b>	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.104</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.556</b>	0.0500	"	10	"	"	11/07/22	"	
<b>Fluorene</b>	<b>0.108</b>	0.00500	"	1	"	"	11/05/22	"	
<b>Indeno (1,2,3-cd) pyrene</b>	<b>0.0115</b>	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.324</b>	0.0500	"	10	"	"	11/07/22	"	
<b>1-Methylnaphthalene</b>	<b>0.562</b>	0.0500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>1.16</b>	0.0500	"	"	"	"	"	"	

Date Sampled: **11/03/22 12:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		68.2 %	40-150		"	"	11/05/22	"	
Surrogate: Fluoranthene-d10		71.7 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B**

Date Sampled: **11/03/22 12:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Lead</b>	<b>4.25</b>	0.200	mg/kg dry	1	BFK0117	11/03/22	11/04/22	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/03/22 12:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>% Solids</b>	<b>84.2</b>		%	1	BFK0133	11/04/22	11/05/22	Calculation	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 14:46

**SS29@10'**  
**2211070-06 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/03/22 12:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>pH</b>	<b>9.05</b>			pH Units	1	BFK0114	11/03/22	11/03/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 14:46

**SS30@13'**  
**2211070-07 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/03/22 13:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFK0115	11/03/22	11/04/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	<b>0.077</b>	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	<b>2500</b>	5.0	"	10	"	"	"	"	E

Date Sampled: **11/03/22 13:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		184 %	50-150		"	"	"	"	S-02
Surrogate: Toluene-d8		58.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		400 %	50-150		"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/03/22 13:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	<b>820</b>	50	mg/kg	1	BFK0116	11/03/22	11/04/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/03/22 13:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		102 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 14:46

**SS30@13'**  
**2211070-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/03/22 13:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0118	11/04/22	11/05/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Benzo (a) pyrene</b>	<b>0.0114</b>	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0478</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.0849</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.0191</b>	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.676</b>	0.0500	"	10	"	"	11/07/22	"	
<b>2-Methylnaphthalene</b>	<b>1.47</b>	0.0500	"	"	"	"	"	"	

Date Sampled: **11/03/22 13:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		56.5 %	40-150		"	"	11/05/22	"	
Surrogate: Fluoranthene-d10		90.5 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B**

Date Sampled: **11/03/22 13:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Lead</b>	<b>2.14</b>	0.200	mg/kg dry	1	BFK0117	11/03/22	11/04/22	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/03/22 13:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 14:46

**SS30@13'**  
**2211070-07 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	76.4	%	1	BFK0133	11/04/22	11/05/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/03/22 13:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.51		pH Units	1	BFK0114	11/03/22	11/03/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 14:46

**SS31@10'**  
**2211070-08 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/03/22 13:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFK0115	11/03/22	11/04/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	<b>0.047</b>	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	<b>3700</b>	5.0	"	10	"	"	"	"	E

Date Sampled: **11/03/22 13:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		204 %	50-150		"	"	"	"	S-02
Surrogate: Toluene-d8		95.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		549 %	50-150		"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/03/22 13:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	<b>810</b>	50	mg/kg	1	BFK0116	11/03/22	11/04/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/03/22 13:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		90.6 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 14:46

**SS31@10'**  
**2211070-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/03/22 13:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0118	11/04/22	11/05/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>0.0997</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (a) pyrene</b>	<b>0.0573</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (b) fluoranthene</b>	<b>0.0867</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (k) fluoranthene</b>	<b>0.0330</b>	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.139</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.704</b>	0.100	"	20	"	"	11/07/22	"	
Fluorene	ND	0.00500	"	1	"	"	11/05/22	"	
<b>Indeno (1,2,3-cd) pyrene</b>	<b>0.0143</b>	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.461</b>	0.100	"	20	"	"	11/07/22	"	
<b>1-Methylnaphthalene</b>	<b>1.29</b>	0.100	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>2.84</b>	0.100	"	"	"	"	"	"	

Date Sampled: **11/03/22 13:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		82.7 %	40-150		"	"	11/05/22	"	
Surrogate: Fluoranthene-d10		99.4 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B**

Date Sampled: **11/03/22 13:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Lead</b>	<b>2.22</b>	0.200	mg/kg dry	1	BFK0117	11/03/22	11/04/22	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/03/22 13:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>% Solids</b>	<b>82.9</b>		%	1	BFK0133	11/04/22	11/05/22	Calculation	

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Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 14:46

**SS31@10'**  
**2211070-08 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/03/22 13:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>pH</b>	<b>8.56</b>			pH Units	1	BFK0114	11/03/22	11/03/22	EPA 9045D	

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 14:46

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFK0115 - EPA 5030 Soil MS

##### Blank (BFK0115-BLK1)

Prepared: 11/03/22 Analyzed: 11/04/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0428		"	0.0400		107	50-150			
Surrogate: Toluene-d8	0.0397		"	0.0400		99.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0411		"	0.0400		103	50-150			

##### LCS (BFK0115-BS1)

Prepared: 11/03/22 Analyzed: 11/04/22

Benzene	0.0923	0.0020	mg/kg	0.125		73.8	70-130			
Toluene	0.139	0.0050	"	0.125		111	70-130			
Ethylbenzene	0.159	0.0050	"	0.125		127	70-130			
m,p-Xylene	0.321	0.010	"	0.250		128	70-130			
o-Xylene	0.151	0.0050	"	0.125		121	70-130			
1,2,4-Trimethylbenzene	0.144	0.0050	"	0.125		115	70-130			
1,3,5-Trimethylbenzene	0.142	0.0050	"	0.125		114	70-130			
Naphthalene	0.130	0.0038	"	0.125		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0431		"	0.0400		108	50-150			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		100	50-150			

##### Matrix Spike (BFK0115-MS1)

Source: 2211070-01

Prepared: 11/03/22 Analyzed: 11/04/22

Benzene	0.0935	0.0020	mg/kg	0.125	ND	74.8	70-130			
Toluene	0.140	0.0050	"	0.125	ND	112	70-130			
Ethylbenzene	0.159	0.0050	"	0.125	ND	127	70-130			
m,p-Xylene	0.298	0.010	"	0.250	ND	119	70-130			
o-Xylene	0.154	0.0050	"	0.125	ND	123	70-130			
1,2,4-Trimethylbenzene	0.148	0.0050	"	0.125	ND	119	70-130			
1,3,5-Trimethylbenzene	0.145	0.0050	"	0.125	ND	116	70-130			
Naphthalene	0.143	0.0038	"	0.125	ND	115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0467		"	0.0400		117	50-150			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400		97.8	50-150			

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Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 14:46

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0115 - EPA 5030 Soil MS**

Matrix Spike Dup (BFK0115-MSD1)		Source: 2211070-01			Prepared: 11/03/22 Analyzed: 11/04/22					
Benzene	0.0935	0.0020	mg/kg	0.125	ND	74.8	70-130	0.0321	30	
Toluene	0.144	0.0050	"	0.125	ND	115	70-130	3.07	30	
Ethylbenzene	0.136	0.0050	"	0.125	ND	109	70-130	15.4	30	
m,p-Xylene	0.294	0.010	"	0.250	ND	117	70-130	1.48	30	
o-Xylene	0.161	0.0050	"	0.125	ND	128	70-130	4.00	30	
1,2,4-Trimethylbenzene	0.127	0.0050	"	0.125	ND	101	70-130	15.5	30	
1,3,5-Trimethylbenzene	0.124	0.0050	"	0.125	ND	99.4	70-130	15.4	30	
Naphthalene	0.156	0.0038	"	0.125	ND	125	70-130	8.53	30	
Surrogate: 1,2-Dichloroethane-d4		0.0493	"	0.0400		123	50-150			
Surrogate: Toluene-d8		0.0411	"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene		0.0407	"	0.0400		102	50-150			

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Civitas Resources  
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Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 14:46

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0116 - EPA 3550A**

**Blank (BFK0116-BLK1)**

Prepared: 11/03/22 Analyzed: 11/04/22

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	13.5		"	12.5		108	30-150			

**LCS (BFK0116-BS1)**

Prepared: 11/03/22 Analyzed: 11/04/22

C10-C28 (DRO)	492	50	mg/kg	500		98.4	70-130			
Surrogate: o-Terphenyl	12.7		"	12.5		102	30-150			

**Matrix Spike (BFK0116-MS1)**

Source: 2211070-01

Prepared: 11/03/22 Analyzed: 11/04/22

C10-C28 (DRO)	483	50	mg/kg	500	13.6	93.8	70-130			
Surrogate: o-Terphenyl	12.6		"	12.5		101	30-150			

**Matrix Spike Dup (BFK0116-MSD1)**

Source: 2211070-01

Prepared: 11/03/22 Analyzed: 11/04/22

C10-C28 (DRO)	462	50	mg/kg	500	13.6	89.6	70-130	4.41	20	
Surrogate: o-Terphenyl	11.7		"	12.5		93.5	30-150			

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 14:46

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

Analyte	Reporting			Spike		Source		%REC		RPD	
	Result	Limit	Units	Level		Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFK0118 - EPA 5030 Soil MS

##### Blank (BFK0118-BLK1)

Prepared & Analyzed: 11/04/22

Acenaphthene	ND	0.00500	mg/kg								
Anthracene	ND	0.00500	"								
Benzo (a) anthracene	ND	0.00500	"								
Benzo (a) pyrene	ND	0.00500	"								
Benzo (b) fluoranthene	ND	0.00500	"								
Benzo (k) fluoranthene	ND	0.00500	"								
Chrysene	ND	0.00500	"								
Dibenz (a,h) anthracene	ND	0.00500	"								
Fluoranthene	ND	0.00500	"								
Fluorene	ND	0.00500	"								
Indeno (1,2,3-cd) pyrene	ND	0.00500	"								
Pyrene	ND	0.00500	"								
1-Methylnaphthalene	ND	0.00500	"								
2-Methylnaphthalene	ND	0.00500	"								
Surrogate: 2-Methylnaphthalene-d10	0.0357		"	0.0333		107		40-150			
Surrogate: Fluoranthene-d10	0.0279		"	0.0333		83.7		40-150			

##### LCS (BFK0118-BS1)

Prepared & Analyzed: 11/04/22

Acenaphthene	0.0324	0.00500	mg/kg	0.0333		97.2		31-137			
Anthracene	0.0329	0.00500	"	0.0333		98.7		30-120			
Benzo (a) anthracene	0.0312	0.00500	"	0.0333		93.6		30-120			
Benzo (a) pyrene	0.0350	0.00500	"	0.0333		105		30-120			
Benzo (b) fluoranthene	0.0356	0.00500	"	0.0333		107		30-120			
Benzo (k) fluoranthene	0.0349	0.00500	"	0.0333		105		30-120			
Chrysene	0.0308	0.00500	"	0.0333		92.3		30-120			
Dibenz (a,h) anthracene	0.0344	0.00500	"	0.0333		103		30-120			
Fluoranthene	0.0340	0.00500	"	0.0333		102		30-120			
Fluorene	0.0342	0.00500	"	0.0333		103		30-120			
Indeno (1,2,3-cd) pyrene	0.0316	0.00500	"	0.0333		94.8		30-120			
Pyrene	0.0324	0.00500	"	0.0333		97.1		35-142			
1-Methylnaphthalene	0.0283	0.00500	"	0.0333		84.8		35-142			
2-Methylnaphthalene	0.0284	0.00500	"	0.0333		85.1		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0305		"	0.0333		91.6		40-150			
Surrogate: Fluoranthene-d10	0.0359		"	0.0333		108		40-150			

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 14:46

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

Analyte	Reporting			Spike Level	Source		%REC		RPD	
	Result	Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFK0118 - EPA 5030 Soil MS

##### Matrix Spike (BFK0118-MS1)

Source: 2211055-01

Prepared & Analyzed: 11/04/22

Acenaphthene	0.0287	0.00500	mg/kg	0.0333	ND	86.1	31-137		
Anthracene	0.0252	0.00500	"	0.0333	ND	75.7	30-120		
Benzo (a) anthracene	0.0252	0.00500	"	0.0333	ND	75.5	30-120		
Benzo (a) pyrene	0.0275	0.00500	"	0.0333	ND	82.6	30-120		
Benzo (b) fluoranthene	0.0289	0.00500	"	0.0333	ND	86.6	30-120		
Benzo (k) fluoranthene	0.0285	0.00500	"	0.0333	ND	85.6	30-120		
Chrysene	0.0235	0.00500	"	0.0333	ND	70.4	30-120		
Dibenz (a,h) anthracene	0.0276	0.00500	"	0.0333	ND	82.8	30-120		
Fluoranthene	0.0257	0.00500	"	0.0333	ND	77.1	30-120		
Fluorene	0.0277	0.00500	"	0.0333	ND	83.0	30-120		
Indeno (1,2,3-cd) pyrene	0.0251	0.00500	"	0.0333	ND	75.2	30-120		
Pyrene	0.0272	0.00500	"	0.0333	ND	81.7	35-142		
1-Methylnaphthalene	0.0224	0.00500	"	0.0333	ND	67.1	15-130		
2-Methylnaphthalene	0.0204	0.00500	"	0.0333	ND	61.1	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0227		"	0.0333		68.0	40-150		
Surrogate: Fluoranthene-d10	0.0266		"	0.0333		79.9	40-150		

##### Matrix Spike Dup (BFK0118-MSD1)

Source: 2211055-01

Prepared & Analyzed: 11/04/22

Acenaphthene	0.0293	0.00500	mg/kg	0.0333	ND	88.0	31-137	2.17	30
Anthracene	0.0246	0.00500	"	0.0333	ND	73.9	30-120	2.47	30
Benzo (a) anthracene	0.0248	0.00500	"	0.0333	ND	74.3	30-120	1.66	30
Benzo (a) pyrene	0.0279	0.00500	"	0.0333	ND	83.8	30-120	1.51	30
Benzo (b) fluoranthene	0.0287	0.00500	"	0.0333	ND	86.1	30-120	0.572	30
Benzo (k) fluoranthene	0.0282	0.00500	"	0.0333	ND	84.6	30-120	1.26	30
Chrysene	0.0232	0.00500	"	0.0333	ND	69.7	30-120	1.05	30
Dibenz (a,h) anthracene	0.0280	0.00500	"	0.0333	ND	84.1	30-120	1.52	30
Fluoranthene	0.0250	0.00500	"	0.0333	ND	74.9	30-120	2.92	30
Fluorene	0.0279	0.00500	"	0.0333	ND	83.6	30-120	0.704	30
Indeno (1,2,3-cd) pyrene	0.0259	0.00500	"	0.0333	ND	77.6	30-120	3.19	30
Pyrene	0.0245	0.00500	"	0.0333	ND	73.4	35-142	10.7	30
1-Methylnaphthalene	0.0221	0.00500	"	0.0333	ND	66.2	15-130	1.30	50
2-Methylnaphthalene	0.0205	0.00500	"	0.0333	ND	61.4	15-130	0.491	50
Surrogate: 2-Methylnaphthalene-d10	0.0226		"	0.0333		67.8	40-150		
Surrogate: Fluoranthene-d10	0.0264		"	0.0333		79.2	40-150		

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 14:46

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0117 - EPA 3050B**

**Blank (BFK0117-BLK1)**

Prepared: 11/03/22 Analyzed: 11/04/22

Lead ND 0.200 mg/kg wet

**LCS (BFK0117-BS1)**

Prepared: 11/03/22 Analyzed: 11/04/22

Lead 20.0 0.200 mg/kg wet 20.0 100 80-120

**Duplicate (BFK0117-DUP1)**

**Source: 2211053-05**

Prepared: 11/03/22 Analyzed: 11/04/22

Lead 3.76 0.200 mg/kg dry 3.92 4.18 20

**Matrix Spike (BFK0117-MS1)**

**Source: 2211053-05**

Prepared: 11/03/22 Analyzed: 11/04/22

Lead 24.6 0.200 mg/kg dry 24.1 3.92 85.7 75-125

**Matrix Spike Dup (BFK0117-MSD1)**

**Source: 2211053-05**

Prepared: 11/03/22 Analyzed: 11/04/22

Lead 27.9 0.200 mg/kg dry 24.1 3.92 99.4 75-125 12.6 25

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]

Project Manager: Sam Vogt

**Reported:**

11/08/22 14:46

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0133 - General Preparation**

Duplicate (BFK0133-DUP1)		Source: 2211037-01		Prepared: 11/04/22 Analyzed: 11/05/22	
% Solids	74.3		%	75.0	0.980 20

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 14:46

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0114 - General Preparation**

**LCS (BFK0114-BS1)**

Prepared & Analyzed: 11/03/22

pH	9.01	pH Units	9.18	98.1	95-105
----	------	----------	------	------	--------

**Duplicate (BFK0114-DUP1)**

Source: 2211070-01

Prepared & Analyzed: 11/03/22

pH	7.93	pH Units	7.93	0.00	20
----	------	----------	------	------	----

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/08/22 14:46

### Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 09, 2022

Sam Vogt

Civitas Resources

650 Southgate Drive

Windsor, CO 80550

RE: Culver MC 5-17 Tank Battery

Work Order #2211102

Enclosed are the results of analyses for samples received by Summit Scientific on 11/07/22 17:04. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury  
President



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 16:03

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS32@10'	2211102-01	Soil	11/07/22 08:42	11/07/22 17:04
SS33@10'	2211102-02	Soil	11/07/22 10:20	11/07/22 17:04
SS34@8.5'	2211102-03	Soil	11/07/22 10:22	11/07/22 17:04
SS35@10'	2211102-04	Soil	11/07/22 11:10	11/07/22 17:04
SS36@8.5'	2211102-05	Soil	11/07/22 11:17	11/07/22 17:04
SS37@8.5'	2211102-06	Soil	11/07/22 11:24	11/07/22 17:04
SS38@10'	2211102-07	Soil	11/07/22 13:46	11/07/22 17:04
SS39@10'	2211102-08	Soil	11/07/22 15:03	11/07/22 17:04

Summit Scientific

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2211102

# Summit Scientific

741 Corporate Circle Suite I ♦ Golden, Colorado 80401  
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client: Civitas/Tasman  
Address: 6855 W. 119th Ave.  
City/State/Zip: Broomfield, CO 80020  
Phone: 610-405-9078 Fax:   
Sampler Name: DA

Project Manager: Sam Vogt, Jacob Evans  
E-Mail: svogt@tasmaneng.co.com, j.evans@civiresources.com  
Project Name: Culver MC S-17 TB  
Project Number:

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix		Analyze For:							* Sat. Paste	Special Instructions	
				HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	BTEX	Naph	TUUS	TPH	PAHs			Lead
SS32@10'	11.7.22	8:42	2			X			X				X	X	X	X	X		
SS33@10'		10:20																	
SS34@8.5'		10:22																	
SS35@10'		11:10																	
SS36@8.5'		11:19																	
SS37@8.5'		11:24																	
SS38@10'		13:46																	
SS39@10'		15:03																	

Relinquished by: <u>[Signature]</u>	Date/Time: <u>11.7.22 15:51</u>	Received by: <u>Tasman Lockbox</u>	Date/Time: <u>11.7.22 15:51</u>	<b>Turn Around Time (Check)</b> Same Day <input checked="" type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/>	Notes:
Relinquished by: <u>Tasman Lockbox</u>	Date/Time: <u>11.7.22 17:04</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11.7.22 17:04</u>		
Relinquished by: <u></u>	Date/Time: <u></u>	Received in Lab by: <u></u>	Date/Time: <u></u>		
<b>Sample Integrity:</b> Temperature Upon Receipt: <u>11.9</u> Intact: Yes <input type="checkbox"/> No <input type="checkbox"/>					

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 221102Client: ConFastasman Client Project ID: Culver Me S-17 TB

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other \_\_\_\_\_ Airbill #: \_\_\_\_\_

	-			
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Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 11.9Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6 °C <sup>(1)</sup> ? <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	-			on ice
If custody seals are present, are they intact <sup>(1)</sup> ?	-			
Are samples due within 48 hours present?	-			Same day
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen			-	
Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?	-			
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	-			
Were all samples received intact <sup>(1)</sup> ?	-			
Was adequate sample volume provided <sup>(1)</sup> ?	-			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	-			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	-			
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>			-	-
Are samples preserved that require preservation <b>(excluding cooling)</b> <sup>(1)</sup> ? Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.			-	
If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ? Record the pH in Comments.			-	
If dissolved metals are requested, were samples field filtered?			-	

Additional Comments (if any):

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

Custodian Printed Name

Date/Time

11.7.22





Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 16:03

**SS32@10'**  
**2211102-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/07/22 08:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFK0186	11/07/22	11/07/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/07/22 08:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		83.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		110 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/07/22 08:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0187	11/07/22	11/07/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/07/22 08:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		102 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 16:03

**SS32@10'**  
**2211102-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/07/22 08:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0200	11/08/22	11/09/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>0.0214</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (a) pyrene</b>	<b>0.00828</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (b) fluoranthene</b>	<b>0.0112</b>	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0273</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.0747</b>	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.0472</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.0762</b>	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.177</b>	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/07/22 08:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		95.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		59.2 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B**

Date Sampled: **11/07/22 08:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Lead</b>	<b>7.12</b>	0.200	mg/kg dry	1	BFK0193	11/07/22	11/08/22	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/07/22 08:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 16:03

**SS32@10'**  
**2211102-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	82.8	%	1	BFK0204	11/08/22	11/08/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/07/22 08:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.19		pH Units	1	BFK0192	11/07/22	11/07/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 16:03

**SS33@10'**  
**2211102-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/07/22 10:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFK0186	11/07/22	11/07/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>210</b>	50	"	100	"	"	"	"	

Date Sampled: **11/07/22 10:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		78.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/07/22 10:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>C10-C28 (DRO)</b>	<b>260</b>	50	mg/kg	1	BFK0187	11/07/22	11/07/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/07/22 10:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		90.8 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 16:03

**SS33@10'**  
**2211102-02 (Soil)**

### Summit Scientific

#### PAH by EPA Method 8270D SIM

Date Sampled: **11/07/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0200	11/08/22	11/09/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0396</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.0499</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.0143</b>	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/07/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		70.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		111 %	40-150		"	"	"	"	

#### Total Metals by EPA 6020B

Date Sampled: **11/07/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Lead</b>	<b>2.83</b>	0.200	mg/kg dry	1	BFK0193	11/07/22	11/08/22	EPA 6020B	

#### Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/07/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 16:03

**SS33@10'**  
**2211102-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	81.7	%	1	BFK0204	11/08/22	11/08/22	Calculation
----------	------	---	---	---------	----------	----------	-------------

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/07/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.05		pH Units	1	BFK0192	11/07/22	11/07/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 16:03

**SS34@8.5'**  
**2211102-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/07/22 10:22**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFK0186	11/07/22	11/07/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/07/22 10:22**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		88.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		107 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/07/22 10:22**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0187	11/07/22	11/07/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/07/22 10:22**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		107 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 16:03

**SS34@8.5'**  
**2211102-03 (Soil)**

### Summit Scientific

#### PAH by EPA Method 8270D SIM

Date Sampled: **11/07/22 10:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0200	11/08/22	11/09/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/07/22 10:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		56.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		56.1 %	40-150		"	"	"	"	

#### Total Metals by EPA 6020B

Date Sampled: **11/07/22 10:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	11.5	0.200	mg/kg dry	1	BFK0193	11/07/22	11/08/22	EPA 6020B	

#### Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/07/22 10:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 16:03

**SS34@8.5'**  
**2211102-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	78.2	%	1	BFK0204	11/08/22	11/08/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/07/22 10:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.99		pH Units	1	BFK0192	11/07/22	11/07/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 16:03

**SS35@10'**  
**2211102-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/07/22 11:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFK0186	11/07/22	11/07/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>62</b>	0.50	"	"	"	"	"	"	

Date Sampled: **11/07/22 11:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		92.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		61.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		124 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/07/22 11:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>C10-C28 (DRO)</b>	<b>130</b>	50	mg/kg	1	BFK0187	11/07/22	11/07/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/07/22 11:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		101 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 16:03

**SS35@10'**  
**2211102-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/07/22 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0200	11/08/22	11/09/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.00733</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.0508</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.327</b>	0.0100	"	2	"	"	11/09/22	"	
<b>2-Methylnaphthalene</b>	<b>0.176</b>	0.0100	"	"	"	"	"	"	

Date Sampled: **11/07/22 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		91.2 %	40-150		"	"	11/09/22	"	
Surrogate: Fluoranthene-d10		68.2 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B**

Date Sampled: **11/07/22 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Lead</b>	<b>9.87</b>	0.200	mg/kg dry	1	BFK0193	11/07/22	11/08/22	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/07/22 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 16:03

**SS35@10'**  
**2211102-04 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	79.7	%	1	BFK0204	11/08/22	11/08/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/07/22 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.54		pH Units	1	BFK0192	11/07/22	11/07/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 16:03

**SS36@8.5'**  
**2211102-05 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/07/22 11:17**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFK0186	11/07/22	11/07/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/07/22 11:17**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		99.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		111 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/07/22 11:17**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0187	11/07/22	11/07/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/07/22 11:17**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		101 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 16:03

**SS36@8.5'**  
**2211102-05 (Soil)**

### Summit Scientific

#### PAH by EPA Method 8270D SIM

Date Sampled: **11/07/22 11:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0200	11/08/22	11/09/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/07/22 11:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		53.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		44.0 %	40-150		"	"	"	"	

#### Total Metals by EPA 6020B

Date Sampled: **11/07/22 11:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	<b>6.54</b>	0.200	mg/kg dry	1	BFK0193	11/07/22	11/08/22	EPA 6020B	

#### Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/07/22 11:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 16:03

**SS36@8.5'**  
**2211102-05 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	87.8	%	1	BFK0204	11/08/22	11/08/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/07/22 11:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.30		pH Units	1	BFK0192	11/07/22	11/07/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 16:03

**SS37@8.5'**  
**2211102-06 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/07/22 11:24**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFK0186	11/07/22	11/07/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/07/22 11:24**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		96.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		109 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/07/22 11:24**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0187	11/07/22	11/08/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/07/22 11:24**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		99.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 16:03

**SS37@8.5'**  
**2211102-06 (Soil)**

### Summit Scientific

#### PAH by EPA Method 8270D SIM

Date Sampled: **11/07/22 11:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0200	11/08/22	11/09/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/07/22 11:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		57.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		66.4 %	40-150		"	"	"	"	

#### Total Metals by EPA 6020B

Date Sampled: **11/07/22 11:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	<b>6.13</b>	0.200	mg/kg dry	1	BFK0193	11/07/22	11/08/22	EPA 6020B	

#### Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/07/22 11:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 16:03

**SS37@8.5'**  
**2211102-06 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	90.2	%	1	BFK0204	11/08/22	11/08/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/07/22 11:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.48		pH Units	1	BFK0192	11/07/22	11/07/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 16:03

**SS38@10'**  
**2211102-07 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/07/22 13:46**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFK0186	11/07/22	11/07/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/07/22 13:46**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		88.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		110 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/07/22 13:46**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0187	11/07/22	11/08/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/07/22 13:46**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		95.1 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 16:03

**SS38@10'**  
**2211102-07 (Soil)**

### Summit Scientific

#### PAH by EPA Method 8270D SIM

Date Sampled: **11/07/22 13:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0200	11/08/22	11/09/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/07/22 13:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		60.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		63.9 %	40-150		"	"	"	"	

#### Total Metals by EPA 6020B

Date Sampled: **11/07/22 13:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	<b>10.9</b>	0.200	mg/kg dry	1	BFK0193	11/07/22	11/08/22	EPA 6020B	

#### Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/07/22 13:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 16:03

**SS38@10'**  
**2211102-07 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	80.9	%	1	BFK0204	11/08/22	11/08/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/07/22 13:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.30		pH Units	1	BFK0192	11/07/22	11/07/22	EPA 9045D	

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Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 16:03

**SS39@10'**  
**2211102-08 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/07/22 15:03**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFK0186	11/07/22	11/07/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>4.1</b>	0.50	"	"	"	"	"	"	

Date Sampled: **11/07/22 15:03**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		81.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		118 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		124 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/07/22 15:03**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0187	11/07/22	11/08/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/07/22 15:03**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		87.1 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 16:03

**SS39@10'**  
**2211102-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/07/22 15:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0200	11/08/22	11/09/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0127</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.00656</b>	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.0472</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/07/22 15:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		97.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		86.5 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B**

Date Sampled: **11/07/22 15:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Lead</b>	<b>4.13</b>	0.200	mg/kg dry	1	BFK0193	11/07/22	11/08/22	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/07/22 15:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 16:03

**SS39@10'**  
**2211102-08 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	83.8	%	1	BFK0204	11/08/22	11/08/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/07/22 15:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.58		pH Units	1	BFK0192	11/07/22	11/07/22	EPA 9045D	

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 16:03

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

Analyte	Reporting			Spike Level	Source		%REC		RPD	
	Result	Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFK0186 - EPA 5030 Soil MS

##### Blank (BFK0186-BLK1)

Prepared: 11/07/22 Analyzed: 11/08/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0388		"	0.0400		97.0	50-150			
Surrogate: Toluene-d8	0.0453		"	0.0400		113	50-150			
Surrogate: 4-Bromofluorobenzene	0.0384		"	0.0400		96.0	50-150			

##### LCS (BFK0186-BS1)

Prepared: 11/07/22 Analyzed: 11/08/22

Benzene	0.0766	0.0020	mg/kg	0.0750		102	70-130			
Toluene	0.0730	0.0050	"	0.0750		97.3	70-130			
Ethylbenzene	0.0748	0.0050	"	0.0750		99.7	70-130			
m,p-Xylene	0.150	0.010	"	0.150		100	70-130			
o-Xylene	0.0776	0.0050	"	0.0750		103	70-130			
1,2,4-Trimethylbenzene	0.0844	0.0050	"	0.0750		113	70-130			
1,3,5-Trimethylbenzene	0.0830	0.0050	"	0.0750		111	70-130			
Naphthalene	0.0734	0.0038	"	0.0750		97.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0326		"	0.0400		81.5	50-150			
Surrogate: Toluene-d8	0.0443		"	0.0400		111	50-150			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		101	50-150			

##### Matrix Spike (BFK0186-MS1)

Source: 2211101-01

Prepared: 11/07/22 Analyzed: 11/08/22

Benzene	0.0749	0.0020	mg/kg	0.0750	ND	99.9	70-130			
Toluene	0.0725	0.0050	"	0.0750	ND	96.6	70-130			
Ethylbenzene	0.0726	0.0050	"	0.0750	ND	96.8	70-130			
m,p-Xylene	0.150	0.010	"	0.150	ND	100	70-130			
o-Xylene	0.0765	0.0050	"	0.0750	ND	102	70-130			
1,2,4-Trimethylbenzene	0.0854	0.0050	"	0.0750	ND	114	70-130			
1,3,5-Trimethylbenzene	0.0814	0.0050	"	0.0750	ND	109	70-130			
Naphthalene	0.0709	0.0038	"	0.0750	ND	94.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0364		"	0.0400		91.0	50-150			
Surrogate: Toluene-d8	0.0437		"	0.0400		109	50-150			
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400		101	50-150			

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 16:03

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0186 - EPA 5030 Soil MS**

Matrix Spike Dup (BFK0186-MSD1)		Source: 2211101-01			Prepared: 11/07/22 Analyzed: 11/08/22					
Benzene	0.0747	0.0020	mg/kg	0.0750	ND	99.6	70-130	0.241	30	
Toluene	0.0758	0.0050	"	0.0750	ND	101	70-130	4.41	30	
Ethylbenzene	0.0743	0.0050	"	0.0750	ND	99.1	70-130	2.33	30	
m,p-Xylene	0.154	0.010	"	0.150	ND	103	70-130	2.60	30	
o-Xylene	0.0790	0.0050	"	0.0750	ND	105	70-130	3.20	30	
1,2,4-Trimethylbenzene	0.0856	0.0050	"	0.0750	ND	114	70-130	0.351	30	
1,3,5-Trimethylbenzene	0.0832	0.0050	"	0.0750	ND	111	70-130	2.22	30	
Naphthalene	0.0590	0.0038	"	0.0750	ND	78.6	70-130	18.3	30	
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	0.0371		"	0.0400		92.7	50-150			
Surrogate: Toluene-d8	0.0469		"	0.0400		117	50-150			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		98.9	50-150			

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 16:03

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0187 - EPA 3550A**

**Blank (BFK0187-BLK1)**

Prepared & Analyzed: 11/07/22

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

Surrogate: o-Terphenyl	11.6	"	12.5	93.2	30-150
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**LCS (BFK0187-BS1)**

Prepared & Analyzed: 11/07/22

C10-C28 (DRO)	368	50	mg/kg	500	73.6	70-130
Surrogate: o-Terphenyl	11.2	"	12.5	89.4	30-150	

**Matrix Spike (BFK0187-MS1)**

Source: 2211098-01

Prepared: 11/07/22 Analyzed: 11/08/22

C10-C28 (DRO)	488	50	mg/kg	500	10.1	95.5	70-130
Surrogate: o-Terphenyl	12.7	"	12.5	102	30-150		

**Matrix Spike Dup (BFK0187-MSD1)**

Source: 2211098-01

Prepared: 11/07/22 Analyzed: 11/08/22

C10-C28 (DRO)	482	50	mg/kg	500	10.1	94.4	70-130	1.15	20
Surrogate: o-Terphenyl	12.7	"	12.5	102	30-150				

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 16:03

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

Analyte	Reporting			Spike		Source		%REC		RPD	
	Result	Limit	Units	Level		Result		%REC	Limits	RPD	Limit
Notes											

#### Batch BFK0200 - EPA 5030 Soil MS

##### Blank (BFK0200-BLK1)

Prepared & Analyzed: 11/08/22

Acenaphthene	ND	0.00500	mg/kg								
Anthracene	ND	0.00500	"								
Benzo (a) anthracene	ND	0.00500	"								
Benzo (a) pyrene	ND	0.00500	"								
Benzo (b) fluoranthene	ND	0.00500	"								
Benzo (k) fluoranthene	ND	0.00500	"								
Chrysene	ND	0.00500	"								
Dibenz (a,h) anthracene	ND	0.00500	"								
Fluoranthene	ND	0.00500	"								
Fluorene	ND	0.00500	"								
Indeno (1,2,3-cd) pyrene	ND	0.00500	"								
Pyrene	ND	0.00500	"								
1-Methylnaphthalene	ND	0.00500	"								
2-Methylnaphthalene	ND	0.00500	"								
Surrogate: 2-Methylnaphthalene-d10	0.0306		"	0.0333		91.9		40-150			
Surrogate: Fluoranthene-d10	0.0353		"	0.0333		106		40-150			

##### LCS (BFK0200-BS1)

Prepared & Analyzed: 11/08/22

Acenaphthene	0.0309	0.00500	mg/kg	0.0333		92.6		31-137			
Anthracene	0.0303	0.00500	"	0.0333		90.8		30-120			
Benzo (a) anthracene	0.0311	0.00500	"	0.0333		93.3		30-120			
Benzo (a) pyrene	0.0306	0.00500	"	0.0333		91.9		30-120			
Benzo (b) fluoranthene	0.0306	0.00500	"	0.0333		91.9		30-120			
Benzo (k) fluoranthene	0.0307	0.00500	"	0.0333		92.1		30-120			
Chrysene	0.0317	0.00500	"	0.0333		95.1		30-120			
Dibenz (a,h) anthracene	0.0289	0.00500	"	0.0333		86.7		30-120			
Fluoranthene	0.0284	0.00500	"	0.0333		85.1		30-120			
Fluorene	0.0308	0.00500	"	0.0333		92.4		30-120			
Indeno (1,2,3-cd) pyrene	0.0219	0.00500	"	0.0333		65.7		30-120			
Pyrene	0.0275	0.00500	"	0.0333		82.6		35-142			
1-Methylnaphthalene	0.0217	0.00500	"	0.0333		65.0		35-142			
2-Methylnaphthalene	0.0294	0.00500	"	0.0333		88.1		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0247		"	0.0333		74.2		40-150			
Surrogate: Fluoranthene-d10	0.0301		"	0.0333		90.3		40-150			

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 16:03

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

Analyte	Reporting			Spike Level	Source		%REC		RPD	
	Result	Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFK0200 - EPA 5030 Soil MS

##### Matrix Spike (BKF0200-MS1)

Source: 2211101-01

Prepared & Analyzed: 11/08/22

Acenaphthene	0.0156	0.00500	mg/kg	0.0333	ND	46.8	31-137		
Anthracene	0.0147	0.00500	"	0.0333	ND	44.2	30-120		
Benzo (a) anthracene	0.0143	0.00500	"	0.0333	ND	42.9	30-120		
Benzo (a) pyrene	0.0166	0.00500	"	0.0333	ND	49.9	30-120		
Benzo (b) fluoranthene	0.0142	0.00500	"	0.0333	ND	42.5	30-120		
Benzo (k) fluoranthene	0.0155	0.00500	"	0.0333	ND	46.4	30-120		
Chrysene	0.0146	0.00500	"	0.0333	ND	43.9	30-120		
Dibenz (a,h) anthracene	0.0164	0.00500	"	0.0333	ND	49.1	30-120		
Fluoranthene	0.0134	0.00500	"	0.0333	ND	40.1	30-120		
Fluorene	0.0154	0.00500	"	0.0333	ND	46.3	30-120		
Indeno (1,2,3-cd) pyrene	0.0145	0.00500	"	0.0333	ND	43.4	30-120		
Pyrene	0.0204	0.00500	"	0.0333	ND	61.2	35-142		
1-Methylnaphthalene	0.0168	0.00500	"	0.0333	ND	50.3	15-130		
2-Methylnaphthalene	0.0156	0.00500	"	0.0333	ND	46.9	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0157		"	0.0333		47.2	40-150		
Surrogate: Fluoranthene-d10	0.0140		"	0.0333		42.0	40-150		

##### Matrix Spike Dup (BKF0200-MSD1)

Source: 2211101-01

Prepared & Analyzed: 11/08/22

Acenaphthene	0.0182	0.00500	mg/kg	0.0333	ND	54.5	31-137	15.1	30
Anthracene	0.0166	0.00500	"	0.0333	ND	49.9	30-120	12.2	30
Benzo (a) anthracene	0.0162	0.00500	"	0.0333	ND	48.5	30-120	12.3	30
Benzo (a) pyrene	0.0147	0.00500	"	0.0333	ND	44.1	30-120	12.2	30
Benzo (b) fluoranthene	0.0146	0.00500	"	0.0333	ND	43.9	30-120	3.42	30
Benzo (k) fluoranthene	0.0151	0.00500	"	0.0333	ND	45.4	30-120	2.25	30
Chrysene	0.0165	0.00500	"	0.0333	ND	49.6	30-120	12.2	30
Dibenz (a,h) anthracene	0.0151	0.00500	"	0.0333	ND	45.2	30-120	8.29	30
Fluoranthene	0.0146	0.00500	"	0.0333	ND	43.9	30-120	9.00	30
Fluorene	0.0173	0.00500	"	0.0333	ND	51.8	30-120	11.1	30
Indeno (1,2,3-cd) pyrene	0.0160	0.00500	"	0.0333	ND	48.1	30-120	10.3	30
Pyrene	0.0179	0.00500	"	0.0333	ND	53.8	35-142	12.9	30
1-Methylnaphthalene	0.0187	0.00500	"	0.0333	ND	56.1	15-130	10.8	50
2-Methylnaphthalene	0.0193	0.00500	"	0.0333	ND	57.9	15-130	21.0	50
Surrogate: 2-Methylnaphthalene-d10	0.0185		"	0.0333		55.6	40-150		
Surrogate: Fluoranthene-d10	0.0162		"	0.0333		48.7	40-150		

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 16:03

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0193 - EPA 3050B**

**Blank (BFK0193-BLK1)**

Prepared: 11/07/22 Analyzed: 11/08/22

Lead ND 0.200 mg/kg wet

**LCS (BFK0193-BS1)**

Prepared: 11/07/22 Analyzed: 11/08/22

Lead 22.3 0.200 mg/kg wet 20.0 111 80-120

**Duplicate (BFK0193-DUP1)**

**Source: 2210447-02**

Prepared: 11/07/22 Analyzed: 11/09/22

Lead 21.4 0.200 mg/kg dry 19.6 8.44 20

**Matrix Spike (BFK0193-MS1)**

**Source: 2210447-02**

Prepared: 11/07/22 Analyzed: 11/08/22

Lead 33.9 0.200 mg/kg dry 25.7 19.6 55.5 75-125 QM-05

**Matrix Spike Dup (BFK0193-MSD1)**

**Source: 2210447-02**

Prepared: 11/07/22 Analyzed: 11/08/22

Lead 43.5 0.200 mg/kg dry 25.7 19.6 93.1 75-125 25.0 25

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 16:03

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0204 - General Preparation**

Duplicate (BFK0204-DUP1)		Source: 2211098-01		Prepared & Analyzed: 11/08/22						
% Solids	91.2		%		91.8			0.700	20	

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 16:03

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0192 - General Preparation**

**LCS (BFK0192-BS1)**

Prepared & Analyzed: 11/07/22

pH	9.01	pH Units	9.18	98.1	95-105
----	------	----------	------	------	--------

**Duplicate (BFK0192-DUP1)**

Source: 2211103-01

Prepared & Analyzed: 11/07/22

pH	8.83	pH Units	8.83	0.00	20
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/09/22 16:03

### Notes and Definitions

QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 14, 2022

Sam Vogt

Civitas Resources

650 Southgate Drive

Windsor, CO 80550

RE: Culver MC 5-17 Tank Battery

Work Order #2211134

Enclosed are the results of analyses for samples received by Summit Scientific on 11/08/22 17:16. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury

President



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: AFE# 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 13:20

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS40@8.5'	2211134-01	Soil	11/08/22 09:20	11/08/22 17:16
SS41@11'	2211134-02	Soil	11/08/22 09:35	11/08/22 17:16
SS42@8.5'	2211134-03	Soil	11/08/22 09:42	11/08/22 17:16
SS43@11'	2211134-04	Soil	11/08/22 12:10	11/08/22 17:16
SS44@8.5'	2211134-05	Soil	11/08/22 12:15	11/08/22 17:16

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# Summit Scientific

Page 1 of 1

Project Manager: Sam Vogt, Jacob Evans  
E-Mail: Svogt@tasman-gco.com, Jevans@civiresources.com  
Project Name: Calves mc 5-17 TB  
Project Number: AFE #22071

[illegible]

S<sub>2</sub>

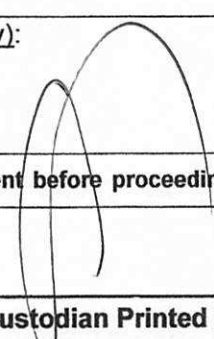
## Sample Receipt Checklist

S2 Work Order# 921134Client: CinTas/Trasman Client Project ID: Culver MC 5-17 TB

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other \_\_\_\_\_ Airbill #: \_\_\_\_\_

	-			
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Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 7.9Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6 °C <sup>(1)</sup> ? <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	-			on ICE
If custody seals are present, are they intact <sup>(1)</sup> ?	-			
Are samples due within 48 hours present?	-			Same day
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen			-	
Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?	-			
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	-			
Were all samples received intact <sup>(1)</sup> ?	-			
Was adequate sample volume provided <sup>(1)</sup> ?	-			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	-			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	-			
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>			-	-
Are samples preserved that require preservation (excluding cooling) <sup>(1)</sup> ? Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.			-	
If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ? Record the pH in Comments.			-	
If dissolved metals are requested, were samples field filtered?			✓	
Additional Comments (if any):  				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

Custodian Printed Name

Date/Time

11-8-22



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: AFE# 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 13:20

**SS40@8.5'**  
**2211134-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/08/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFK0220	11/08/22	11/09/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/08/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		94.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		109 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/08/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0221	"	11/09/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/08/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		91.7 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: AFE# 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 13:20

**SS40@8.5'**  
**2211134-01 (Soil)**

### Summit Scientific

#### PAH by EPA Method 8270D SIM

Date Sampled: **11/08/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0226	11/09/22	11/09/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/08/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		40.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		53.7 %	40-150		"	"	"	"	

#### Total Metals by EPA 6020B

Date Sampled: **11/08/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	12.5	0.200	mg/kg dry	1	BFK0219	11/08/22	11/09/22	EPA 6020B	

#### Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/08/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: AFE# 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 13:20

**SS40@8.5'**  
**2211134-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	76.5	%	1	BFK0234	11/09/22	11/10/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/08/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.82		pH Units	1	BFK0222	11/08/22	11/08/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: AFE# 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 13:20

**SS41@11'**  
**2211134-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/08/22 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFK0220	11/08/22	11/09/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	<b>0.056</b>	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	<b>13</b>	0.50	"	"	"	"	"	"	

Date Sampled: **11/08/22 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		89.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		76.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		141 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/08/22 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	<b>94</b>	50	mg/kg	1	BFK0221	"	11/09/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/08/22 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		85.6 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: AFE# 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 13:20

**SS41@11'**  
**2211134-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/08/22 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0226	11/09/22	11/09/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/08/22 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		82.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		70.5 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B**

Date Sampled: **11/08/22 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	<b>5.82</b>	0.200	mg/kg dry	1	BFK0219	11/08/22	11/09/22	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/08/22 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: AFE# 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 13:20

**SS41@11'**  
**2211134-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	95.3	%	1	BFK0234	11/09/22	11/10/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/08/22 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.31		pH Units	1	BFK0222	11/08/22	11/08/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery  
Project Number: AFE# 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 13:20

**SS42@8.5'**  
**2211134-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/08/22 09:42**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFK0220	11/08/22	11/09/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/08/22 09:42**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		95.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		110 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		114 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/08/22 09:42**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0221	"	11/09/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/08/22 09:42**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		81.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: AFE# 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 13:20

**SS42@8.5'**  
**2211134-03 (Soil)**

### Summit Scientific

#### PAH by EPA Method 8270D SIM

Date Sampled: **11/08/22 09:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0226	11/09/22	11/09/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/08/22 09:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		60.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		49.1 %	40-150		"	"	"	"	

#### Total Metals by EPA 6020B

Date Sampled: **11/08/22 09:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	9.20	0.200	mg/kg dry	1	BFK0219	11/08/22	11/09/22	EPA 6020B	

#### Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/08/22 09:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: AFE# 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 13:20

**SS42@8.5'**  
**2211134-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	81.9	%	1	BFK0234	11/09/22	11/10/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/08/22 09:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.73		pH Units	1	BFK0222	11/08/22	11/08/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: AFE# 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 13:20

**SS43@11'**  
**2211134-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/08/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFK0220	11/08/22	11/09/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>1.6</b>	<b>0.50</b>	"	"	"	"	"	"	

Date Sampled: **11/08/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		93.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		115 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		132 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/08/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0221	"	11/09/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/08/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		72.1 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: AFE# 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 13:20

**SS43@11'**  
**2211134-04 (Soil)**

### Summit Scientific

#### PAH by EPA Method 8270D SIM

Date Sampled: **11/08/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0226	11/09/22	11/09/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/08/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		66.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		73.1 %	40-150		"	"	"	"	

#### Total Metals by EPA 6020B

Date Sampled: **11/08/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	2.74	0.200	mg/kg dry	1	BFK0219	11/08/22	11/09/22	EPA 6020B	

#### Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/08/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery  
Project Number: AFE# 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 13:20

**SS43@11'**  
**2211134-04 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	86.4	%	1	BFK0234	11/09/22	11/10/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/08/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.07		pH Units	1	BFK0222	11/08/22	11/08/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: AFE# 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 13:20

**SS44@8.5'**  
**2211134-05 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/08/22 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFK0220	11/08/22	11/09/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/08/22 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		88.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		110 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		121 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/08/22 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0221	"	11/09/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/08/22 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		96.9 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery  
Project Number: AFE# 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 13:20

**SS44@8.5'**  
**2211134-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/08/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0226	11/09/22	11/09/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/08/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		43.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		51.8 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B**

Date Sampled: **11/08/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	12.1	0.200	mg/kg dry	1	BFK0219	11/08/22	11/09/22	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/08/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: AFE# 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 13:20

**SS44@8.5'**  
**2211134-05 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	77.5	%	1	BFK0234	11/09/22	11/10/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/08/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.44		pH Units	1	BFK0222	11/08/22	11/08/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery  
Project Number: AFE# 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 13:20

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

Analyte	Reporting			Spike Level	Source		%REC		RPD	
	Result	Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFK0220 - EPA 5030 Soil MS

##### Blank (BFK0220-BLK1)

Prepared: 11/08/22 Analyzed: 11/09/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0400		"	0.0400		100	50-150			
Surrogate: Toluene-d8	0.0386		"	0.0400		96.5	50-150			
Surrogate: 4-Bromofluorobenzene	0.0447		"	0.0400		112	50-150			

##### LCS (BFK0220-BS1)

Prepared: 11/08/22 Analyzed: 11/09/22

Benzene	0.0967	0.0020	mg/kg	0.100		96.7	70-130			
Toluene	0.0972	0.0050	"	0.100		97.2	70-130			
Ethylbenzene	0.120	0.0050	"	0.100		120	70-130			
m,p-Xylene	0.235	0.010	"	0.200		118	70-130			
o-Xylene	0.116	0.0050	"	0.100		116	70-130			
1,2,4-Trimethylbenzene	0.118	0.0050	"	0.100		118	70-130			
1,3,5-Trimethylbenzene	0.128	0.0050	"	0.100		128	70-130			
Naphthalene	0.113	0.0038	"	0.100		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0396		"	0.0400		98.9	50-150			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.6	50-150			
Surrogate: 4-Bromofluorobenzene	0.0401		"	0.0400		100	50-150			

##### Matrix Spike (BFK0220-MS1)

Source: 2211126-01

Prepared: 11/08/22 Analyzed: 11/09/22

Benzene	0.0961	0.0020	mg/kg	0.100	ND	96.1	70-130			
Toluene	0.0964	0.0050	"	0.100	ND	96.4	70-130			
Ethylbenzene	0.119	0.0050	"	0.100	ND	119	70-130			
m,p-Xylene	0.237	0.010	"	0.200	ND	119	70-130			
o-Xylene	0.116	0.0050	"	0.100	ND	116	70-130			
1,2,4-Trimethylbenzene	0.125	0.0050	"	0.100	ND	125	70-130			
1,3,5-Trimethylbenzene	0.127	0.0050	"	0.100	ND	127	70-130			
Naphthalene	0.123	0.0038	"	0.100	ND	123	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0398		"	0.0400		99.4	50-150			
Surrogate: Toluene-d8	0.0384		"	0.0400		95.9	50-150			
Surrogate: 4-Bromofluorobenzene	0.0399		"	0.0400		99.8	50-150			

Summit Scientific

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650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery  
Project Number: AFE# 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 13:20

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0220 - EPA 5030 Soil MS**

Matrix Spike Dup (BFK0220-MSD1)	Source: 2211126-01			Prepared: 11/08/22 Analyzed: 11/09/22						
Benzene	0.0956	0.0020	mg/kg	0.100	ND	95.6	70-130	0.501	30	
Toluene	0.101	0.0050	"	0.100	ND	101	70-130	4.41	30	
Ethylbenzene	0.119	0.0050	"	0.100	ND	119	70-130	0.504	30	
m,p-Xylene	0.238	0.010	"	0.200	ND	119	70-130	0.341	30	
o-Xylene	0.118	0.0050	"	0.100	ND	118	70-130	1.03	30	
1,2,4-Trimethylbenzene	0.118	0.0050	"	0.100	ND	118	70-130	5.06	30	
1,3,5-Trimethylbenzene	0.130	0.0050	"	0.100	ND	130	70-130	2.15	30	
Naphthalene	0.121	0.0038	"	0.100	ND	121	70-130	1.30	30	
Surrogate: 1,2-Dichloroethane-d4	0.0421		"	0.0400		105	50-150			
Surrogate: Toluene-d8	0.0408		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400		101	50-150			

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery  
Project Number: AFE# 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 13:20

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0221 - EPA 3550A**

**Blank (BFK0221-BLK1)**

Prepared: 11/08/22 Analyzed: 11/09/22

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	11.8		"	12.5		94.5	30-150			

**LCS (BFK0221-BS1)**

Prepared: 11/08/22 Analyzed: 11/09/22

C10-C28 (DRO)	501	50	mg/kg	500		100	70-130			
Surrogate: o-Terphenyl	11.2		"	12.5		89.4	30-150			

**Matrix Spike (BFK0221-MS1)**

**Source: 2211126-01**

Prepared: 11/08/22 Analyzed: 11/09/22

C10-C28 (DRO)	525	50	mg/kg	500	23.1	100	70-130			
Surrogate: o-Terphenyl	11.4		"	12.5		91.4	30-150			

**Matrix Spike Dup (BFK0221-MSD1)**

**Source: 2211126-01**

Prepared: 11/08/22 Analyzed: 11/09/22

C10-C28 (DRO)	528	50	mg/kg	500	23.1	101	70-130	0.537	20	
Surrogate: o-Terphenyl	11.7		"	12.5		93.5	30-150			

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: AFE# 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 13:20

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

Reporting				Spike	Source	%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFK0226 - EPA 5030 Soil MS

##### Blank (BFK0226-BLK1)

Prepared & Analyzed: 11/09/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0234		"	0.0333		70.2	40-150			
Surrogate: Fluoranthene-d10	0.0338		"	0.0333		101	40-150			

##### LCS (BFK0226-BS1)

Prepared & Analyzed: 11/09/22

Acenaphthene	0.0321	0.00500	mg/kg	0.0333		96.2	31-137			
Anthracene	0.0302	0.00500	"	0.0333		90.7	30-120			
Benzo (a) anthracene	0.0299	0.00500	"	0.0333		89.6	30-120			
Benzo (a) pyrene	0.0339	0.00500	"	0.0333		102	30-120			
Benzo (b) fluoranthene	0.0380	0.00500	"	0.0333		114	30-120			
Benzo (k) fluoranthene	0.0374	0.00500	"	0.0333		112	30-120			
Chrysene	0.0345	0.00500	"	0.0333		103	30-120			
Dibenz (a,h) anthracene	0.0304	0.00500	"	0.0333		91.2	30-120			
Fluoranthene	0.0311	0.00500	"	0.0333		93.2	30-120			
Fluorene	0.0301	0.00500	"	0.0333		90.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0252	0.00500	"	0.0333		75.5	30-120			
Pyrene	0.0320	0.00500	"	0.0333		96.1	35-142			
1-Methylnaphthalene	0.0309	0.00500	"	0.0333		92.7	35-142			
2-Methylnaphthalene	0.0300	0.00500	"	0.0333		89.9	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0246		"	0.0333		73.8	40-150			
Surrogate: Fluoranthene-d10	0.0290		"	0.0333		86.9	40-150			

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: AFE# 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 13:20

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

Analyte	Reporting			Spike Level	Source		%REC		RPD	
	Result	Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFK0226 - EPA 5030 Soil MS

##### Matrix Spike (BKF0226-MS1)

Source: 2211126-01

Prepared & Analyzed: 11/09/22

Acenaphthene	0.0251	0.00500	mg/kg	0.0333	ND	75.2	31-137		
Anthracene	0.0233	0.00500	"	0.0333	ND	70.0	30-120		
Benzo (a) anthracene	0.0223	0.00500	"	0.0333	ND	66.8	30-120		
Benzo (a) pyrene	0.0289	0.00500	"	0.0333	ND	86.8	30-120		
Benzo (b) fluoranthene	0.0351	0.00500	"	0.0333	ND	105	30-120		
Benzo (k) fluoranthene	0.0301	0.00500	"	0.0333	ND	90.2	30-120		
Chrysene	0.0283	0.00500	"	0.0333	ND	84.8	30-120		
Dibenz (a,h) anthracene	0.0237	0.00500	"	0.0333	ND	71.2	30-120		
Fluoranthene	0.0240	0.00500	"	0.0333	ND	71.9	30-120		
Fluorene	0.0249	0.00500	"	0.0333	ND	74.8	30-120		
Indeno (1,2,3-cd) pyrene	0.0174	0.00500	"	0.0333	ND	52.2	30-120		
Pyrene	0.0294	0.00500	"	0.0333	0.0170	36.9	35-142		
1-Methylnaphthalene	0.0229	0.00500	"	0.0333	ND	68.6	15-130		
2-Methylnaphthalene	0.0279	0.00500	"	0.0333	ND	83.7	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0214		"	0.0333		64.3	40-150		
Surrogate: Fluoranthene-d10	0.0218		"	0.0333		65.3	40-150		

##### Matrix Spike Dup (BKF0226-MSD1)

Source: 2211126-01

Prepared & Analyzed: 11/09/22

Acenaphthene	0.0256	0.00500	mg/kg	0.0333	ND	76.9	31-137	2.18	30
Anthracene	0.0257	0.00500	"	0.0333	ND	77.0	30-120	9.47	30
Benzo (a) anthracene	0.0219	0.00500	"	0.0333	ND	65.7	30-120	1.66	30
Benzo (a) pyrene	0.0307	0.00500	"	0.0333	ND	92.0	30-120	5.72	30
Benzo (b) fluoranthene	0.0357	0.00500	"	0.0333	ND	107	30-120	1.64	30
Benzo (k) fluoranthene	0.0325	0.00500	"	0.0333	ND	97.5	30-120	7.78	30
Chrysene	0.0245	0.00500	"	0.0333	ND	73.4	30-120	14.4	30
Dibenz (a,h) anthracene	0.0217	0.00500	"	0.0333	ND	65.1	30-120	8.98	30
Fluoranthene	0.0209	0.00500	"	0.0333	ND	62.6	30-120	13.9	30
Fluorene	0.0224	0.00500	"	0.0333	ND	67.2	30-120	10.7	30
Indeno (1,2,3-cd) pyrene	0.0184	0.00500	"	0.0333	ND	55.4	30-120	5.83	30
Pyrene	0.0309	0.00500	"	0.0333	0.0170	41.6	35-142	5.17	30
1-Methylnaphthalene	0.0213	0.00500	"	0.0333	ND	63.9	15-130	7.10	50
2-Methylnaphthalene	0.0231	0.00500	"	0.0333	ND	69.4	15-130	18.6	50
Surrogate: 2-Methylnaphthalene-d10	0.0209		"	0.0333		62.8	40-150		
Surrogate: Fluoranthene-d10	0.0196		"	0.0333		58.8	40-150		

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: AFE# 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 13:20

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source	%REC		RPD		
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0219 - EPA 3050B**

**Blank (BFK0219-BLK1)**

Prepared: 11/08/22 Analyzed: 11/09/22

Lead ND 0.200 mg/kg wet

**LCS (BFK0219-BS1)**

Prepared: 11/08/22 Analyzed: 11/09/22

Lead 18.8 0.200 mg/kg wet 20.0 93.9 80-120

**Duplicate (BFK0219-DUP1)**

**Source: 2211126-01**

Prepared: 11/08/22 Analyzed: 11/09/22

Lead 2.08 0.200 mg/kg dry 2.13 2.20 20

**Matrix Spike (BFK0219-MS1)**

**Source: 2211126-01**

Prepared: 11/08/22 Analyzed: 11/09/22

Lead 19.1 0.200 mg/kg dry 20.4 2.13 83.3 75-125

**Matrix Spike Dup (BFK0219-MSD1)**

**Source: 2211126-01**

Prepared: 11/08/22 Analyzed: 11/09/22

Lead 19.2 0.200 mg/kg dry 20.4 2.13 83.8 75-125 0.562 25

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: AFE# 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 13:20

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0234 - General Preparation**

Duplicate (BFK0234-DUP1)		Source: 2211126-01			Prepared: 11/09/22 Analyzed: 11/10/22					
% Solids	98.3		%		98.3			0.0113	20	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: AFE# 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 13:20

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0222 - General Preparation**

**LCS (BFK0222-BS1)**

Prepared & Analyzed: 11/08/22

pH	9.02	pH Units	9.18	98.3	95-105
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**Duplicate (BFK0222-DUP1)**

**Source: 2211134-01**

Prepared & Analyzed: 11/08/22

pH	7.84	pH Units	7.82	0.255	20
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: AFE# 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 13:20

### Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 14, 2022

Sam Vogt

Civitas Resources

650 Southgate Drive

Windsor, CO 80550

RE: Culver MC 5-17 Tank Battery

Work Order #2211160

Enclosed are the results of analyses for samples received by Summit Scientific on 11/09/22 17:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury

President



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 14:04

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS45@11'	2211160-01	Soil	11/09/22 10:28	11/09/22 17:15
SS46@8.5'	2211160-02	Soil	11/09/22 10:30	11/09/22 17:15
SS47@12'	2211160-03	Soil	11/09/22 14:50	11/09/22 17:15
SS48@8.5'	2211160-04	Soil	11/09/22 15:01	11/09/22 17:15

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

# Summit Scientific

Page 1 of 1

**Project Number: AFE#: 22071**

[www.s2scientific.com](http://www.s2scientific.com)



S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2211160Client: Quitas/Hasman Client Project ID: Culver MC S-17 TBShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 74 Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ICE
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Same day
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation <b>(excluding cooling)</b> ? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

Custodian Printed Name

Date/Time

11-9-22



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 14:04

**SS45@11'**  
**2211160-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/09/22 10:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFK0256	11/09/22	11/09/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.13</b>	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>200</b>	5.0	"	10	"	"	"	"	

Date Sampled: **11/09/22 10:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		75.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		231 %	50-150		"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/09/22 10:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>550</b>	50	mg/kg	1	BFK0255	11/09/22	11/09/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/09/22 10:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		74.1 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 14:04

**SS45@11'**  
**2211160-01 (Soil)**

### Summit Scientific

#### PAH by EPA Method 8270D SIM

Date Sampled: **11/09/22 10:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0258	11/10/22	11/10/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.00972</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.0560</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.701</b>	0.0500	"	10	"	"	11/11/22	"	
<b>2-Methylnaphthalene</b>	<b>1.26</b>	0.0500	"	"	"	"	"	"	

Date Sampled: **11/09/22 10:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		48.9 %	40-150		"	"	11/10/22	"	
Surrogate: Fluoranthene-d10		79.2 %	40-150		"	"	"	"	

#### Total Metals by EPA 6020B

Date Sampled: **11/09/22 10:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Lead</b>	<b>8.04</b>	0.200	mg/kg dry	1	BFK0253	11/09/22	11/10/22	EPA 6020B	

#### Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/22 10:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 14:04

**SS45@11'**  
**2211160-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	80.8	%	1	BFK0283	11/10/22	11/11/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/09/22 10:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.05		pH Units	1	BFK0257	11/09/22	11/09/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 14:04

**SS46@8.5'**  
**2211160-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/09/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFK0256	11/09/22	11/09/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>2.5</b>	<b>0.50</b>	"	"	"	"	"	"	

Date Sampled: **11/09/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		95.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		117 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/09/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0255	11/09/22	11/09/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/09/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		78.7 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 14:04

**SS46@8.5'**  
**2211160-02 (Soil)**

### Summit Scientific

#### PAH by EPA Method 8270D SIM

Date Sampled: **11/09/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0258	11/10/22	11/10/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/09/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		74.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		72.3 %	40-150		"	"	"	"	

#### Total Metals by EPA 6020B

Date Sampled: **11/09/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	<b>8.35</b>	0.200	mg/kg dry	1	BFK0253	11/09/22	11/10/22	EPA 6020B	

#### Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 14:04

**SS46@8.5'**  
**2211160-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	87.4	%	1	BFK0283	11/10/22	11/11/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/09/22 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.27		pH Units	1	BFK0257	11/09/22	11/09/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 14:04

**SS47@12'**  
**2211160-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/09/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFK0256	11/09/22	11/10/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	<b>0.099</b>	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	<b>280</b>	5.0	"	10	"	"	"	"	

Date Sampled: **11/09/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		85.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		98.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		161 %	50-150		"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/09/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	<b>270</b>	50	mg/kg	1	BFK0255	11/09/22	11/09/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/09/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		79.5 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 14:04

**SS47@12'**  
**2211160-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/09/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0258	11/10/22	11/10/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0150</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.0699</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.637</b>	0.0500	"	10	"	"	11/11/22	"	
<b>2-Methylnaphthalene</b>	<b>1.07</b>	0.0500	"	"	"	"	"	"	

Date Sampled: **11/09/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		55.6 %	40-150		"	"	11/10/22	"	
Surrogate: Fluoranthene-d10		81.5 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B**

Date Sampled: **11/09/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Lead</b>	<b>8.68</b>	0.200	mg/kg dry	1	BFK0253	11/09/22	11/10/22	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/09/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 14:04

**SS47@12'**  
**2211160-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	80.3	%	1	BFK0283	11/10/22	11/11/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/09/22 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.31		pH Units	1	BFK0257	11/09/22	11/09/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 14:04

**SS48@8.5'**  
**2211160-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/09/22 15:01**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFK0256	11/09/22	11/09/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.81</b>	0.50	"	"	"	"	"	"	

Date Sampled: **11/09/22 15:01**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		109 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/09/22 15:01**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0255	11/09/22	11/09/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/09/22 15:01**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		81.6 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 14:04

**SS48@8.5'**  
**2211160-04 (Soil)**

### Summit Scientific

#### PAH by EPA Method 8270D SIM

Date Sampled: **11/09/22 15:01**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0258	11/10/22	11/10/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/09/22 15:01**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		77.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		78.9 %	40-150		"	"	"	"	

#### Total Metals by EPA 6020B

Date Sampled: **11/09/22 15:01**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	9.74	0.200	mg/kg dry	1	BFK0253	11/09/22	11/10/22	EPA 6020B	

#### Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/09/22 15:01**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 14:04

**SS48@8.5'**  
**2211160-04 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	80.7	%	1	BFK0283	11/10/22	11/11/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/09/22 15:01**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.15		pH Units	1	BFK0257	11/09/22	11/09/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 14:04

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFK0256 - EPA 5030 Soil MS

##### Blank (BFK0256-BLK1)

Prepared: 11/09/22 Analyzed: 11/10/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0262		"	0.0400		65.6	50-150			
Surrogate: Toluene-d8	0.0431		"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene	0.0371		"	0.0400		92.8	50-150			

##### LCS (BFK0256-BS1)

Prepared: 11/09/22 Analyzed: 11/10/22

Benzene	0.0881	0.0020	mg/kg	0.100		88.1	70-130			
Toluene	0.0776	0.0050	"	0.100		77.6	70-130			
Ethylbenzene	0.0961	0.0050	"	0.100		96.1	70-130			
m,p-Xylene	0.193	0.010	"	0.200		96.6	70-130			
o-Xylene	0.0881	0.0050	"	0.100		88.1	70-130			
1,2,4-Trimethylbenzene	0.0910	0.0050	"	0.100		91.0	70-130			
1,3,5-Trimethylbenzene	0.0937	0.0050	"	0.100		93.7	70-130			
Naphthalene	0.112	0.0038	"	0.100		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0280		"	0.0400		70.1	50-150			
Surrogate: Toluene-d8	0.0425		"	0.0400		106	50-150			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.1	50-150			

##### Matrix Spike (BFK0256-MS1)

Source: 2211151-01

Prepared: 11/09/22 Analyzed: 11/10/22

Benzene	0.0744	0.0020	mg/kg	0.100	ND	74.4	70-130			
Toluene	0.0708	0.0050	"	0.100	ND	70.8	70-130			
Ethylbenzene	0.0744	0.0050	"	0.100	ND	74.4	70-130			
m,p-Xylene	0.148	0.010	"	0.200	ND	74.0	70-130			
o-Xylene	0.0764	0.0050	"	0.100	ND	76.4	70-130			
1,2,4-Trimethylbenzene	0.0828	0.0050	"	0.100	ND	82.8	70-130			
1,3,5-Trimethylbenzene	0.0812	0.0050	"	0.100	ND	81.2	70-130			
Naphthalene	0.118	0.0038	"	0.100	ND	118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0355		"	0.0400		88.6	50-150			
Surrogate: Toluene-d8	0.0439		"	0.0400		110	50-150			
Surrogate: 4-Bromofluorobenzene	0.0401		"	0.0400		100	50-150			

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 14:04

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFK0256 - EPA 5030 Soil MS

Matrix Spike Dup (BFK0256-MSD1)		Source: 2211151-01			Prepared: 11/09/22 Analyzed: 11/10/22					
Benzene	0.0777	0.0020	mg/kg	0.100	ND	77.7	70-130	4.30	30	
Toluene	0.0751	0.0050	"	0.100	ND	75.1	70-130	5.84	30	
Ethylbenzene	0.0737	0.0050	"	0.100	ND	73.7	70-130	0.972	30	
m,p-Xylene	0.147	0.010	"	0.200	ND	73.7	70-130	0.386	30	
o-Xylene	0.0764	0.0050	"	0.100	ND	76.4	70-130	0.00	30	
1,2,4-Trimethylbenzene	0.0844	0.0050	"	0.100	ND	84.4	70-130	1.87	30	
1,3,5-Trimethylbenzene	0.0818	0.0050	"	0.100	ND	81.8	70-130	0.773	30	
Naphthalene	0.112	0.0038	"	0.100	ND	112	70-130	4.90	30	
Surrogate: 1,2-Dichloroethane-d4		0.0383	"	0.0400		95.8	50-150			
Surrogate: Toluene-d8		0.0448	"	0.0400		112	50-150			
Surrogate: 4-Bromofluorobenzene		0.0414	"	0.0400		103	50-150			

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 14:04

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0255 - EPA 3550A**

**Blank (BFK0255-BLK1)**

Prepared: 11/09/22 Analyzed: 11/10/22

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	11.2		"	12.5		89.9	30-150			

**LCS (BFK0255-BS1)**

Prepared: 11/09/22 Analyzed: 11/10/22

C10-C28 (DRO)	539	50	mg/kg	500		108	70-130			
Surrogate: o-Terphenyl	11.4		"	12.5		91.4	30-150			

**Matrix Spike (BFK0255-MS1)**

Source: 2211151-01

Prepared: 11/09/22 Analyzed: 11/10/22

C10-C28 (DRO)	517	50	mg/kg	500	20.2	99.3	70-130			
Surrogate: o-Terphenyl	10.9		"	12.5		86.8	30-150			

**Matrix Spike Dup (BFK0255-MSD1)**

Source: 2211151-01

Prepared: 11/09/22 Analyzed: 11/10/22

C10-C28 (DRO)	518	50	mg/kg	500	20.2	99.5	70-130	0.192	20	
Surrogate: o-Terphenyl	10.8		"	12.5		86.6	30-150			

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 14:04

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

Reporting				Spike	Source	%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFK0258 - EPA 5030 Soil MS

##### Blank (BFK0258-BLK1)

Prepared & Analyzed: 11/10/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0310		"	0.0333		93.1	40-150			
Surrogate: Fluoranthene-d10	0.0324		"	0.0333		97.1	40-150			

##### LCS (BFK0258-BS1)

Prepared & Analyzed: 11/10/22

Acenaphthene	0.0310	0.00500	mg/kg	0.0333		93.1	31-137			
Anthracene	0.0299	0.00500	"	0.0333		89.7	30-120			
Benzo (a) anthracene	0.0308	0.00500	"	0.0333		92.3	30-120			
Benzo (a) pyrene	0.0297	0.00500	"	0.0333		89.2	30-120			
Benzo (b) fluoranthene	0.0302	0.00500	"	0.0333		90.7	30-120			
Benzo (k) fluoranthene	0.0307	0.00500	"	0.0333		92.1	30-120			
Chrysene	0.0315	0.00500	"	0.0333		94.4	30-120			
Dibenz (a,h) anthracene	0.0266	0.00500	"	0.0333		79.9	30-120			
Fluoranthene	0.0297	0.00500	"	0.0333		89.2	30-120			
Fluorene	0.0316	0.00500	"	0.0333		94.7	30-120			
Indeno (1,2,3-cd) pyrene	0.0274	0.00500	"	0.0333		82.1	30-120			
Pyrene	0.0303	0.00500	"	0.0333		91.0	35-142			
1-Methylnaphthalene	0.0335	0.00500	"	0.0333		100	35-142			
2-Methylnaphthalene	0.0290	0.00500	"	0.0333		87.1	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0302		"	0.0333		90.6	40-150			
Surrogate: Fluoranthene-d10	0.0317		"	0.0333		95.0	40-150			

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 14:04

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

Analyte	Reporting			Spike Level	Source		%REC		RPD	
	Result	Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFK0258 - EPA 5030 Soil MS

##### Matrix Spike (BFK0258-MS1)

Source: 2211151-01

Prepared & Analyzed: 11/10/22

Acenaphthene	0.0190	0.00500	mg/kg	0.0333	ND	57.0	31-137			
Anthracene	0.0188	0.00500	"	0.0333	ND	56.5	30-120			
Benzo (a) anthracene	0.0191	0.00500	"	0.0333	ND	57.4	30-120			
Benzo (a) pyrene	0.0184	0.00500	"	0.0333	ND	55.3	30-120			
Benzo (b) fluoranthene	0.0188	0.00500	"	0.0333	ND	56.3	30-120			
Benzo (k) fluoranthene	0.0194	0.00500	"	0.0333	ND	58.3	30-120			
Chrysene	0.0195	0.00500	"	0.0333	ND	58.5	30-120			
Dibenz (a,h) anthracene	0.0169	0.00500	"	0.0333	ND	50.6	30-120			
Fluoranthene	0.0181	0.00500	"	0.0333	ND	54.4	30-120			
Fluorene	0.0179	0.00500	"	0.0333	ND	53.8	30-120			
Indeno (1,2,3-cd) pyrene	0.0185	0.00500	"	0.0333	ND	55.5	30-120			
Pyrene	0.0180	0.00500	"	0.0333	ND	53.9	35-142			
1-Methylnaphthalene	0.0229	0.00500	"	0.0333	ND	68.7	15-130			
2-Methylnaphthalene	0.0209	0.00500	"	0.0333	ND	62.8	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0194		"	0.0333		58.3	40-150			
Surrogate: Fluoranthene-d10	0.0190		"	0.0333		57.0	40-150			

##### Matrix Spike Dup (BFK0258-MSD1)

Source: 2211151-01

Prepared & Analyzed: 11/10/22

Acenaphthene	0.0250	0.00500	mg/kg	0.0333	ND	75.1	31-137	27.3	30	
Anthracene	0.0249	0.00500	"	0.0333	ND	74.6	30-120	27.5	30	
Benzo (a) anthracene	0.0255	0.00500	"	0.0333	ND	76.4	30-120	28.4	30	
Benzo (a) pyrene	0.0250	0.00500	"	0.0333	ND	75.0	30-120	30.3	30	QR-02
Benzo (b) fluoranthene	0.0257	0.00500	"	0.0333	ND	77.2	30-120	31.3	30	QR-02
Benzo (k) fluoranthene	0.0266	0.00500	"	0.0333	ND	79.8	30-120	31.0	30	QR-02
Chrysene	0.0259	0.00500	"	0.0333	ND	77.6	30-120	28.1	30	
Dibenz (a,h) anthracene	0.0236	0.00500	"	0.0333	ND	70.8	30-120	33.4	30	QR-02
Fluoranthene	0.0268	0.00500	"	0.0333	ND	80.5	30-120	38.6	30	QR-02
Fluorene	0.0249	0.00500	"	0.0333	ND	74.6	30-120	32.4	30	QR-02
Indeno (1,2,3-cd) pyrene	0.0244	0.00500	"	0.0333	ND	73.1	30-120	27.2	30	
Pyrene	0.0245	0.00500	"	0.0333	ND	73.5	35-142	30.8	30	QR-02
1-Methylnaphthalene	0.0325	0.00500	"	0.0333	ND	97.6	15-130	34.8	50	
2-Methylnaphthalene	0.0275	0.00500	"	0.0333	ND	82.5	15-130	27.2	50	
Surrogate: 2-Methylnaphthalene-d10	0.0277		"	0.0333		83.1	40-150			
Surrogate: Fluoranthene-d10	0.0274		"	0.0333		82.1	40-150			

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 14:04

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0253 - EPA 3050B**

**Blank (BFK0253-BLK1)**

Prepared: 11/09/22 Analyzed: 11/10/22

Lead ND 0.200 mg/kg wet

**LCS (BFK0253-BS1)**

Prepared: 11/09/22 Analyzed: 11/10/22

Lead 18.1 0.200 mg/kg wet 20.0 90.3 80-120

**Duplicate (BFK0253-DUP1)**

**Source: 2211109-01**

Prepared: 11/09/22 Analyzed: 11/10/22

Lead 4.63 0.200 mg/kg dry 4.80 3.54 20

**Matrix Spike (BFK0253-MS1)**

**Source: 2211109-01**

Prepared: 11/09/22 Analyzed: 11/10/22

Lead 24.6 0.200 mg/kg dry 22.7 4.80 87.6 75-125

**Matrix Spike Dup (BFK0253-MSD1)**

**Source: 2211109-01**

Prepared: 11/09/22 Analyzed: 11/10/22

Lead 24.6 0.200 mg/kg dry 22.7 4.80 87.6 75-125 0.00609 25

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 14:04

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0283 - General Preparation**

Duplicate (BFK0283-DUP1)		Source: 2211104-01		Prepared: 11/10/22 Analyzed: 11/11/22	
% Solids	73.8		%	74.3	0.623 20

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 14:04

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0257 - General Preparation**

**LCS (BFK0257-BS1)**

Prepared & Analyzed: 11/09/22

pH	9.00	pH Units	9.18	98.0	95-105
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**Duplicate (BFK0257-DUP1)**

Source: 2211160-01

Prepared & Analyzed: 11/09/22

pH	7.00	pH Units	7.05	0.712	20
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 14:04

### Notes and Definitions

S-02      The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

QR-02      The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

DET      Analyte DETECTED

ND      Analyte NOT DETECTED at or above the reporting limit

NR      Not Reported

dry      Sample results reported on a dry weight basis

RPD      Relative Percent Difference

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 14, 2022

Sam Vogt

Civitas Resources

650 Southgate Drive

Windsor, CO 80550

RE: Culver MC 5-17 Tank Battery

Work Order #2211162

Enclosed are the results of analyses for samples received by Summit Scientific on 11/09/22 17:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury  
President



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 14:28

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW01	2211162-01	Water	11/09/22 09:02	11/09/22 17:15

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



22/1/62

# Summit Scientific

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 1

Client: Civitas / Tasman GeosciencesProject Manager: Sam Vogt, Jacob EvansAddress: 6855 W. 119th Ave.E-Mail: svogt@tasman-gco.com, jevans@civiresources.comCity/State/Zip: Broomfield / CO/ 80020Phone: 303-405-4078 ~~303-405-4078~~ 610-405-9078Project Name: Culver MC 5-17TBSampler Name: DMProject Number: ~~22071~~ AFE#: 22071

					Preservative				Matrix				Analysis Requested							Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX	Naphthalene	1,2,4-TMB	1,3,5-TMB	TDS	Chloride	Sulfate		
1	GWO1	11.9.22	9:02	4	3				X				X	X	X	X	X	X	X		
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: <u>[Signature]</u>	Date/Time: <u>11.9.22</u>	Received by: <u>Tasman's Lock Box</u>	Date/Time: <u>11.9.22</u>	Turn Around Time (Check)	Notes:
Relinquished by: <u>Tasman's Lock Box</u>	Date/Time: <u>11.9.22</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11.9.22</u>	<input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 hours <input type="checkbox"/> 48 hours	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: <u>74</u> Temperature Upon Receipt: <u>74</u> Samples Intact: <u>Yes</u> No	

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 221162Client: Civitas/Tasman Client Project ID: Culver MCS-17TBShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☐ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☐ Water ☒ Other ☐Temp (°C) 74Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ICE
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Same day
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HCl
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.
  
 Custodian Printed Name

11-9-22  
 Date/Time



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 14:28

**GW01**  
**2211162-01 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/09/22 09:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BFK0254	11/09/22	11/09/22	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **11/09/22 09:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		112 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		107 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		119 %	21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **11/09/22 09:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chloride	17.7	0.0600	mg/L	1	BFK0247	11/09/22	11/09/22	EPA 300.0	
Sulfate	6.99	0.300	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **11/09/22 09:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Total Dissolved Solids	7640	10.0	mg/L	1	BFK0304	11/11/22	11/11/22	SM2540C	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 14:28

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFK0254 - EPA 5030 Water MS

##### Blank (BFK0254-BLK1)

Prepared: 11/09/22 Analyzed: 11/10/22

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	14.3		"	13.3		107	23-173			
Surrogate: Toluene-d8	14.1		"	13.3		106	20-170			
Surrogate: 4-Bromofluorobenzene	15.1		"	13.3		113	21-167			

##### LCS (BFK0254-BS1)

Prepared: 11/09/22 Analyzed: 11/10/22

Benzene	30.6	1.0	ug/l	33.3		91.7	51-132			
Toluene	32.0	1.0	"	33.3		95.9	51-138			
Ethylbenzene	28.9	1.0	"	33.3		86.6	58-146			
m,p-Xylene	67.2	2.0	"	66.7		101	57-144			
o-Xylene	37.0	1.0	"	33.3		111	53-146			
Naphthalene	32.7	1.0	"	33.3		98.0	70-130			
1,2,4-Trimethylbenzene	27.6	1.0	"	33.3		82.7	70-130			
1,3,5-Trimethylbenzene	32.4	1.0	"	33.3		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	14.5		"	13.3		109	23-173			
Surrogate: Toluene-d8	14.5		"	13.3		109	20-170			
Surrogate: 4-Bromofluorobenzene	14.4		"	13.3		108	21-167			

##### Matrix Spike (BFK0254-MS1)

Source: 2211163-01

Prepared: 11/09/22 Analyzed: 11/10/22

Benzene	29.1	1.0	ug/l	33.3	ND	87.2	34-141			
Toluene	30.0	1.0	"	33.3	ND	89.9	27-151			
Ethylbenzene	28.2	1.0	"	33.3	ND	84.5	29-160			
m,p-Xylene	74.7	2.0	"	66.7	ND	112	20-166			
o-Xylene	36.1	1.0	"	33.3	ND	108	33-159			
Naphthalene	29.0	1.0	"	33.3	ND	87.2	70-130			
1,2,4-Trimethylbenzene	27.1	1.0	"	33.3	ND	81.2	70-130			
1,3,5-Trimethylbenzene	30.7	1.0	"	33.3	ND	92.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	14.5		"	13.3		109	23-173			
Surrogate: Toluene-d8	14.4		"	13.3		108	20-170			
Surrogate: 4-Bromofluorobenzene	14.3		"	13.3		107	21-167			

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 14:28

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0254 - EPA 5030 Water MS**

Matrix Spike Dup (BFK0254-MSD1)	Source: 2211163-01			Prepared: 11/09/22 Analyzed: 11/10/22						
Benzene	28.5	1.0	ug/l	33.3	ND	85.6	34-141	1.94	30	
Toluene	29.6	1.0	"	33.3	ND	88.9	27-151	1.21	30	
Ethylbenzene	28.5	1.0	"	33.3	ND	85.4	29-160	0.989	30	
m,p-Xylene	76.0	2.0	"	66.7	ND	114	20-166	1.63	30	
o-Xylene	36.6	1.0	"	33.3	ND	110	33-159	1.35	30	
Naphthalene	30.6	1.0	"	33.3	ND	91.8	70-130	5.16	30	
1,2,4-Trimethylbenzene	28.2	1.0	"	33.3	ND	84.8	70-130	4.27	30	
1,3,5-Trimethylbenzene	32.1	1.0	"	33.3	ND	96.4	70-130	4.46	30	
Surrogate: 1,2-Dichloroethane-d4	15.8		"	13.3		118	23-173			
Surrogate: Toluene-d8	14.4		"	13.3		108	20-170			
Surrogate: 4-Bromofluorobenzene	14.7		"	13.3		110	21-167			

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 14:28

### Anions by EPA Method 300.0 - Quality Control

#### Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFK0247 - General Preparation

##### Blank (BFK0247-BLK1)

Prepared & Analyzed: 11/09/22

Chloride	ND	0.0600	mg/L
Sulfate	ND	0.300	"

##### LCS (BFK0247-BS1)

Prepared & Analyzed: 11/09/22

Chloride	3.29	0.0600	mg/L	3.00	110	90-110
Sulfate	15.1	0.300	"	15.0	101	90-110

##### Duplicate (BFK0247-DUP1)

Source: 2211063-01

Prepared & Analyzed: 11/09/22

Chloride	1790	12.0	mg/L	1910	6.47	20
Sulfate	10800	60.0	"	11500	5.94	20

##### Matrix Spike (BFK0247-MS1)

Source: 2211063-01

Prepared & Analyzed: 11/09/22

Chloride	2170	12.0	mg/L	600	1910	44.2	80-120	QM-02
Sulfate	12900	60.0	"	3000	11500	45.9	80-120	QM-02

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 14:28

**Total Dissolved Solids by SM2540C - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0304 - General Preparation**

**Blank (BFK0304-BLK1)**

Prepared & Analyzed: 11/11/22

Total Dissolved Solids ND 10.0 mg/L

**Duplicate (BFK0304-DUP1)**

Source: 2211131-01

Prepared & Analyzed: 11/11/22

Total Dissolved Solids 613 10.0 mg/L 607 1.02 20

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 14:28

### Notes and Definitions

QM-02	The RPD and/or percent recovery for this QC sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 14, 2022

Sam Vogt

Civitas Resources

650 Southgate Drive

Windsor, CO 80550

RE: Culver MC 5-17 Tank Battery

Work Order #2211202

Enclosed are the results of analyses for samples received by Summit Scientific on 11/10/22 17:14. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury  
President



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 16:49

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS49@11'	2211202-01	Soil	11/10/22 14:58	11/10/22 17:14
SS50@8.5'	2211202-02	Soil	11/10/22 15:03	11/10/22 17:14
SS51@12'	2211202-03	Soil	11/10/22 15:15	11/10/22 17:14
SS52@8.5'	2211202-04	Soil	11/10/22 15:22	11/10/22 17:14

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

# Summit Scientific

741 Corporate Circle Suite I ♦ Golden, Colorado 80401  
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client: CIVITAS/Tasman

Address: 6855 W. 100th St. 119th

City/State/Zip: Broomfield, CO 80020

Phone: Sam Vogt: 610-405-9078 Fax:

Sampler Name: DH & DM


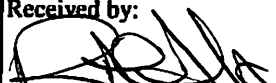
Project Manager: Sam Vogt, Jacob Evans

E-Mail: svogt@tasman-geo.com, jevans@civiresources.com

Project Name: Culver MC 5-17TB

Project Number: AFE#: 22071

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix		Analyze For:								Special Instructions	
				HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	BTEX	Naph	TMBs	TPH	PAH	Lead		pH
SS49 @ 11'	11/10/22	1458	2			X			X										* Sat paste
SS50 @ 8.5'		1503	1																
SS51 @ 12'		1515	1																
SS52 @ 8.5'		1522	1																

Relinquished by: 	Date/Time: 11/10/22 16:20	Received by: Tasman Lockbox	Date/Time: 11/10/22 16:20	<b>Turn Around Time (Check)</b> Same Day <input checked="" type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input type="checkbox"/> 48 Hours <input type="checkbox"/>	Notes:
Relinquished by: Tasman Lockbox	Date/Time: 11/10/22 17:14	Received by: 	Date/Time: 11/10/22 17:14		
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:		
				<b>Sample Integrity:</b> Temperature Upon Receipt: 9.0 Intact: Yes <input type="checkbox"/> No <input type="checkbox"/>	

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order#

22/1202

Client: Civitas/Asman Client Project ID: Calver MC S-17 TBShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 9.0Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ICE
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Same day
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

Custodian Printed Name

Date/Time

11-10-22



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 16:49

**SS49@11'**  
**2211202-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/10/22 14:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFK0285	11/10/22	11/10/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/10/22 14:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		100 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		111 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/10/22 14:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0286	"	11/10/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/10/22 14:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		85.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Project Manager: Sam Vogt

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**SS49@11'**  
**2211202-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/10/22 14:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0290	11/11/22	11/12/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/10/22 14:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		62.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		69.0 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B**

Date Sampled: **11/10/22 14:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	<b>5.88</b>	0.200	mg/kg dry	1	BFK0280	11/10/22	11/12/22	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/10/22 14:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 16:49

**SS49@11'**  
**2211202-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	82.3	%	1	BFK0312	11/11/22	11/11/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/10/22 14:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.15		pH Units	1	BFK0287	11/10/22	11/11/22	EPA 9045D	

Summit Scientific

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650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 16:49

**SS50@8.5'**  
**2211202-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/10/22 15:03**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFK0285	11/10/22	11/10/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/10/22 15:03**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		95.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		110 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/10/22 15:03**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0286	"	11/10/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/10/22 15:03**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		90.3 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Culver MC 5-17 Tank Battery

Project Number: 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 16:49

**SS50@8.5'**  
**2211202-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/10/22 15:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0290	11/11/22	11/12/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/10/22 15:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		70.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		70.6 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B**

Date Sampled: **11/10/22 15:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	<b>8.00</b>	0.200	mg/kg dry	1	BFK0280	11/10/22	11/12/22	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/10/22 15:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 16:49

**SS50@8.5'**  
**2211202-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	84.9	%	1	BFK0312	11/11/22	11/11/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/10/22 15:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.09		pH Units	1	BFK0287	11/10/22	11/11/22	EPA 9045D	

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Project: Culver MC 5-17 Tank Battery

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Project Manager: Sam Vogt

**Reported:**  
11/14/22 16:49

**SS51@12'**  
**2211202-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/10/22 15:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFK0285	11/10/22	11/10/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/10/22 15:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		96.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		110 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/10/22 15:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0286	"	11/10/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/10/22 15:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		92.6 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project Number: 22071  
Project Manager: Sam Vogt

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**SS51@12'**  
**2211202-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/10/22 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0290	11/11/22	11/12/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/10/22 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		62.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		72.5 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B**

Date Sampled: **11/10/22 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	<b>8.70</b>	0.200	mg/kg dry	1	BFK0280	11/10/22	11/12/22	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/10/22 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Windsor CO, 80550

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Project Number: 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 16:49

**SS51@12'**  
**2211202-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	81.5	%	1	BFK0312	11/11/22	11/11/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/10/22 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.36		pH Units	1	BFK0287	11/10/22	11/11/22	EPA 9045D	

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**Reported:**  
11/14/22 16:49

**SS52@8.5'**  
**2211202-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/10/22 15:22**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFK0285	11/10/22	11/10/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/10/22 15:22**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		110 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/10/22 15:22**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0286	"	11/10/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/10/22 15:22**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		90.7 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 16:49

**SS52@8.5'**  
**2211202-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/10/22 15:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0290	11/11/22	11/12/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/10/22 15:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		69.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		72.4 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B**

Date Sampled: **11/10/22 15:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	<b>8.34</b>	0.200	mg/kg dry	1	BFK0280	11/10/22	11/12/22	EPA 6020B	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/10/22 15:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 16:49

**SS52@8.5'**  
**2211202-04 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	81.5	%	1	BFK0312	11/11/22	11/11/22	Calculation
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**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **11/10/22 15:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.06		pH Units	1	BFK0287	11/10/22	11/11/22	EPA 9045D	

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 16:49

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFK0285 - EPA 5030 Soil MS

##### Blank (BFK0285-BLK1)

Prepared: 11/10/22 Analyzed: 11/11/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0378		"	0.0400		94.6	50-150			
Surrogate: Toluene-d8	0.0432		"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene	0.0458		"	0.0400		114	50-150			

##### LCS (BFK0285-BS1)

Prepared: 11/10/22 Analyzed: 11/11/22

Benzene	0.107	0.0020	mg/kg	0.125		85.7	70-130			
Toluene	0.143	0.0050	"	0.125		115	70-130			
Ethylbenzene	0.144	0.0050	"	0.125		115	70-130			
m,p-Xylene	0.287	0.010	"	0.250		115	70-130			
o-Xylene	0.140	0.0050	"	0.125		112	70-130			
1,2,4-Trimethylbenzene	0.140	0.0050	"	0.125		112	70-130			
1,3,5-Trimethylbenzene	0.160	0.0050	"	0.125		128	70-130			
Naphthalene	0.137	0.0038	"	0.125		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0375		"	0.0400		93.7	50-150			
Surrogate: Toluene-d8	0.0436		"	0.0400		109	50-150			
Surrogate: 4-Bromofluorobenzene	0.0432		"	0.0400		108	50-150			

##### Matrix Spike (BFK0285-MS1)

Source: 2211179-01

Prepared: 11/10/22 Analyzed: 11/11/22

Benzene	0.110	0.0020	mg/kg	0.125	ND	87.7	70-130			
Toluene	0.148	0.0050	"	0.125	ND	119	70-130			
Ethylbenzene	0.148	0.0050	"	0.125	ND	118	70-130			
m,p-Xylene	0.292	0.010	"	0.250	ND	117	70-130			
o-Xylene	0.141	0.0050	"	0.125	ND	113	70-130			
1,2,4-Trimethylbenzene	0.149	0.0050	"	0.125	ND	120	70-130			
1,3,5-Trimethylbenzene	0.135	0.0050	"	0.125	ND	108	70-130			
Naphthalene	0.149	0.0038	"	0.125	ND	119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0392		"	0.0400		98.1	50-150			
Surrogate: Toluene-d8	0.0431		"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene	0.0431		"	0.0400		108	50-150			

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Civitas Resources  
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Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery  
Project Number: 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 16:49

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0285 - EPA 5030 Soil MS**

Matrix Spike Dup (BFK0285-MSD1)	Source: 2211179-01			Prepared: 11/10/22 Analyzed: 11/11/22						
Benzene	0.108	0.0020	mg/kg	0.125	ND	86.5	70-130	1.43	30	
Toluene	0.147	0.0050	"	0.125	ND	117	70-130	1.02	30	
Ethylbenzene	0.145	0.0050	"	0.125	ND	116	70-130	1.93	30	
m,p-Xylene	0.288	0.010	"	0.250	ND	115	70-130	1.54	30	
o-Xylene	0.140	0.0050	"	0.125	ND	112	70-130	0.873	30	
1,2,4-Trimethylbenzene	0.144	0.0050	"	0.125	ND	115	70-130	3.62	30	
1,3,5-Trimethylbenzene	0.131	0.0050	"	0.125	ND	105	70-130	2.66	30	
Naphthalene	0.150	0.0038	"	0.125	ND	120	70-130	0.462	30	
Surrogate: 1,2-Dichloroethane-d4	0.0389		"	0.0400		97.2	50-150			
Surrogate: Toluene-d8	0.0430		"	0.0400		107	50-150			
Surrogate: 4-Bromofluorobenzene	0.0434		"	0.0400		108	50-150			

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Civitas Resources  
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Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 16:49

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0286 - EPA 3550A**

**Blank (BFK0286-BLK1)**

Prepared: 11/10/22 Analyzed: 11/11/22

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	9.92		"	12.5		79.4	30-150			

**LCS (BFK0286-BS1)**

Prepared: 11/10/22 Analyzed: 11/11/22

C10-C28 (DRO)	523	50	mg/kg	500		105	70-130			
Surrogate: o-Terphenyl	10.7		"	12.5		85.7	30-150			

**Matrix Spike (BFK0286-MS1)**

Source: 2211179-01

Prepared: 11/10/22 Analyzed: 11/11/22

C10-C28 (DRO)	535	50	mg/kg	500	26.0	102	70-130			
Surrogate: o-Terphenyl	10.9		"	12.5		87.2	30-150			

**Matrix Spike Dup (BFK0286-MSD1)**

Source: 2211179-01

Prepared: 11/10/22 Analyzed: 11/11/22

C10-C28 (DRO)	542	50	mg/kg	500	26.0	103	70-130	1.23	20	
Surrogate: o-Terphenyl	12.2		"	12.5		97.6	30-150			

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Project: Culver MC 5-17 Tank Battery  
Project Number: 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 16:49

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

Reporting				Spike	Source	%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFK0290 - EPA 5030 Soil MS

##### Blank (BFK0290-BLK1)

Prepared & Analyzed: 11/11/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0225		"	0.0333		67.6	40-150			
Surrogate: Fluoranthene-d10	0.0343		"	0.0333		103	40-150			

##### LCS (BFK0290-BS1)

Prepared & Analyzed: 11/11/22

Acenaphthene	0.0309	0.00500	mg/kg	0.0333		92.6	31-137			
Anthracene	0.0306	0.00500	"	0.0333		91.7	30-120			
Benzo (a) anthracene	0.0320	0.00500	"	0.0333		95.9	30-120			
Benzo (a) pyrene	0.0302	0.00500	"	0.0333		90.7	30-120			
Benzo (b) fluoranthene	0.0305	0.00500	"	0.0333		91.5	30-120			
Benzo (k) fluoranthene	0.0308	0.00500	"	0.0333		92.4	30-120			
Chrysene	0.0327	0.00500	"	0.0333		98.0	30-120			
Dibenz (a,h) anthracene	0.0282	0.00500	"	0.0333		84.7	30-120			
Fluoranthene	0.0293	0.00500	"	0.0333		88.0	30-120			
Fluorene	0.0309	0.00500	"	0.0333		92.7	30-120			
Indeno (1,2,3-cd) pyrene	0.0309	0.00500	"	0.0333		92.7	30-120			
Pyrene	0.0276	0.00500	"	0.0333		82.9	35-142			
1-Methylnaphthalene	0.0282	0.00500	"	0.0333		84.5	35-142			
2-Methylnaphthalene	0.0314	0.00500	"	0.0333		94.1	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0247		"	0.0333		74.0	40-150			
Surrogate: Fluoranthene-d10	0.0314		"	0.0333		94.3	40-150			

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery  
Project Number: 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 16:49

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

Reporting				Spike	Source	%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch BFK0290 - EPA 5030 Soil MS

Matrix Spike (BFK0290-MS1)			Source: 2211144-01		Prepared & Analyzed: 11/11/22					
Acenaphthene	0.0239	0.00500	mg/kg	0.0333	0.00181	66.3	31-137			
Anthracene	0.0245	0.00500	"	0.0333	0.00340	63.3	30-120			
Benzo (a) anthracene	0.0261	0.00500	"	0.0333	0.00568	61.1	30-120			
Benzo (a) pyrene	0.0229	0.00500	"	0.0333	0.00374	57.4	30-120			
Benzo (b) fluoranthene	0.0243	0.00500	"	0.0333	0.00590	55.2	30-120			
Benzo (k) fluoranthene	0.0221	0.00500	"	0.0333	0.00290	57.6	30-120			
Chrysene	0.0262	0.00500	"	0.0333	0.00617	60.0	30-120			
Dibenz (a,h) anthracene	0.0181	0.00500	"	0.0333	ND	54.4	30-120			
Fluoranthene	0.0316	0.00500	"	0.0333	0.0132	55.2	30-120			
Fluorene	0.0235	0.00500	"	0.0333	0.00149	65.9	30-120			
Indeno (1,2,3-cd) pyrene	0.0218	0.00500	"	0.0333	0.00339	55.4	30-120			
Pyrene	0.0263	0.00500	"	0.0333	0.00635	59.8	35-142			
1-Methylnaphthalene	0.0210	0.00500	"	0.0333	ND	62.9	15-130			
2-Methylnaphthalene	0.0215	0.00500	"	0.0333	ND	64.6	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0198		"	0.0333		59.3	40-150			
Surrogate: Fluoranthene-d10	0.0226		"	0.0333		67.7	40-150			

Matrix Spike Dup (BFK0290-MSD1)			Source: 2211144-01		Prepared & Analyzed: 11/11/22					
Acenaphthene	0.0205	0.00500	mg/kg	0.0333	0.00181	56.0	31-137	15.4	30	
Anthracene	0.0206	0.00500	"	0.0333	0.00340	51.5	30-120	17.4	30	
Benzo (a) anthracene	0.0219	0.00500	"	0.0333	0.00568	48.8	30-120	17.2	30	
Benzo (a) pyrene	0.0194	0.00500	"	0.0333	0.00374	46.9	30-120	16.7	30	
Benzo (b) fluoranthene	0.0203	0.00500	"	0.0333	0.00590	43.2	30-120	17.9	30	
Benzo (k) fluoranthene	0.0189	0.00500	"	0.0333	0.00290	48.1	30-120	15.5	30	
Chrysene	0.0215	0.00500	"	0.0333	0.00617	46.1	30-120	19.4	30	
Dibenz (a,h) anthracene	0.0158	0.00500	"	0.0333	ND	47.5	30-120	13.6	30	
Fluoranthene	0.0243	0.00500	"	0.0333	0.0132	33.3	30-120	26.1	30	
Fluorene	0.0198	0.00500	"	0.0333	0.00149	55.0	30-120	16.8	30	
Indeno (1,2,3-cd) pyrene	0.0174	0.00500	"	0.0333	0.00339	41.9	30-120	22.9	30	
Pyrene	0.0190	0.00500	"	0.0333	0.00635	37.9	35-142	32.2	30	QR-02
1-Methylnaphthalene	0.0189	0.00500	"	0.0333	ND	56.7	15-130	10.4	50	
2-Methylnaphthalene	0.0196	0.00500	"	0.0333	ND	58.8	15-130	9.35	50	
Surrogate: 2-Methylnaphthalene-d10	0.0165		"	0.0333		49.4	40-150			
Surrogate: Fluoranthene-d10	0.0201		"	0.0333		60.3	40-150			

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 16:49

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0280 - EPA 3050B**

**Blank (BFK0280-BLK1)**

Prepared: 11/10/22 Analyzed: 11/12/22

Lead ND 0.200 mg/kg wet

**LCS (BFK0280-BS1)**

Prepared: 11/10/22 Analyzed: 11/12/22

Lead 17.7 0.200 mg/kg wet 20.0 88.3 80-120

**Duplicate (BFK0280-DUP1)**

**Source: 2211179-01**

Prepared: 11/10/22 Analyzed: 11/12/22

Lead 3.34 0.200 mg/kg dry 3.18 5.02 20

**Matrix Spike (BFK0280-MS1)**

**Source: 2211179-01**

Prepared: 11/10/22 Analyzed: 11/12/22

Lead 23.6 0.200 mg/kg dry 20.7 3.18 98.6 75-125

**Matrix Spike Dup (BFK0280-MSD1)**

**Source: 2211179-01**

Prepared: 11/10/22 Analyzed: 11/12/22

Lead 22.0 0.200 mg/kg dry 20.7 3.18 90.9 75-125 6.94 25

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Project: Culver MC 5-17 Tank Battery

Project Number: 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 16:49

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

**Batch BFK0312 - General Preparation**

Duplicate (BFK0312-DUP1)		Source: 2211126-08		Prepared & Analyzed: 11/11/22						
% Solids	94.2		%		94.6			0.358	20	

Summit Scientific

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Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 16:49

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

**Batch BFK0287 - General Preparation**

**LCS (BFK0287-BS1)**

Prepared: 11/10/22 Analyzed: 11/11/22

pH	9.19	pH Units	9.18	100	95-105
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**Duplicate (BFK0287-DUP1)**

**Source: 2210246-16**

Prepared: 11/10/22 Analyzed: 11/11/22

pH	8.34	pH Units	8.30	0.481	20
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Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*





Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Culver MC 5-17 Tank Battery

Project Number: 22071  
Project Manager: Sam Vogt

**Reported:**  
11/14/22 16:49

### Notes and Definitions

QR-02      The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

DET      Analyte DETECTED

ND      Analyte NOT DETECTED at or above the reporting limit

NR      Not Reported

dry      Sample results reported on a dry weight basis

RPD      Relative Percent Difference

**ATTACHMENT B**

**FIELD NOTES AND PHOTO LOG**



## EXCAVATION FIELD FORM

<b>SITE NAME / API #:</b> Culver MC 5-17 TB					<b>DATE:</b> 10/28/2022		<b>WEATHER:</b> 35 (F) Snow																																					
<b>ACCOUNTING CODES:</b>			<b>LOCATION ID:</b>			<b>LAT/LONG:</b> 40.052558, -105.138004																																						
<b>SITE DIRECTIONS:</b> 95TH & ISABELLE, N 3/4, W 1/2 INTO 1/2 INTO BOULDER COUNTY, COLO						<b># OF WATER WELLS WITHIN 1/2 MILE:</b>																																						
<b>LEGALS</b>						<b>DIST./DIR. TO NEAREST WATER WELL (ft.):</b>																																						
<b>SOIL TYPES:</b> Clayey Sand						<b>ESTIMATED DEPTH TO GROUNDWATER:</b> 6																																						
<b>LAND USE:</b>						<b>SURFACE WATER:</b>																																						
<b>LIVESTOCK PRESENT:</b> No			<b>OCCUPIED BUILDING:</b>			<b>CLIENT PERSONNEL:</b> Justin Kieth																																						
<b>Time</b>	<b>Soil Sample ID</b>	<b>PID ppm</b>	<b>Stain?</b>	<b>Odor?</b>	<b>Lab?</b>	<b>TASMAN PERSONNEL:</b> Dalton Hagen																																						
09:58	SS05@11'	551.5	Yes	Yes	Yes	<b>WHAT SPILLED:</b>																																						
12:50	SS06@10'	1884	Yes	Yes	Yes	<b>AMOUNT SPILLED:</b>																																						
						<b>CAUSE OF SPILL:</b>																																						
						<b>HOW WAS IT FOUND:</b>																																						
						<b>HOW WAS IT STOPPED/CONTAINED:</b>																																						
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<b>GROUNDWATER:</b>					
<b>Time</b>	<b>Groundwater Sample ID</b>	<b>Sheen?</b>	<b>Color</b>	<b>Odor?</b>	<b>Lab?</b>

<b>PRODUCED WATER TANK/VAULT REMOVALS:</b>	
Soil sample with highest PID reading noted above submitted for SAR, pH, EC	<b>SSID#</b>





## EXCAVATION FIELD FORM

<b>SITE NAME / API #:</b> Culver MC 5-17 TB						<b>DATE:</b> 11/1/2022		<b>WEATHER:</b> 39 (F) Sunny	
<b>ACCOUNTING CODES:</b>				<b>LOCATION ID:</b>		<b>LAT/LONG:</b> 40.052558, -105.138004			
<b>SITE DIRECTIONS:</b> 95TH & ISABELLE, N 3/4, W 1/2 INTO 1/2 INTO BOULDER COUNTY, COLO						<b># OF WATER WELLS WITHIN 1/2 MILE:</b>			
<b>LEGALS</b>						<b>DIST./DIR. TO NEAREST WATER WELL (ft.):</b>			
<b>SOIL TYPES:</b> Clayey Sand						<b>ESTIMATED DEPTH TO GROUNDWATER:</b> 10			
<b>LAND USE:</b>						<b>SURFACE WATER:</b>			
<b>LIVESTOCK PRESENT:</b>			<b>OCCUPIED BUILDING:</b>			<b>CLIENT PERSONNEL:</b> Justin Kieth			
<b>Time</b>	<b>Soil Sample ID</b>	<b>PID ppm</b>	<b>Stain?</b>	<b>Odor?</b>	<b>Lab?</b>	<b>TASMAN PERSONNEL:</b> Dalton Hagen			
10:09	SS09@10'	1.1	No	Yes	Yes	<b>WHAT SPILLED:</b>			
10:38	SS10@10'	1368	Yes	Yes	Yes	<b>AMOUNT SPILLED:</b>			
11:35	SS11@10'	557.4	Yes	Yes	Yes	<b>CAUSE OF SPILL:</b>			
13:16	SS12@8.5'	13.7	Yes	Slight	Yes	<b>HOW WAS IT FOUND:</b>			
13:37	SS13@8.5'	49.4	Yes	No	Yes				
13:56	SS14@10'	10.0	No	Slight	Yes				
15:12	SS15@8.5'	11.7	Yes	Slight	Yes	<b>HOW WAS IT STOPPED/CONTAINED:</b>			
						<b>HOW WAS IT RECOVERED:</b>			
						<b>Soil Disposal Facility:</b>			
						<b>Soil Trucks In</b>		<b>Soil Trucks Out</b>	
						<b>Company</b>	<b>#</b>	<b>Company</b>	<b>#</b>
<b>GROUNDWATER:</b>						<b>Measured Daily Yards Removed:</b>			
<b>Time</b>	<b>Groundwater Sample ID</b>	<b>Sheen?</b>	<b>Color</b>	<b>Odor?</b>	<b>Lab?</b>	<b>GW Disposal Facility:</b>			
						<b>Company</b>		<b>BBLS Out</b>	
<b>PRODUCED WATER TANK/VAULT REMOVALS:</b>									
<b>Soil sample with highest PID reading noted above submitted for SAR, pH, EC</b>		<b>SSID#</b>							

## EXCAVATION FIELD FORM

<b>SITE NAME / API #:</b> Culver MC TB 5-17						<b>DATE:</b> 11/2/2022		<b>WEATHER:</b> 46 (F) mostly Cloudy																																					
<b>ACCOUNTING CODES:</b>				<b>LOCATION ID:</b>		<b>LAT/LONG:</b> 40.052558, -105.138004																																							
<b>SITE DIRECTIONS:</b> 95TH & ISABELLE, N 3/4, W 1/2 INTO 1/2 INTO BOULDER COUNTY, COLO						<b># OF WATER WELLS WITHIN 1/2 MILE:</b>																																							
<b>LEGALS</b>						<b>DIST./DIR. TO NEAREST WATER WELL (ft.):</b>																																							
<b>SOIL TYPES:</b> Clayey Sand						<b>ESTIMATED DEPTH TO GROUNDWATER:</b> 10																																							
<b>LAND USE:</b>						<b>SURFACE WATER:</b>																																							
<b>LIVESTOCK PRESENT:</b>			<b>OCCUPIED BUILDING:</b>			<b>CLIENT PERSONNEL:</b> Justin Kieth																																							
<b>Time</b>	<b>Soil Sample ID</b>	<b>PID ppm</b>	<b>Stain?</b>	<b>Odor?</b>	<b>Lab?</b>	<b>TASMAN PERSONNEL:</b> Dalton Hagen																																							
09:30	SS16@10'	3257	Yes	Yes	Yes	<b>WHAT SPILLED:</b>																																							
09:41	SS17@14'	2604	Yes	Yes	Yes	<b>AMOUNT SPILLED:</b>																																							
11:15	SS18@10'	295.2	No	No	Yes	<b>CAUSE OF SPILL:</b>																																							
11:31	SS19@8'	227.1	No	No	Yes	<b>HOW WAS IT FOUND:</b>																																							
12:35	SS20@10'	1.8	No	No	Yes																																								
12:40	SS21@10'	2.6	Yes	No	Yes																																								
15:00	SS22@10.5'	1912	Yes	Yes	Yes	<b>HOW WAS IT STOPPED/CONTAINED:</b>																																							
15:05	SS23@13'	2007	Yes	Yes	Yes	<b>HOW WAS IT RECOVERED:</b>																																							
						<b>Soil Disposal Facility:</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Soil Trucks In</th> <th colspan="2">Soil Trucks Out</th> </tr> <tr> <th>Company</th> <th>#</th> <th>Company</th> <th>#</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>				Soil Trucks In		Soil Trucks Out		Company	#	Company	#																												
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### GROUNDWATER:

Time	Groundwater Sample ID	Sheen?	Color	Odor?	Lab?

### PRODUCED WATER TANK/VAULT REMOVALS:

Soil sample with highest PID reading noted above submitted for SAR, pH, EC	SSID#

<b>Measured Daily Yards Removed:</b>	
<b>GW Disposal Facility:</b>	
Company	BBLs Out









## EXCAVATION FIELD FORM

<b>SITE NAME / API #:</b> Culver MC 5-17 TB						<b>DATE:</b> 11/8/2022		<b>WEATHER:</b> 41 (F) Mostly Cloudy	
<b>ACCOUNTING CODES:</b>				<b>LOCATION ID:</b>		<b>LAT/LONG:</b> 40.052558, -105.138004			
<b>SITE DIRECTIONS:</b> 95TH & ISABELLE, N 3/4, W 1/2 INTO 1/2 INTO BOULDER COUNTY, COLO						<b># OF WATER WELLS WITHIN 1/2 MILE:</b>			
<b>LEGALS</b>						<b>DIST./DIR. TO NEAREST WATER WELL (ft.):</b>			
<b>SOIL TYPES:</b> Clayey Sand						<b>ESTIMATED DEPTH TO GROUNDWATER:</b> 10			
<b>LAND USE:</b>						<b>SURFACE WATER:</b>			
<b>LIVESTOCK PRESENT:</b>			<b>OCCUPIED BUILDING:</b>			<b>CLIENT PERSONNEL:</b> Justin Kieth			
<b>Time</b>	<b>Soil Sample ID</b>	<b>PID ppm</b>	<b>Stain?</b>	<b>Odor?</b>	<b>Lab?</b>	<b>TASMAN PERSONNEL:</b> Dalton Hagen			
09:20	SS40@8.5'	0.7	Yes	Yes	Yes	<b>WHAT SPILLED:</b>			
09:35	SS41@11'	836.0	Yes	Yes	Yes	<b>AMOUNT SPILLED:</b>			
09:42	SS42@8.5'	2.3	Yes	No	Yes	<b>CAUSE OF SPILL:</b>			
12:10	SS43@11'	158.9	Yes	Slight	Yes	<b>HOW WAS IT FOUND:</b>			
12:15	SS44@8.5'	4.1	Yes	No	Yes				
						<b>HOW WAS IT STOPPED/CONTAINED:</b>			
						<b>HOW WAS IT RECOVERED:</b>			
						<b>Soil Disposal Facility:</b>			
						<b>Soil Trucks In</b>		<b>Soil Trucks Out</b>	
						<b>Company</b>	<b>#</b>	<b>Company</b>	<b>#</b>
<b>GROUNDWATER:</b>						<b>Measured Daily Yards Removed:</b>			
<b>Time</b>	<b>Groundwater Sample ID</b>	<b>Sheen?</b>	<b>Color</b>	<b>Odor?</b>	<b>Lab?</b>	<b>GW Disposal Facility:</b>			
						<b>Company</b>		<b>BBLS Out</b>	
<b>PRODUCED WATER TANK/VAULT REMOVALS:</b>									
<b>Soil sample with highest PID reading noted above submitted for SAR, pH, EC</b>		<b>SSID#</b>							

## EXCAVATION FIELD FORM

<b>SITE NAME / API #:</b> Culver MC 5-17 TB					<b>DATE:</b> 11/9/2022		<b>WEATHER:</b> 31 (F) Fog																																					
<b>ACCOUNTING CODES:</b>				<b>LOCATION ID:</b>		<b>LAT/LONG:</b> 40.052558, -105.138004																																						
<b>SITE DIRECTIONS:</b> 95TH & ISABELLE, N 3/4, W 1/2 INTO 1/2 INTO BOULDER COUNTY, COLO						<b># OF WATER WELLS WITHIN 1/2 MILE:</b>																																						
<b>LEGALS</b>						<b>DIST./DIR. TO NEAREST WATER WELL (ft.):</b>																																						
<b>SOIL TYPES:</b> Clayey Sand						<b>ESTIMATED DEPTH TO GROUNDWATER:</b> 10																																						
<b>LAND USE:</b>						<b>SURFACE WATER:</b>																																						
<b>LIVESTOCK PRESENT:</b>			<b>OCCUPIED BUILDING:</b>			<b>CLIENT PERSONNEL:</b> Justin Kieth																																						
<b>Time</b>	<b>Soil Sample ID</b>	<b>PID ppm</b>	<b>Stain?</b>	<b>Odor?</b>	<b>Lab?</b>	<b>TASMAN PERSONNEL:</b> Dalton Hagen																																						
10:28	SS45@11'	1571	Yes	Yes	Yes	<b>WHAT SPILLED:</b>																																						
10:30	SS46@8.5'	21.2	Yes	No	Yes	<b>AMOUNT SPILLED:</b>																																						
14:50	SS47@12'	1202	Yes	Yes	Yes	<b>CAUSE OF SPILL:</b>																																						
15:01	SS48@8.5'	25.1	No	No	Yes	<b>HOW WAS IT FOUND:</b>																																						
						<b>HOW WAS IT STOPPED/CONTAINED:</b>																																						
						<b>HOW WAS IT RECOVERED:</b>																																						
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<b>GROUNDWATER:</b>					
<b>Time</b>	<b>Groundwater Sample ID</b>	<b>Sheen?</b>	<b>Color</b>	<b>Odor?</b>	<b>Lab?</b>
09:02	GW01	Yes	Dark Brown	No	Yes



<b>PRODUCED WATER TANK/VAULT REMOVALS:</b>	
Soil sample with highest PID reading noted above submitted for SAR, pH, EC	<b>SSID#</b>





							
<b>Equipment ID:</b>		<b>Equipment Type:</b>		<b>Equipment ID:</b>		<b>Equipment Type:</b>	
<b>Material:</b>		<b>Volume:</b>		<b>Material:</b>		<b>Volume:</b>	
		<b>Contents:</b>				<b>Contents:</b>	
<b>Notes/Conditions:</b>				<b>Notes/Conditions:</b>			



							
<b>Equipment ID:</b>		<b>Equipment Type:</b>		<b>Equipment ID:</b>		<b>Equipment Type:</b>	
<b>Material:</b>		<b>Volume:</b>		<b>Material:</b>		<b>Volume:</b>	
				<b>Contents:</b>			
<b>Notes/Conditions:</b>				<b>Notes/Conditions:</b>			





Equipment ID:		Equipment Type:		Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:		Material:	Volume:	Contents:	
Notes/Conditions:				Notes/Conditions:			



							
<b>Equipment ID:</b>		<b>Equipment Type:</b>		<b>Equipment ID:</b>		<b>Equipment Type:</b>	
<b>Material:</b>		<b>Volume:</b>		<b>Material:</b>		<b>Volume:</b>	
		<b>Contents:</b>				<b>Contents:</b>	
<b>Notes/Conditions:</b>				<b>Notes/Conditions:</b>			





Equipment ID:		Equipment Type:		Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:		Material:	Volume:	Contents:	
Notes/Conditions:				Notes/Conditions:			