

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 3rd-party consultant. Details of activities completed by the 3rd-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)
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- Table 1B – Soil Sample Locations Left In Place
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- Table 5B - Soil Analytical Data – Soil Reclamation Left In Place

Attachments:

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

FIGURES

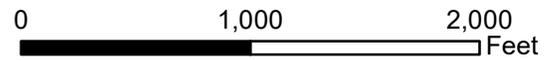
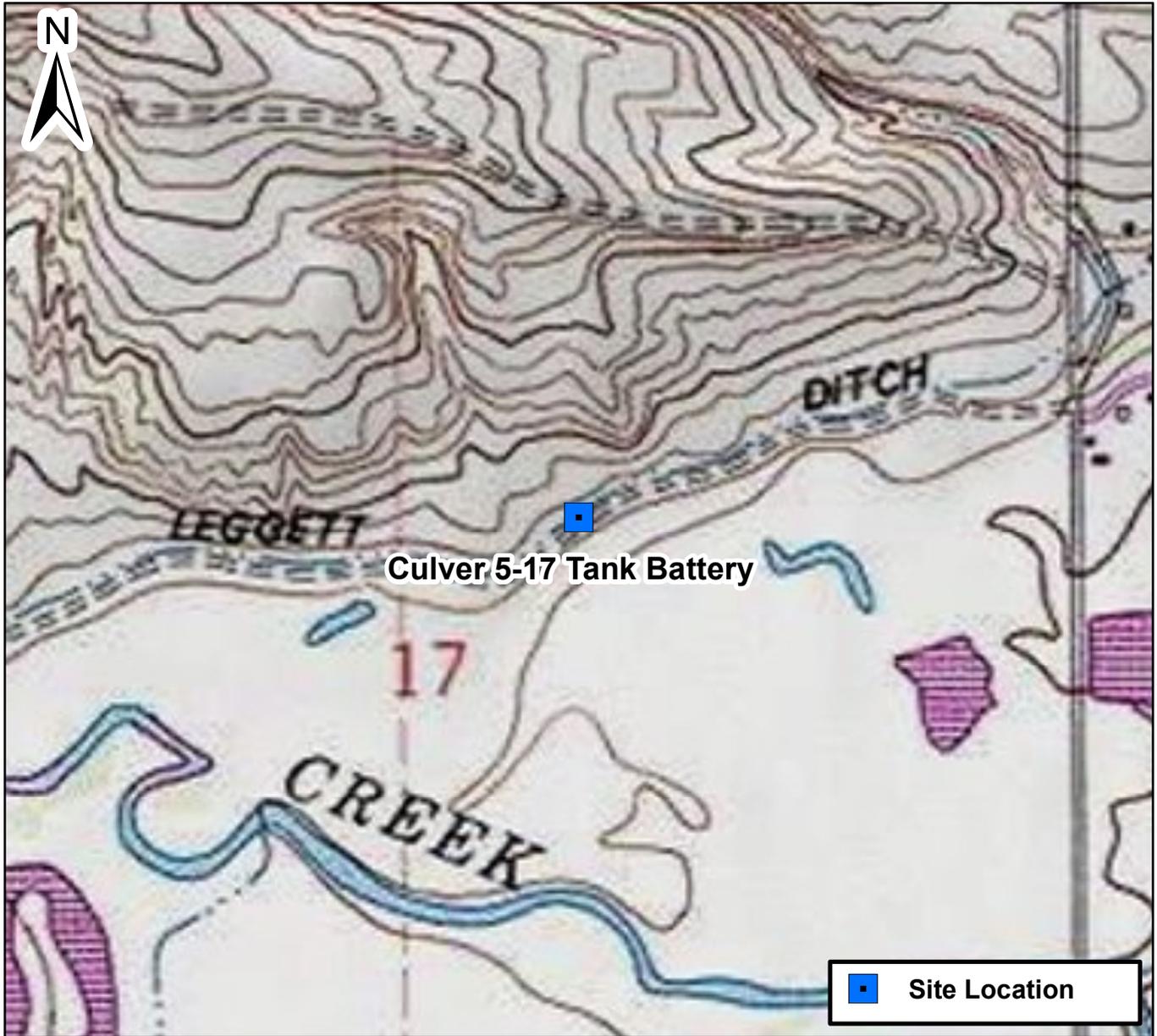


Figure 1

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





Legend

-  Final excavation extent – 11/10/2022
-  Monitoring well location (Collected via Trimble GPS)
-  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.

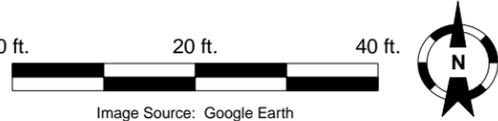


Image Source: Google Earth

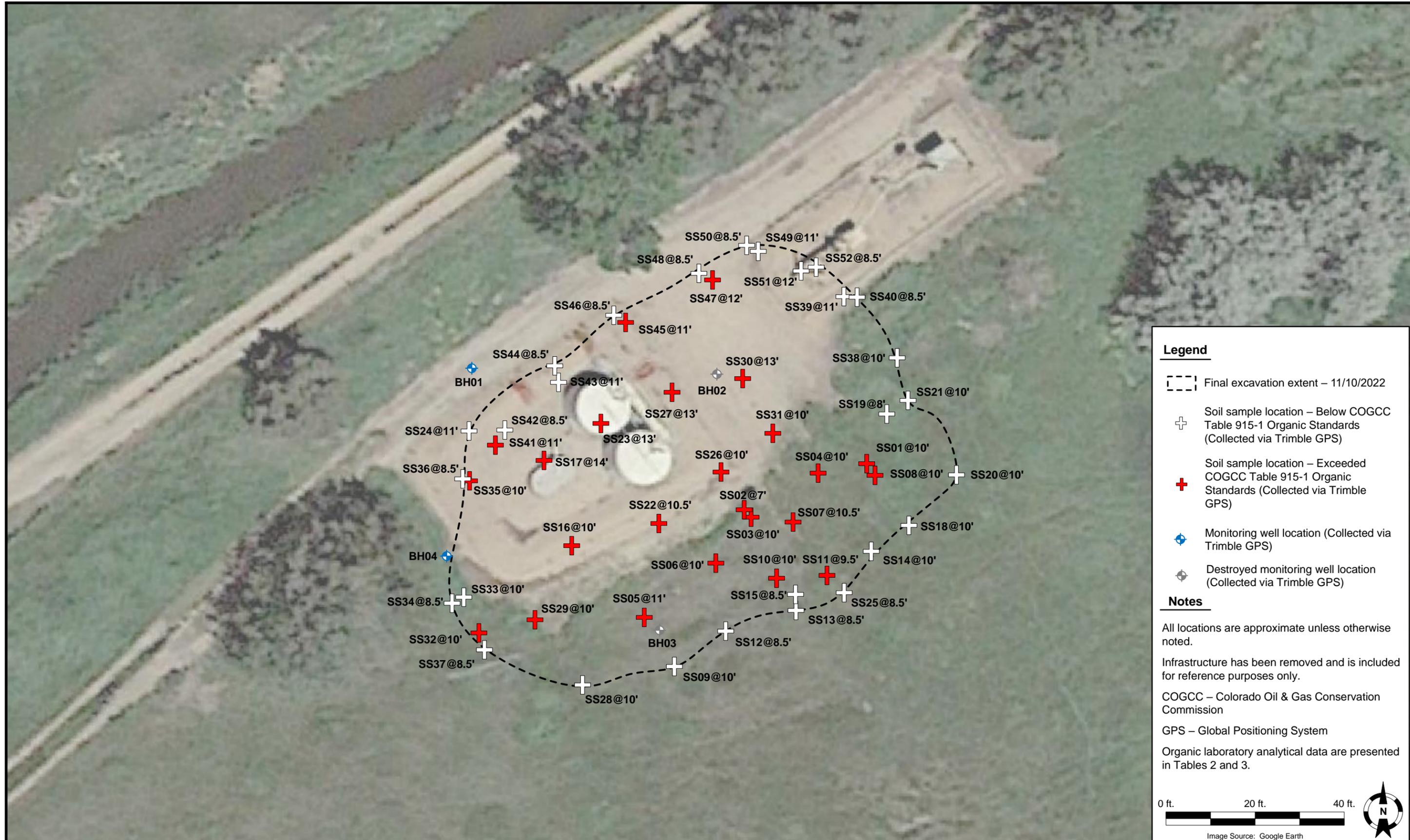
DATE:	January 31, 2023
DESIGNED BY:	S. Vogt
DRAWN BY:	S. Kirylo



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

Site Overview Map

FIGURE
2



Legend

- Final excavation extent – 11/10/2022
- Soil sample location – Below COGCC Table 915-1 Organic Standards (Collected via Trimble GPS)
- Soil sample location – Exceeded COGCC Table 915-1 Organic Standards (Collected via Trimble GPS)
- Monitoring well location (Collected via Trimble GPS)
- Destroyed monitoring well location (Collected via Trimble GPS)

Notes

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COGCC – Colorado Oil & Gas Conservation Commission

GPS – Global Positioning System

Organic laboratory analytical data are presented in Tables 2 and 3.

0 ft. 20 ft. 40 ft.

Image Source: Google Earth

DATE: January 31, 2023

DESIGNED BY: S. Vogt

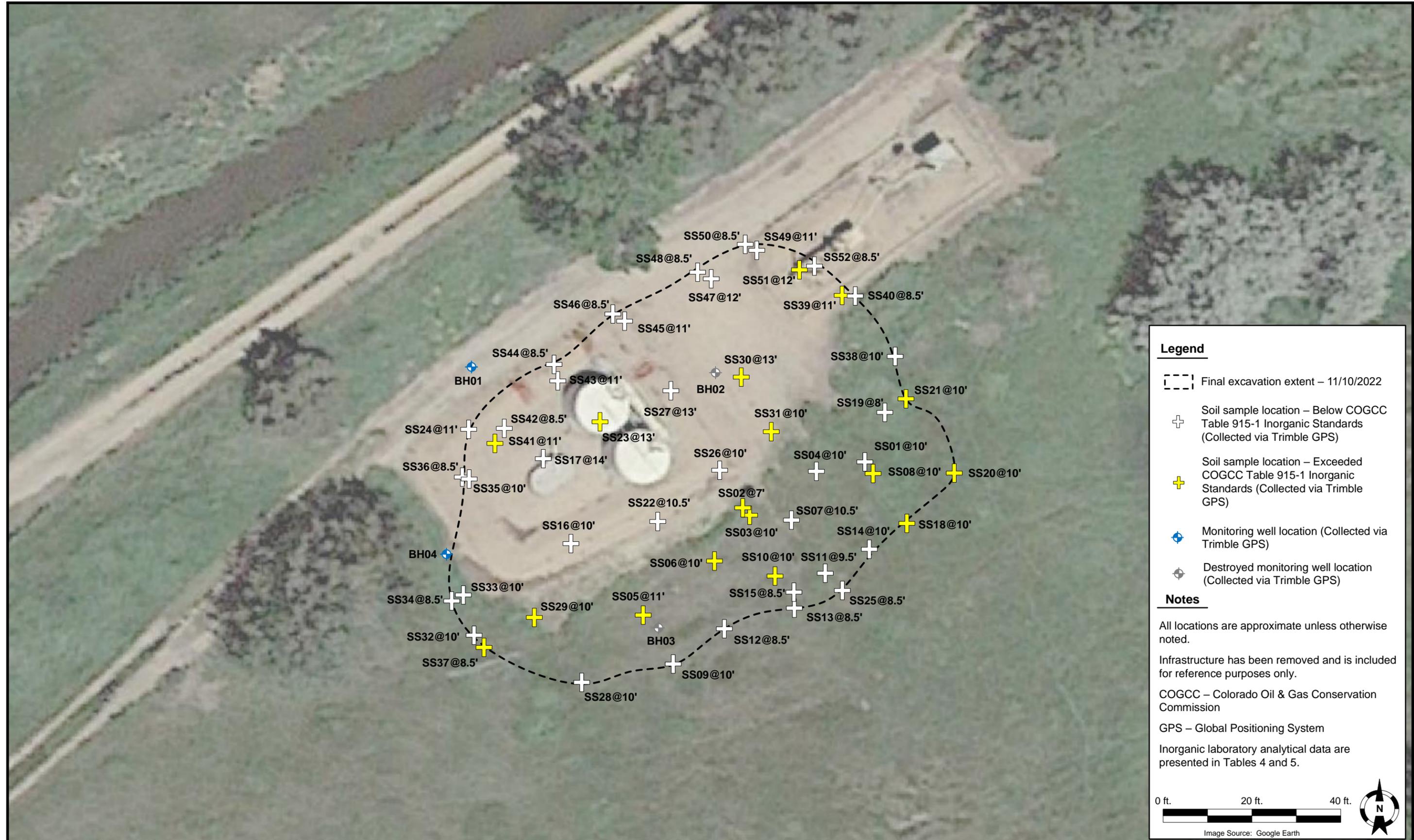
DRAWN BY: S. Kirylo



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 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

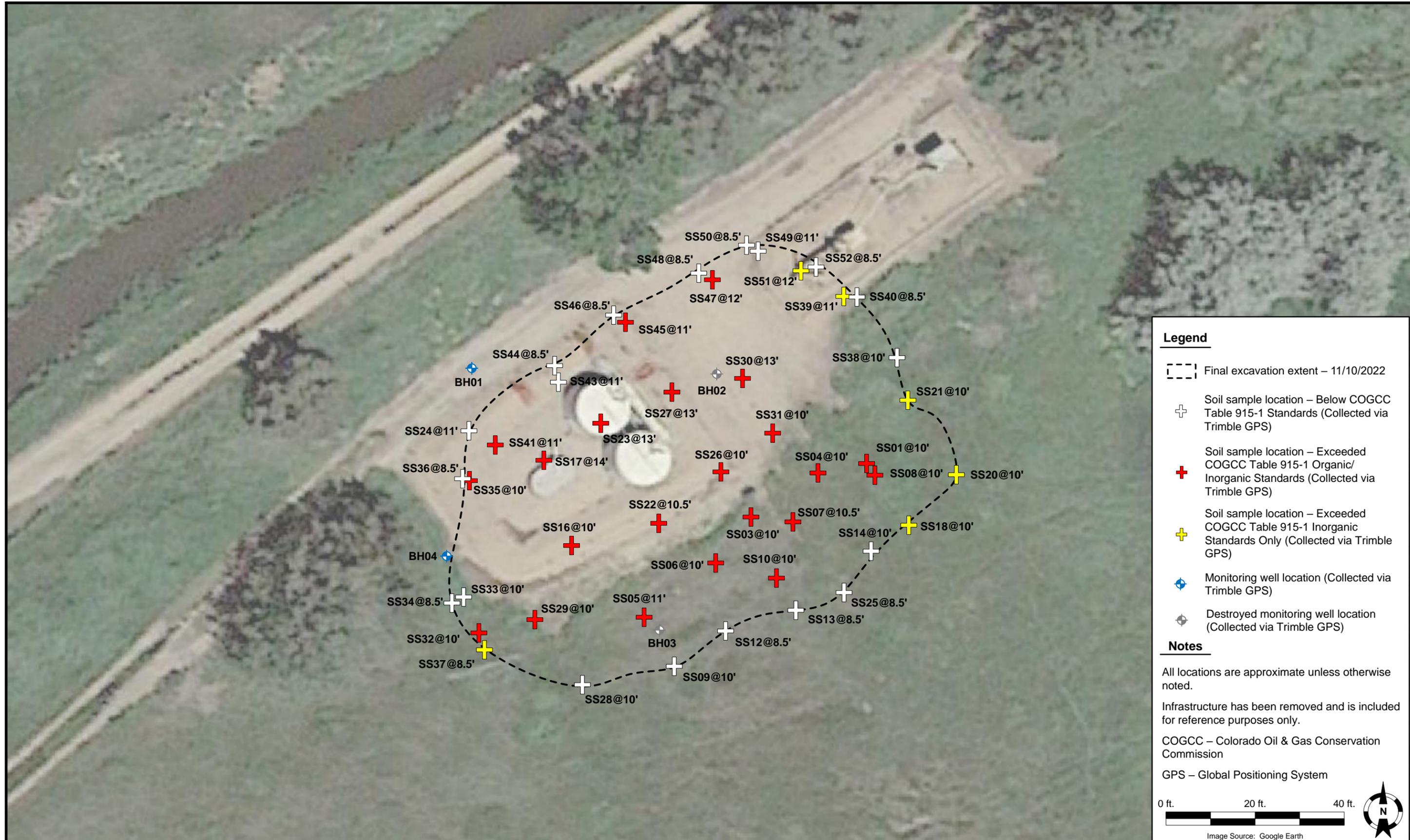
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 Boulder County, Colorado

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

FIGURE
 3B



Legend

- Final excavation extent – 11/10/2022
- Soil sample location – Below COGCC Table 915-1 Standards (Collected via Trimble GPS)
- Soil sample location – Exceeded COGCC Table 915-1 Organic/ Inorganic Standards (Collected via Trimble GPS)
- Soil sample location – Exceeded COGCC Table 915-1 Inorganic Standards Only (Collected via Trimble GPS)
- Monitoring well location (Collected via Trimble GPS)
- Destroyed monitoring well location (Collected via Trimble GPS)

Notes

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COGCC – Colorado Oil & Gas Conservation Commission

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0 ft. 20 ft. 40 ft.

Image Source: Google Earth

DATE: March 2, 2023

DESIGNED BY: S. Vogt

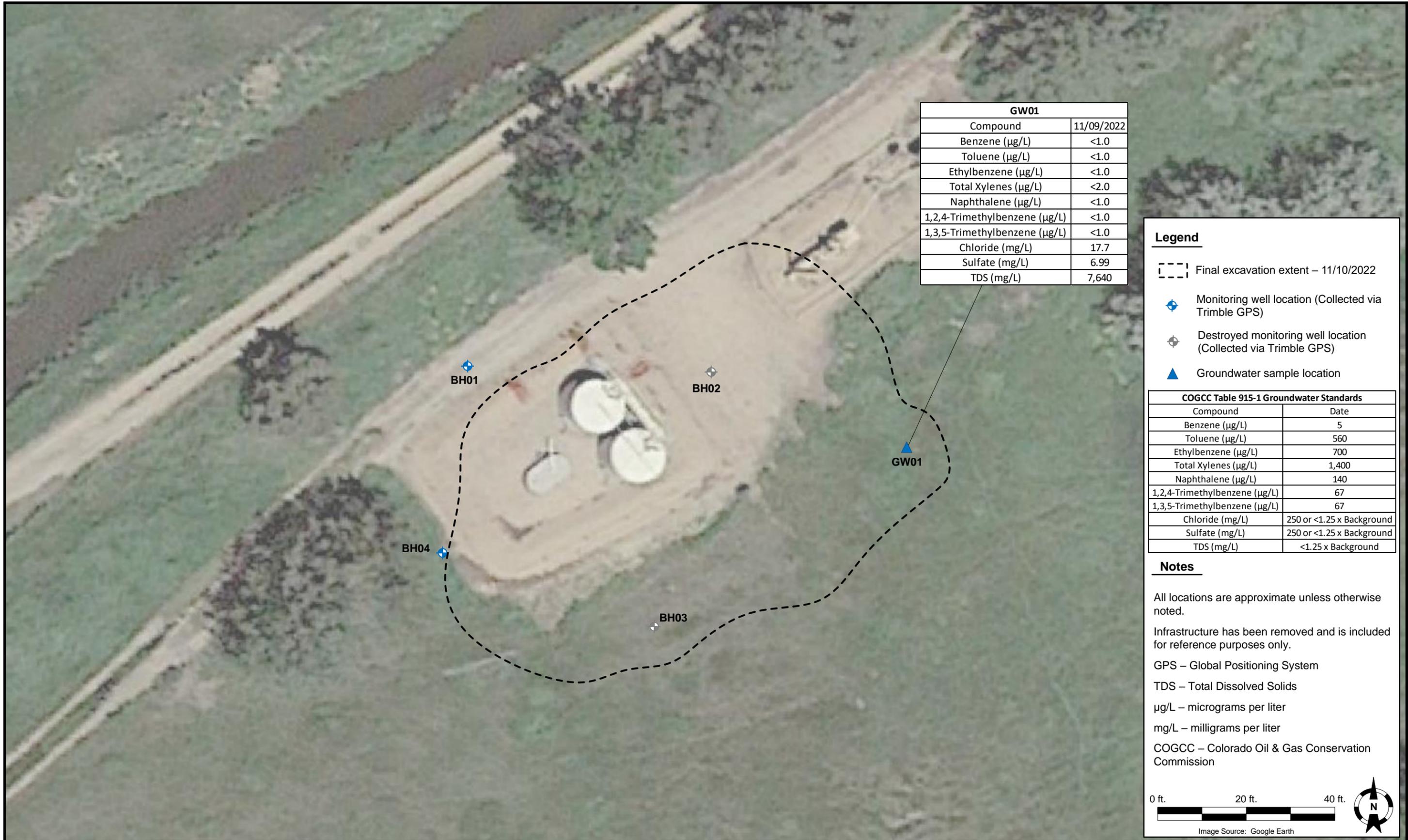
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Extraction Oil & Gas, Inc.
Culver 5-17 Tank Battery
 SWNE Sec. 17-T1N-R69W
 Boulder County, Colorado

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

FIGURE
 3C



GW01	
Compound	11/09/2022
Benzene (µg/L)	<1.0
Toluene (µg/L)	<1.0
Ethylbenzene (µg/L)	<1.0
Total Xylenes (µg/L)	<2.0
Naphthalene (µg/L)	<1.0
1,2,4-Trimethylbenzene (µg/L)	<1.0
1,3,5-Trimethylbenzene (µg/L)	<1.0
Chloride (mg/L)	17.7
Sulfate (mg/L)	6.99
TDS (mg/L)	7,640

Legend

- Final excavation extent – 11/10/2022
- Monitoring well location (Collected via Trimble GPS)
- Destroyed monitoring well location (Collected via Trimble GPS)
- Groundwater sample location

COGCC Table 915-1 Groundwater Standards	
Compound	Date
Benzene (µg/L)	5
Toluene (µg/L)	560
Ethylbenzene (µg/L)	700
Total Xylenes (µg/L)	1,400
Naphthalene (µg/L)	140
1,2,4-Trimethylbenzene (µg/L)	67
1,3,5-Trimethylbenzene (µg/L)	67
Chloride (mg/L)	250 or <1.25 x Background
Sulfate (mg/L)	250 or <1.25 x Background
TDS (mg/L)	<1.25 x Background

Notes

All locations are approximate unless otherwise noted.

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

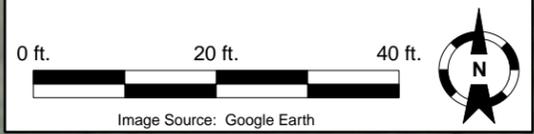
GPS – Global Positioning System

TDS – Total Dissolved Solids

µg/L – micrograms per liter

mg/L – milligrams per liter

COGCC – Colorado Oil & Gas Conservation Commission



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 Groundwater Sample
 Analytical Map
 (11/09/2022)

FIGURE
 4

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 ⁽¹⁾			0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
COGCC Organic Compounds in Soils ⁽²⁾			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 ⁽¹⁾			0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
COGCC Organic Compounds in Soils ⁽²⁾			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 ⁽¹⁾			0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
COGCC Organic Compounds in Soils ⁽²⁾			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 ⁽¹⁾			0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
COGCC Organic Compounds in Soils ⁽²⁾			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 ⁽¹⁾			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 ⁽²⁾			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	<0.00500	0.0377	<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

**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 ⁽¹⁾			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 ⁽²⁾			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	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

(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 ⁽¹⁾			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
COGCC Metals in Soils ⁽²⁾			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⁽¹⁾			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
COGCC Metals in Soils⁽²⁾			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 ⁽¹⁾			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
COGCC Metals in Soils ⁽²⁾			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	-	-	-	-
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

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 ⁽¹⁾			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
COGCC Metals in Soils ⁽²⁾			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)
COGCC Soil Suitability for Reclamation⁽¹⁾			6 - 8.3	< 6	< 4	2
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	8.78	1.080	1.080	0.399
PWV01N@3'	3'	04/19/2022	8.53	0.111	0.266	<0.100
PWV01E@3.5'	3.5'	04/19/2022	8.67	0.987	0.581	0.723
PWV01S@1'	1'	04/19/2022	8.48	0.057	0.272	0.241
PWV01W@2'	2'	04/19/2022	8.47	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	8.45	-	-	-
BH04@6.5'	6.5'	09/09/2022	8.35	-	-	-
SS01@10'	10'	10/27/2022	8.07	-	-	-
SS02@7'	7'	10/27/2022	9.21	-	-	-
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	-	-	-
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	8.35	-	-	-

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)
COGCC Soil Suitability for Reclamation⁽¹⁾			6 - 8.3	< 6	< 4	2
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)
COGCC Soil Suitability for Reclamation⁽¹⁾			6 - 8.3	< 6	< 4	2
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	-	-	-
BACKGROUND						
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 ⁽¹⁾		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	10.7	<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 ⁽¹⁾			0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
COGCC Organic Compounds in Soils ⁽²⁾			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 ⁽¹⁾			0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
COGCC Organic Compounds in Soils ⁽²⁾			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 ⁽¹⁾			0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
COGCC Organic Compounds in Soils ⁽²⁾			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 ⁽¹⁾			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 ⁽²⁾			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 ⁽¹⁾			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 ⁽²⁾			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 ⁽¹⁾			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 ⁽²⁾			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⁽¹⁾			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
COGCC Metals in Soils⁽²⁾			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⁽¹⁾			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
COGCC Metals in Soils⁽²⁾			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 ⁽¹⁾			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
COGCC Metals in Soils ⁽²⁾			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)
COGCC Soil Suitability for Reclamation⁽¹⁾			6 - 8.3	< 6	< 4	2
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)
COGCC Soil Suitability for Reclamation⁽¹⁾			6 - 8.3	< 6	< 4	2
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	-	-	-
BACKGROUND						
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)
COGCC Soil Suitability for Reclamation⁽¹⁾			6 - 8.3	< 6	< 4	2

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



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.

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

Date/time completed: 10/10/12

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

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

Airbill #: n/a

Cooler Number/Temperature: 1, 20 °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 ⁽¹⁾ ?		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 ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		X		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	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 ⁽¹⁾ ? (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 ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			X	
Additional Comments (if any):				

⁽¹⁾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) [Signature]

Date/Time Reviewed 10/10/12

Origins Laboratory, Inc.

[Signature]

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
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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.



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-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.



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-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.



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-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.



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-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.



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-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 " " "

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

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.



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-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.



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-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.



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

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.



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

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.



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

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.



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

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

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.



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

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 B2J1012 - EPA 5030 (soil)

Blank (B2J1012-BLK1)

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			

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B2J1012 - EPA 5030 (soil)

LCS (B2J1012-BS1)

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.



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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

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.



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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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B2J1012 - EPA 5030 (soil)

Matrix Spike Dup (B2J1012-MSD1)	Source: Y210132-03			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.

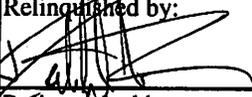
Summit Scientific

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

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

Project Manager: Sara Vajt, Jacob Evans
E-Mail: Svajt@tasman-geo.com, Jevans@civiresources.com
Project Name: Calver MC 5-17
Project Number:

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analyze For:							Special Instructions
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	BTEX	Naph	TMBs	TPH	PAHs	Lead	
SS#1 @ 10'	10.27.22	9:45	2			X			X			X	X	X	X	X	X	
SS#2 @ 7'	↓	10:00	↓									↓	↓	↓	↓	↓	↓	
SS#3 @ 10'	↓	10:37	↓									↓	↓	↓	↓	↓	↓	
SS#4 @ 10'	↓	11:26	↓									↓	↓	↓	↓	↓	↓	

Relinquished by: 	Date/Time: <u>10.27.22 15:22</u>	Received by: <u>Tasman Lockbox</u>	Date/Time: <u>10.27.22 15:22</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>Tasman Lockbox</u>	Date/Time: <u>10.27.22 17:10</u>	Received by: 	Date/Time: <u>10.27.22 17:10</u>		
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:		

S₂

Sample Receipt Checklist

S2 Work Order#

2210525Client: Critas/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)

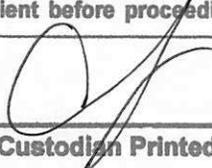
8.4

Thermometer #

1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ 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"/>	artice
If custody seals are present, are they intact? ⁽¹⁾	<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 ²⁺), Hexavalent Chromium (Cr ⁶⁺ , 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? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<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)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ 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):

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.
Custodian Printed Name10-27-22
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

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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

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	
Anthracene	0.0566	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0340	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.0133	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0186	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.00744	0.00500	"	"	"	"	"	"	
Chrysene	0.0561	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.157	0.00500	"	"	"	"	"	"	
Fluorene	0.0852	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.00603	0.00500	"	"	"	"	"	"	
Pyrene	0.153	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.133	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
Lead	3.53	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
% Solids	81.7		%	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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.07		pH Units	1	BFJ0801	10/28/22	10/28/22	EPA 9045D	

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

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	0.035	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	380	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)	510	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

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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

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	"	"	"	"	"	"	
Benzo (a) anthracene	0.0508	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.0272	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0343	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.0143	0.00500	"	"	"	"	"	"	
Chrysene	0.0997	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.162	0.00500	"	"	"	"	"	"	
Fluorene	0.190	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.0136	0.00500	"	"	"	"	"	"	
Pyrene	0.167	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0991	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
Lead	5.63	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
% Solids	81.8		%	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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.21		pH Units	1	BFJ0801	10/28/22	10/28/22	EPA 9045D	

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

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	0.12	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	260	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)	190	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

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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

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	
Anthracene	0.0321	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0446	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.0203	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0261	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.0104	0.00500	"	"	"	"	"	"	
Chrysene	0.0592	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.149	0.00500	"	"	"	"	"	"	
Fluorene	0.112	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.0105	0.00500	"	"	"	"	"	"	
Pyrene	0.139	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0905	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
Lead	3.96	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
% Solids	82.7		%	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

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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.47		pH Units	1	BFJ0801	10/28/22	10/28/22	EPA 9045D	

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

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	"	"	"	"	"	"	
Ethylbenzene	0.0065	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	0.016	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	730	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
C10-C28 (DRO)	690	50	mg/kg	1	BFJ0782	10/27/22	10/27/22	EPA 8015M	
C28-C36 (ORO)	66	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

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

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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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

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	

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

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

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			

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

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0416</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0557</i>		<i>"</i>	<i>0.0400</i>		<i>139</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0473</i>		<i>"</i>	<i>0.0400</i>		<i>118</i>	<i>50-150</i>			

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

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -Terphenyl	8.83		"	12.5		70.6	30-150				

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

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 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	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0235</i>		<i>"</i>	<i>0.0333</i>		<i>70.4</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0296</i>		<i>"</i>	<i>0.0333</i>		<i>88.9</i>		<i>40-150</i>		

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		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0304</i>		<i>"</i>	<i>0.0333</i>		<i>91.1</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0355</i>		<i>"</i>	<i>0.0333</i>		<i>107</i>		<i>40-150</i>		

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

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 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				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0174</i>		<i>"</i>	<i>0.0333</i>		<i>52.1</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0222</i>		<i>"</i>	<i>0.0333</i>		<i>66.5</i>	<i>40-150</i>				

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		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0188</i>		<i>"</i>	<i>0.0333</i>		<i>56.3</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0230</i>		<i>"</i>	<i>0.0333</i>		<i>68.9</i>	<i>40-150</i>				

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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

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	Source		%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

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	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BFJ0801 - General Preparation

LCS (BFJ0801-BS1)

Prepared & Analyzed: 10/28/22

pH	9.18	pH Units	9.18	100	95-105
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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

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

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

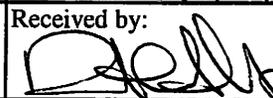
741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client: Civitas Tasman
Address: 6855 W. 119th Ave.
City/State/Zip: Broomfield, CO 80020
Phone: 610-465-9678 Fax: _____
Sampler Name: D4

Project Manager: Sam Vogt, Jacob Evans
E-Mail: svogt@tasman-geo.com, jevans@envirsource.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 ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	BTEX	Naph	TMBs	TPH	PAHs	Lead	
SS @ 5.1'	10.28.22	9:58	2			X			X			X	X	X	X	X	X	*Sat. Paste
SS @ 6.10'	↓	12:50	↓			↓			↓			X	X	X	X	X	X	
SS @ 7.10' DH																		
SS @ 8.10' DH																		

Relinquished by: 	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) 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>Tasman Lockbox</u>	Date/Time: <u>10.28.22 17:20</u>	Received by: 	Date/Time: <u>10.28.22 17:20</u>		
Relinquished by: _____	Date/Time: _____	Received in Lab by: _____	Date/Time: _____		

S₂

Sample Receipt Checklist

S2 Work Order# 2210550

Client: Cintas/Tasman Client Project ID: Culver MC 5-17 Tank Battery

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

-

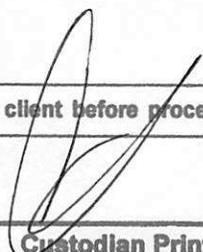
Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ 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? ⁽¹⁾	<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 ²⁺), Hexavalent Chromium (Cr ⁶⁺ , 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? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<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)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ 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):

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


Custodian Printed Name

10/28/28
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:
11/01/22 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	"	"	"	"	"	"	
Naphthalene	0.083	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	11	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	"	"	"	"	"	"	
Benzo (a) anthracene	0.0109	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.00537	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.0110	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0386	0.00500	"	"	"	"	"	"	
Fluorene	0.0181	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.0351	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0785	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.174	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
Lead	5.60	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

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

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

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

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

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

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	
Anthracene	0.104	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.164	0.100	"	20	"	"	11/01/22	"	
Benzo (a) pyrene	0.0932	0.00500	"	1	"	"	11/01/22	"	
Benzo (b) fluoranthene	0.118	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.0471	0.00500	"	"	"	"	"	"	
Chrysene	0.186	0.100	"	20	"	"	11/01/22	"	
Dibenz (a,h) anthracene	0.00905	0.00500	"	1	"	"	11/01/22	"	
Fluoranthene	0.586	0.100	"	20	"	"	11/01/22	"	
Fluorene	0.119	0.00500	"	1	"	"	11/01/22	"	
Indeno (1,2,3-cd) pyrene	0.0478	0.00500	"	"	"	"	"	"	
Pyrene	0.489	0.100	"	20	"	"	11/01/22	"	
1-Methylnaphthalene	2.33	0.100	"	"	"	"	"	"	
2-Methylnaphthalene	0.834	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
Lead	2.58	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
% Solids	80.1		%	1	BFJ0845	10/31/22	10/31/22	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:
 11/01/22 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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.35		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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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

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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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

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

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -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	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

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

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

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

Summit Scientific

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

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

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

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

Summit Scientific

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

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

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

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

Client: Civitas/Tasman
Address: 6855 W 119th Ave
City/State/Zip: Broomfield, CO 80020
Phone: 616-405-9678 Fax: _____
Sampler Name: DH

Project Manager: Sara Vogt, Jacob Evans
E-Mail: Svogt@tasman-geo.com, Jevans@civiresources.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 ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	BTEX	N _{org}	TMDs	TPH	PAHs	Lead		pH*	
SS07@10.5'	10.31.22	10:21	2			X			X				X	X	X	X	X	X	X	* Sat. Paste
SS08@10'	↓	15:11	↓			↓			↓				↓	↓	↓	↓	↓	↓	↓	

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		
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:		

S₂

Sample Receipt Checklist

S2 Work Order# 2210576

Client: Civitas Trasman Client Project ID: Culver mc S-17 Tank Battery

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

Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ 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"/>	<u>on ice</u>
If custody seals are present, are they intact? ⁽¹⁾	<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"/>	<u>same day</u>
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , 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? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<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)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ 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):				

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

[Signature]
Custodian Printed Name

10-31-22
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:
11/02/22 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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
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		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.3	0.50		"	"	"	"	"	"	

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
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		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:
11/02/22 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	
Anthracene	0.0558	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0599	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.0353	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0458	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.0192	0.00500	"	"	"	"	"	"	
Chrysene	0.100	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.311	0.100	"	20	"	"	11/02/22	"	
Fluorene	0.101	0.00500	"	1	"	"	11/02/22	"	
Indeno (1,2,3-cd) pyrene	0.0173	0.00500	"	"	"	"	"	"	
Pyrene	0.269	0.100	"	20	"	"	11/02/22	"	
1-Methylnaphthalene	1.46	0.100	"	"	"	"	"	"	
2-Methylnaphthalene	5.37	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
Lead	2.04	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
% Solids	85.2		%	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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.26		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	0.46	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1700	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

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

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	4.38	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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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

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	

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

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	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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	
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			

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

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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -Terphenyl	14.0		"	12.5		112		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:
11/02/22 14:05

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 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	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0246</i>		<i>"</i>	<i>0.0333</i>		<i>73.8</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0341</i>		<i>"</i>	<i>0.0333</i>		<i>102</i>	<i>40-150</i>			

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			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0301</i>		<i>"</i>	<i>0.0333</i>		<i>90.3</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0317</i>		<i>"</i>	<i>0.0333</i>		<i>95.0</i>	<i>40-150</i>			

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:
11/02/22 14:05

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 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			

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

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

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

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 - Quality Control

Summit Scientific

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

Batch BFK0020 - General Preparation

Duplicate (BFK0020-DUP1)

Source: 2210558-01

Prepared & Analyzed: 11/01/22

% Solids	97.9		%		97.7			0.143	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

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

Summit Scientific

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

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.

2211016

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: svagt@tasman-gco.com, j.evans@civiresources.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 ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	BTEX	Naph	TMDs	TPH	PAHs		Lead
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: 	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>	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>TASMAN LOCKBOX</u>	Date/Time: <u>11:22</u> <u>1743</u>	Received by: 	Date/Time: <u>11:22</u> <u>1743</u>		
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:		

S₂

Sample Receipt Checklist

S2 Work Order# 2217016

Client: Civitas/Trasman Client Project ID: Culver MC 517 Tank Battery

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

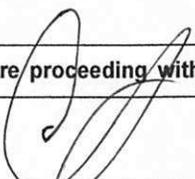
Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ 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? ⁽¹⁾	<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 ²⁺), Hexavalent Chromium (Cr ⁶⁺ , 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? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<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)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ 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):

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


Custodian Printed Name

11-1-22
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:
11/03/22 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		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 10:09**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
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		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 10:09**

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

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	0.16	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	380	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)	260	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	
Anthracene	0.00534	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	0.0254	0.00500	"	"	"	"	"	"	
Fluorene	0.0159	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.0202	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0810	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.165	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
Lead	3.08	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	0.32	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	290	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)	290	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

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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

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	"	"	"	"	"	"	
Chrysene	0.00648	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0301	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.173	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.408	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
Lead	2.43	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

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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

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 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 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 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 13:16**

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

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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	

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

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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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

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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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

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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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
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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

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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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0361		"	0.0400		90.3	50-150			
<i>Surrogate: Toluene-d8</i>	0.0436		"	0.0400		109	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	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			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0334		"	0.0400		83.6	50-150			
<i>Surrogate: Toluene-d8</i>	0.0444		"	0.0400		111	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	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			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0358		"	0.0400		89.5	50-150			
<i>Surrogate: Toluene-d8</i>	0.0442		"	0.0400		111	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	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	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0387</i>		<i>"</i>	<i>0.0400</i>		<i>96.8</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0440</i>		<i>"</i>	<i>0.0400</i>		<i>110</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0428</i>		<i>"</i>	<i>0.0400</i>		<i>107</i>	<i>50-150</i>			

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

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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -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

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

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	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0266</i>		"	<i>0.0333</i>		<i>79.8</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0323</i>		"	<i>0.0333</i>		<i>96.9</i>	<i>40-150</i>			

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			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0271</i>		"	<i>0.0333</i>		<i>81.2</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0301</i>		"	<i>0.0333</i>		<i>90.3</i>	<i>40-150</i>			

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

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

Batch BFK0050 - EPA 5030 Soil MS

Matrix Spike (BFK0050-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 (BFK0050-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

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

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

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	Source		%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch BFK0066 - General Preparation

Duplicate (BFK0066-DUP1)

Source: 2210585-01

Prepared & Analyzed: 11/02/22

% Solids	97.8		%		97.5			0.331		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: [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	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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

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

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

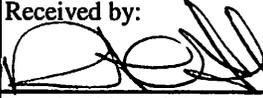
741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client: Civitas / Tasman
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@tasman-gco.com, j.evans@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 ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	BTEX	Naph	TMDBs	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: 	Date/Time: 11.2.22 16:18	Received by: <u>Tasman Lockbox</u>	Date/Time: 11.2.22 16:18	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>Tasman Lockbox</u>	Date/Time: 11.2.22 17:37	Received by: 	Date/Time: 11.2.22 17:37		
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:		

S₂

Sample Receipt Checklist

S2 Work Order# 2211041

Client: Civitas/Tasman Client Project ID: Culver MC 5-17 Tank/Battery

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

Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ 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? ⁽¹⁾	<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"/>	Sameday
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , 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? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<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)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ 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):

⁽¹⁾ 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	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.011	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	0.43	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1300	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
C10-C28 (DRO)	480	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	"	
Benzo (a) pyrene	0.0240	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.0570	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0377	0.00500	"	"	"	"	"	"	
Fluorene	0.588	0.100	"	20	"	"	11/05/22	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	1	"	"	11/04/22	"	
Pyrene	0.0339	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	2.60	0.100	"	20	"	"	11/05/22	"	
2-Methylnaphthalene	5.62	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
Lead	8.29	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	"	"	"	"	"	"	
Ethylbenzene	0.17	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	7.5	0.38	"	100	"	"	"	"	
Gasoline Range Hydrocarbons	7600	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
C10-C28 (DRO)	1500	50	mg/kg	1	BFK0078	11/02/22	11/02/22	EPA 8015M	
C28-C36 (ORO)	110	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	"	"	"	"	"	"	
Chrysene	0.212	0.0500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0500	"	"	"	"	"	"	
Fluoranthene	ND	0.0500	"	"	"	"	"	"	
Fluorene	0.932	0.0500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0500	"	"	"	"	"	"	
Pyrene	0.0798	0.0500	"	"	"	"	"	"	
1-Methylnaphthalene	10.6	1.25	"	250	"	"	11/05/22	"	
2-Methylnaphthalene	25.7	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
Lead	4.17	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

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

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	2.85	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

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

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

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/02/22 11:31**

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 11:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 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 11:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		86.9 %	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 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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.46			pH Units	1	BFK0075	11/02/22	11/02/22	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:
11/08/22 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

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

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

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

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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.94			pH Units	1	BFK0075	11/02/22	11/02/22	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:
11/08/22 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	3.3	0.38	"	100	"	"	"	"	
Gasoline Range Hydrocarbons	2300	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)	1900	50	mg/kg	1	BFK0078	11/02/22	11/02/22	EPA 8015M	
C28-C36 (ORO)	150	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

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

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	"	"	"	"	"	"	
Chrysene	0.0342	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0139	0.00500	"	"	"	"	"	"	
Fluorene	0.0919	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.0112	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	3.76	0.0500	"	10	"	"	"	"	E
2-Methylnaphthalene	6.16	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
Lead	3.68	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

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

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	0.76	0.38	"	100	"	"	"	"	
Gasoline Range Hydrocarbons	1100	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)	270	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

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

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	"	"	"	"	"	"	
Chrysene	0.0455	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0933	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.0130	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	11.8	0.0500	"	10	"	"	"	"	E
2-Methylnaphthalene	19.8	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
Lead	8.25	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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.84			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

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0379		"	0.0400		94.6	50-150			
<i>Surrogate: Toluene-d8</i>	0.0389		"	0.0400		97.2	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	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			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0385		"	0.0400		96.2	50-150			
<i>Surrogate: Toluene-d8</i>	0.0412		"	0.0400		103	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	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			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0435		"	0.0400		109	50-150			
<i>Surrogate: Toluene-d8</i>	0.0400		"	0.0400		100	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	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	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

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				

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

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

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: <i>o</i> -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	26.7	83.4	70-130			
Surrogate: <i>o</i> -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: <i>o</i> -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: <i>o</i> -Terphenyl	12.4		"	12.5		99.4	30-150			

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

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			

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

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

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			

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

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

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

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 - Quality Control

Summit Scientific

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

Batch BFK0096 - General Preparation

Duplicate (BFK0096-DUP1)

Source: 2211031-01

Prepared & Analyzed: 11/03/22

% Solids	86.8		%		86.8			0.107		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: [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	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BFK0075 - General Preparation

LCS (BFK0075-BS1)

Prepared & Analyzed: 11/02/22

pH	9.00	pH Units	9.18	98.0	95-105
----	------	----------	------	------	--------

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

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

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

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.

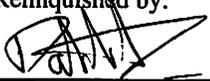
Summit Scientific

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

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:							* Sat. Paste	
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	BTEX	Naph	TMBs	TPH	PAHs		Lead
SS24@11'	11.3.22	9:25	2			X			X			X	X	X	X	X	X	
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) 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>Tasman Lockbox</u>	Date/Time: 11.3.22 17:13	Received by: 	Date/Time: 11.3.22 17:13		
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:		

S₂

Sample Receipt Checklist

S2 Work Order# 2211070Client: Civitas/Tasman Client Project ID: Culver Mc S-17 Tank Battery

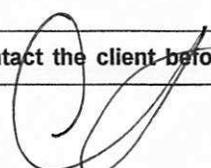
Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other _____ Airbill #: _____

	-			
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Matrix (Check all that apply) Air Soil/Solid Water Other Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6 °C ⁽¹⁾ ? NOTE: 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 ⁽¹⁾ ?	-			
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 ²⁺), Hexavalent Chromium (Cr ⁶⁺ , 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 ⁽¹⁾ ?	-			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	-			
Were all samples received intact ⁽¹⁾ ?	-			
Was adequate sample volume provided ⁽¹⁾ ?	-			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	-			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	-			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			-	-
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.			-	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			-	
If dissolved metals are requested, were samples field filtered?			-	

Additional Comments (if any):

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

Custodian Printed Name11-3-22

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:
11/08/22 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

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 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

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 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

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 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	5.50	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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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 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

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 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	0.94	0.38	"	100	"	"	"	"	
Gasoline Range Hydrocarbons	1800	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)	540	50	mg/kg	1	BFK0116	11/03/22	11/04/22	EPA 8015M	
C28-C36 (ORO)	68	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

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 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	"	"	"	"	"	"	
Benzo (a) anthracene	0.0246	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.0154	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0246	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.00744	0.00500	"	"	"	"	"	"	
Chrysene	0.0712	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0816	0.00500	"	"	"	"	"	"	
Fluorene	0.103	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.0957	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	2.53	0.250	"	50	"	"	11/07/22	"	
2-Methylnaphthalene	6.75	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
Lead	3.44	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
% Solids	81.8		%	1	BFK0133	11/04/22	11/05/22	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:
 11/08/22 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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.13		pH Units	1	BFK0114	11/03/22	11/03/22	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:
11/08/22 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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
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	0.16	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	5900	50		"	100	"	"	"	"	

Date Sampled: **11/03/22 11:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	1800	50		mg/kg	1	BFK0116	11/03/22	11/04/22	EPA 8015M	
C28-C36 (ORO)	190	50		"	"	"	"	"	"	

Date Sampled: **11/03/22 11:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
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	"	"	"	"	"	"	"
Chrysene	0.0263	0.00500	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Fluorene	0.0453	0.00500	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	"
Pyrene	0.00845	0.00500	"	"	"	"	"	"	"
1-Methylnaphthalene	1.30	0.100	"	20	"	"	11/07/22	"	"
2-Methylnaphthalene	3.62	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
Lead	1.77	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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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	7.99	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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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 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	

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

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	0.52	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	2100	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)	1000	50	mg/kg	1	BFK0116	11/03/22	11/04/22	EPA 8015M	
C28-C36 (ORO)	78	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	
Anthracene	0.0966	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0935	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.0480	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0602	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.0246	0.00500	"	"	"	"	"	"	
Chrysene	0.104	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.556	0.0500	"	10	"	"	11/07/22	"	
Fluorene	0.108	0.00500	"	1	"	"	11/05/22	"	
Indeno (1,2,3-cd) pyrene	0.0115	0.00500	"	"	"	"	"	"	
Pyrene	0.324	0.0500	"	10	"	"	11/07/22	"	
1-Methylnaphthalene	0.562	0.0500	"	"	"	"	"	"	
2-Methylnaphthalene	1.16	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
Lead	4.25	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
% Solids	84.2		%	1	BFK0133	11/04/22	11/05/22	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:
 11/08/22 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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.05		pH Units	1	BFK0114	11/03/22	11/03/22	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:
11/08/22 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	0.077	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	2500	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)	820	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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
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	0.0114	0.00500		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Chrysene	0.0478	0.00500		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500		"	"	"	"	"	"	
Fluoranthene	ND	0.00500		"	"	"	"	"	"	
Fluorene	0.0849	0.00500		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500		"	"	"	"	"	"	
Pyrene	0.0191	0.00500		"	"	"	"	"	"	
1-Methylnaphthalene	0.676	0.0500		"	10	"	"	11/07/22	"	
2-Methylnaphthalene	1.47	0.0500		"	"	"	"	"	"	

Date Sampled: **11/03/22 13:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Lead	2.14	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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

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	0.047	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	3700	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)	810	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

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

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	"	"	"	"	"	"	
Benzo (a) anthracene	0.0997	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.0573	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0867	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.0330	0.00500	"	"	"	"	"	"	
Chrysene	0.139	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.704	0.100	"	20	"	"	11/07/22	"	
Fluorene	ND	0.00500	"	1	"	"	11/05/22	"	
Indeno (1,2,3-cd) pyrene	0.0143	0.00500	"	"	"	"	"	"	
Pyrene	0.461	0.100	"	20	"	"	11/07/22	"	
1-Methylnaphthalene	1.29	0.100	"	"	"	"	"	"	
2-Methylnaphthalene	2.84	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
Lead	2.22	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
% Solids	82.9		%	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

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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.56		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

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

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				

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

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0493</i>		<i>"</i>	<i>0.0400</i>		<i>123</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0411</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0407</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>50-150</i>			

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

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -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: [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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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			

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

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 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			

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 14:46

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

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

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 - Quality Control

Summit Scientific

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

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	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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

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 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

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

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@tasmangeo.com, jevans@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 ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	BTEX	Naph	TMS _s	TPH	PAH _s			Lead	pH*						
SS32@10'	11.7.22	8:42	2			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>	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>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>	Sample Integrity: Temperature Upon Receipt: <u>11.9</u>	
Relinquished by: _____ Date/Time: _____	Received in Lab by: _____ Date/Time: _____	Intact: Yes <input type="checkbox"/> No <input type="checkbox"/>	

S₂

Sample Receipt Checklist

S2 Work Order# 2211102

Client: ConTas/Asman Client Project ID: Culver Me S-17 TB

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

-

Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6 °C ⁽¹⁾ ? NOTE: 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 ⁽¹⁾ ?	-			
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 ²⁺), Hexavalent Chromium (Cr ⁶⁺ , 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 ⁽¹⁾ ?	-			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	-			
Were all samples received intact ⁽¹⁾ ?	-			
Was adequate sample volume provided ⁽¹⁾ ?	-			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	-			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	-			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			-	-
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.			-	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			-	
If dissolved metals are requested, were samples field filtered?			-	

Additional Comments (if any):

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

[Signature]
Custodian Printed Name

11.7.22
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:
11/09/22 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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		102 %	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:
11/09/22 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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Acenaphthene	ND	0.00500	mg/kg	1	BFK0200	11/08/22	11/09/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	"
Benzo (a) anthracene	0.0214	0.00500	"	"	"	"	"	"	"
Benzo (a) pyrene	0.00828	0.00500	"	"	"	"	"	"	"
Benzo (b) fluoranthene	0.0112	0.00500	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Chrysene	0.0273	0.00500	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	"
Fluoranthene	0.0747	0.00500	"	"	"	"	"	"	"
Fluorene	0.0472	0.00500	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	"
Pyrene	0.0762	0.00500	"	"	"	"	"	"	"
1-Methylnaphthalene	0.177	0.00500	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	"

Date Sampled: **11/07/22 08:42**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Lead	7.12	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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

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 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	210	50	"	100	"	"	"	"	

Date Sampled: **11/07/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	260	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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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	"	"	"	"	"	"	
Chrysene	0.0396	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0499	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.0143	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
Lead	2.83	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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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:
 11/09/22 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
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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

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:
11/09/22 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

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:
11/09/22 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

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:
 11/09/22 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

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:
11/09/22 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 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	62	0.50	"	"	"	"	"	"	

Date Sampled: **11/07/22 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	130	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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		101 %	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:
11/09/22 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	"	"	"	"	"	"	
Chrysene	0.00733	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0508	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.327	0.0100	"	2	"	"	11/09/22	"	
2-Methylnaphthalene	0.176	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
Lead	9.87	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

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:
 11/09/22 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

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:
11/09/22 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 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 11:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 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 11:17**

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:
11/09/22 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	6.54	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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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

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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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	6.13	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

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:
 11/09/22 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

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:
11/09/22 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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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	10.9	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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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

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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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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/07/22 15:03**

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	4.1	0.50	"	"	"	"	"	"	

Date Sampled: **11/07/22 15:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		87.1 %	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

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	"	"	"	"	"	"	
Chrysene	0.0127	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.00656	0.00500	"	"	"	"	"	"	
Fluorene	0.0472	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
Lead	4.13	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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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

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	

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

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

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			

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

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0371</i>		<i>"</i>	<i>0.0400</i>		<i>92.7</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0469</i>		<i>"</i>	<i>0.0400</i>		<i>117</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0396</i>		<i>"</i>	<i>0.0400</i>		<i>98.9</i>	<i>50-150</i>			

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

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: <i>o</i> -Terphenyl	11.6		"	12.5		93.2	30-150			

LCS (BFK0187-BS1)

Prepared & Analyzed: 11/07/22

C10-C28 (DRO)	368	50	mg/kg	500		73.6	70-130			
Surrogate: <i>o</i> -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: <i>o</i> -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: <i>o</i> -Terphenyl	12.7		"	12.5		102	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:
11/09/22 16:03

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 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	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0306</i>		"	<i>0.0333</i>		<i>91.9</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0353</i>		"	<i>0.0333</i>		<i>106</i>	<i>40-150</i>			

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			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0247</i>		"	<i>0.0333</i>		<i>74.2</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0301</i>		"	<i>0.0333</i>		<i>90.3</i>	<i>40-150</i>			

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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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BFK0200 - EPA 5030 Soil MS

Matrix Spike (BFK0200-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 (BFK0200-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			

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:
11/09/22 16:03

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

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

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:
 11/09/22 16:03

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

Summit Scientific

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

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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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:
11/09/22 16:03

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

Summit Scientific

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

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

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:
11/09/22 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

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.

2211134

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 Vogt, Jacob Evans
E-Mail: svogt@tasman-gco.com, jevans@civiresources.com
Project Name: Calver mc 5-17 TB
Project Number: AFE # 22071

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analyze For:							* Sat. Paste		
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	BTEX	Naph	TMSs	TPH	PAH	Lead		pH*	
SS40@8.5'	11.8.22	9:20	2			X			X				X	X	X	X	X	X	X	
SS41@11'	↓	9:35	↓			↓			↓				↓	↓	↓	↓	↓	↓	↓	
SS42@8.5'	↓	9:42	↓			↓			↓				↓	↓	↓	↓	↓	↓	↓	
SS43@11'	↓	12:10	↓			↓			↓				↓	↓	↓	↓	↓	↓	↓	
SS44@8.5'	↓	12:15	↓			↓			↓				↓	↓	↓	↓	↓	↓	↓	

Relinquished by: <u>[Signature]</u>	Date/Time: <u>11.8.22 14:41</u>	Received by: <u>Tasman Lockbox</u>	Date/Time: <u>11.8.22 14:41</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>Tasman Lockbox</u>	Date/Time: <u>11.8.22 17:14</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11.8.22 17:14</u>		
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:		

S₂

Sample Receipt Checklist

S2 Work Order# 921134

Client: CinTas/Trasman Client Project ID: Culver Mc 5-17TB

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

-

Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6 °C ⁽¹⁾ ? NOTE: 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 ⁽¹⁾ ?	-			
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 ²⁺), Hexavalent Chromium (Cr ⁶⁺ , 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 ⁽¹⁾ ?	-			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	-			
Were all samples received intact ⁽¹⁾ ?	-			
Was adequate sample volume provided ⁽¹⁾ ?	-			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	-			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	-			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			-	-
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.			-	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			-	
If dissolved metals are requested, were samples field filtered?			✓	

Additional Comments (if any):

⁽¹⁾ 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		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 09:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
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		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 09:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		91.7 %		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: 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

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: 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	0.056	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	13	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)	94	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	5.82	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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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: 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

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: 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 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 09:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 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 09:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
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	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.6	0.50	"	"	"	"	"	"	

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	

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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	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0400</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0386</i>		<i>"</i>	<i>0.0400</i>		<i>96.5</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0447</i>		<i>"</i>	<i>0.0400</i>		<i>112</i>	<i>50-150</i>			

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			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0396</i>		<i>"</i>	<i>0.0400</i>		<i>98.9</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0394</i>		<i>"</i>	<i>0.0400</i>		<i>98.6</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0401</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>	<i>50-150</i>			

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			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0398</i>		<i>"</i>	<i>0.0400</i>		<i>99.4</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0384</i>		<i>"</i>	<i>0.0400</i>		<i>95.9</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0399</i>		<i>"</i>	<i>0.0400</i>		<i>99.8</i>	<i>50-150</i>			

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

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				

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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

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -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

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

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	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0234</i>		"	<i>0.0333</i>		<i>70.2</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0338</i>		"	<i>0.0333</i>		<i>101</i>		<i>40-150</i>		

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		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0246</i>		"	<i>0.0333</i>		<i>73.8</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0290</i>		"	<i>0.0333</i>		<i>86.9</i>		<i>40-150</i>		

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	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BFK0226 - EPA 5030 Soil MS

Matrix Spike (BFK0226-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				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0214</i>		<i>"</i>	<i>0.0333</i>		<i>64.3</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0218</i>		<i>"</i>	<i>0.0333</i>		<i>65.3</i>	<i>40-150</i>				

Matrix Spike Dup (BFK0226-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		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0209</i>		<i>"</i>	<i>0.0333</i>		<i>62.8</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0196</i>		<i>"</i>	<i>0.0333</i>		<i>58.8</i>	<i>40-150</i>				

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

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	Source		%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

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	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BFK0222 - General Preparation

LCS (BFK0222-BS1)

Prepared & Analyzed: 11/08/22

pH 9.02 pH Units 9.18 98.3 95-105

Duplicate (BFK0222-DUP1)

Source: 2211134-01

Prepared & Analyzed: 11/08/22

pH 7.84 pH Units 7.82 0.255 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

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

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

Client: CIVITAS/Tasman
 Address: 6855 W. ~~120th~~ 119th Ave
 City/State/Zip: Broomfield, CO 80020
 Phone: Sam Vogt: 610-405-9078 Fax:
 Sampler Name: DH

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		Air - Canister Serial #	Other (Specify)	Analyze For:							* Sat. Paste
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil			BTEX	Naph	TMDs	TPH	PAH	Lead	plu*	
SS45@11'	11.9.22	10:28	2			X			X			X	X	X	X	X	X	X	
SS46@8.5'	↓	10:30	↓			↓						↓	↓	↓	↓	↓	↓	↓	
SS47@11'	↓	14:50	↓			↓						↓	↓	↓	↓	↓	↓	↓	
SS48@8.5'	↓	15:01	↓			↓						↓	↓	↓	↓	↓	↓	↓	

Relinquished by: 	Date/Time: 11.9.22 16:36	Received by: Tasman Lockbox	Date/Time: 11.9.22 16:36	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"/> Sample Integrity: Temperature Upon Receipt: 7.4 Intact: Yes <input type="checkbox"/> No <input type="checkbox"/>	Notes:
Relinquished by: Tasman Lockbox	Date/Time: 11.9.22 17:15	Received by: 	Date/Time: 11.9.22 17:15		
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:		

S₂

Sample Receipt Checklist

S2 Work Order# 2211160

Client: Quitas Hasman Client Project ID: Culver MC S-17 TB

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

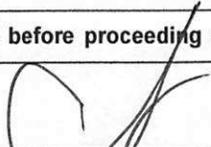
Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ 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? ⁽¹⁾	<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"/>	Sameday
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , 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? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<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) ? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ 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):

⁽¹⁾ 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 14:04

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	"	"	"	"	"	"	
Naphthalene	0.13	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	200	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
C10-C28 (DRO)	550	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	"	"	"	"	"	"	
Chrysene	0.00972	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0560	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.701	0.0500	"	10	"	"	11/11/22	"	
2-Methylnaphthalene	1.26	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
Lead	8.04	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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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

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	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	2.5	0.50	"	"	"	"	"	"	

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	8.35	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

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 14:04

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	0.099	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	280	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)	270	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	"	"	"	"	"	"	"
Chrysene	0.0150	0.00500	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Fluorene	0.0699	0.00500	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	"
Pyrene	ND	0.00500	"	"	"	"	"	"	"
1-Methylnaphthalene	0.637	0.0500	"	10	"	"	11/11/22	"	"
2-Methylnaphthalene	1.07	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
Lead	8.68	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 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	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.81	0.50	"	"	"	"	"	"	

Date Sampled: **11/09/22 15:01**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 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 15:01**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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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

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

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	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0262		"	0.0400		65.6	50-150				
<i>Surrogate: Toluene-d8</i>	0.0431		"	0.0400		108	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	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				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0280		"	0.0400		70.1	50-150				
<i>Surrogate: Toluene-d8</i>	0.0425		"	0.0400		106	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	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				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0355		"	0.0400		88.6	50-150				
<i>Surrogate: Toluene-d8</i>	0.0439		"	0.0400		110	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	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	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD		

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

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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -Terphenyl	10.8		"	12.5		86.6	30-150				

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 14:04

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 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	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0310</i>		<i>"</i>	<i>0.0333</i>		<i>93.1</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0324</i>		<i>"</i>	<i>0.0333</i>		<i>97.1</i>		<i>40-150</i>		

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		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0302</i>		<i>"</i>	<i>0.0333</i>		<i>90.6</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0317</i>		<i>"</i>	<i>0.0333</i>		<i>95.0</i>		<i>40-150</i>		

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	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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

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

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 14:04

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

Summit Scientific

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

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	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BFK0257 - General Preparation

LCS (BFK0257-BS1)

Prepared & Analyzed: 11/09/22

pH 9.00 pH Units 9.18 98.0 95-105

Duplicate (BFK0257-DUP1)

Source: 2211160-01

Prepared & Analyzed: 11/09/22

pH 7.00 pH Units 7.05 0.712 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

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.

Summit Scientific

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Client: Civitas / Tasman Geosciences

Project Manager: Sam Vogt, Jacob Evans

Address: 6855 W. 119th Ave.

E-Mail: svogt@tasman-geo.com, j.evans@civiresources.com

City/State/Zip: Broomfield / CO/ 80020

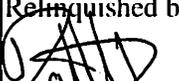
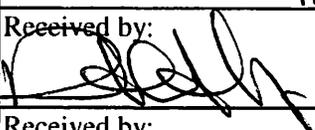
Phone: ~~303-405-4028~~ PH 610-405-9078

Project Name: Culver MC S-17TB

Sampler Name: DM

Project Number: ~~22071~~ AFE#: 22071

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX	Naphthalene	1,2,4-TMB	1,3,5-TMB	TDS	Chloride		Sulfate
1	GW01	11.9.22	9:02	4	X				X					X	X	X	X	X	X	
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Relinquished by: 	Date/Time: 11.9.22	Received by: Tasman's Lock Box	Date/Time: 11.9.22	Turn Around Time (Check) <input checked="" type="checkbox"/> Same Day 72 hours <input type="checkbox"/> 24 hours Standard <input type="checkbox"/> 48 hours Sample Integrity: " Temperature Upon Receipt: <u>7.4</u> Samples Intact: <input checked="" type="checkbox"/> Yes No	Notes:
Relinquished by: Tasman's Lock Box	Date/Time: 11.9.22	Received by: 	Date/Time: 11.9.22		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

S₂

Sample Receipt Checklist

S2 Work Order# 221162

Client: Civitas/Tasman Client Project ID: Culver MCS-17TB

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other [] Airbill #: []

[] - [] [] []

Matrix (Check all that apply) Air [] Soil/Solid [] Water [x] Other []

Temp (°C) 74 Thermometer # 1

Table with 5 columns: Yes, No, N/A, Comments (if any). Rows include: If samples require cooling, is the temperature < 6°C? (1) (Yes: -), If custody seals are present, are they intact? (1) (Yes: -), Are samples due within 48 hours present? (Yes: -, Comment: Sameday), Are water samples with short hold times present? (N/A: -), Is a chain-of-custody (COC) form present and filled out Completely? (1) (Yes: -), Is the COC properly relinquished by the client w/ date and time recorded? (1) (No: -), Were all samples received intact? (1) (Yes: -), Was adequate sample volume provided? (1) (Yes: -), Does the COC agree with the number and type of sample bottles received? (1) (Yes: -), Do the sample IDs on the bottle labels match the COC? (1) (Yes: -), For volatiles in water - is there headspace present? If yes, contact client and note in narrative. (No: -), Are samples preserved that require preservation (excluding cooling)? (1) Note the type of preservative in the comments column - HCl, H2SO4, NaOH, HNO3, etc. (Yes: -, Comment: HCl), If samples are acid preserved for metals, is the pH <= 2? (1) Record the pH in Comments. (N/A: -), If dissolved metals are requested, were samples field filtered? (N/A: -)

Additional Comments (if any):

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

Custodian Printed Name

Date/Time

[Signature]

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 14:28

GW01
2211162-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/09/22 09:02**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	7640	10.0		mg/L	1	BFK0304	11/11/22	11/11/22	SM2540C	

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

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

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	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	14.3		"	13.3		107		23-173			
<i>Surrogate: Toluene-d8</i>	14.1		"	13.3		106		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	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			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	14.5		"	13.3		109		23-173			
<i>Surrogate: Toluene-d8</i>	14.5		"	13.3		109		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	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			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	14.5		"	13.3		109		23-173			
<i>Surrogate: Toluene-d8</i>	14.4		"	13.3		108		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	14.3		"	13.3		107		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

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

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

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		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

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

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.

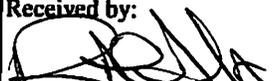
Summit Scientific

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

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 MCS-17TB
Project Number: AFE#: 22071

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix		Air - Canister Serial #	Other (Specify)	Analyze For:							Special Instructions
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil			BTEX	Naph	TMBs	TPH	PAH	Lead	pH*	
SS49@11'	11/10/22	1458	2			X													X Sat paste
SS50@8.5'		1503																	
SS51@12'		1515																	
SS52@8.5'		1522																	

Relinquished by: 	Date/Time: 11/10/22 16:20	Received by: Tasma Lockbox	Date/Time: 11/10/22 16:20	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: Tasma 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:		

S₂

Sample Receipt Checklist

S2 Work Order# 22/1202

Client: Civitas/Asman Client Project ID: Calver MC S-17 TB

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

-

Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ 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? ⁽¹⁾	<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 ²⁺), Hexavalent Chromium (Cr ⁶⁺ , 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? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<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)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ 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):

⁽¹⁾ 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		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 14:58**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
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		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 14:58**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		85.2 %		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 Tank Battery

Project Number: 22071
Project Manager: Sam Vogt

Reported:
11/14/22 16:49

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	5.88	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

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

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

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

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 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 15:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 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 15:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		90.3 %	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: 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	8.00	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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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

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	

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

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

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

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	8.70	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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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

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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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

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	8.34	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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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

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	

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

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0378		"	0.0400		94.6	50-150			
<i>Surrogate: Toluene-d8</i>	0.0432		"	0.0400		108	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	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			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0375		"	0.0400		93.7	50-150			
<i>Surrogate: Toluene-d8</i>	0.0436		"	0.0400		109	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	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			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0392		"	0.0400		98.1	50-150			
<i>Surrogate: Toluene-d8</i>	0.0431		"	0.0400		108	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0431		"	0.0400		108	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: 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	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD		

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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0389</i>		<i>"</i>	<i>0.0400</i>		<i>97.2</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0430</i>		<i>"</i>	<i>0.0400</i>		<i>107</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0434</i>		<i>"</i>	<i>0.0400</i>		<i>108</i>	<i>50-150</i>			

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

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -Terphenyl	12.2		"	12.5		97.6	30-150				

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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

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

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	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0225</i>		"	<i>0.0333</i>		<i>67.6</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0343</i>		"	<i>0.0333</i>		<i>103</i>	<i>40-150</i>			

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			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0247</i>		"	<i>0.0333</i>		<i>74.0</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0314</i>		"	<i>0.0333</i>		<i>94.3</i>	<i>40-150</i>			

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

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 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				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0198</i>		<i>"</i>	<i>0.0333</i>		<i>59.3</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0226</i>		<i>"</i>	<i>0.0333</i>		<i>67.7</i>	<i>40-150</i>				

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		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0165</i>		<i>"</i>	<i>0.0333</i>		<i>49.4</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0201</i>		<i>"</i>	<i>0.0333</i>		<i>60.3</i>	<i>40-150</i>				

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

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

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

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

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

Summit Scientific

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

Batch BFK0312 - General Preparation

Duplicate (BFK0312-DUP1)		Source: 221126-08		Prepared & Analyzed: 11/11/22							
% Solids	94.2		%		94.6				0.358	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: 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	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%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
----	------	----------	------	-----	--------

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

SITE NAME / API #: Culver MC 5-17 TB					DATE: 10/27/2022	WEATHER: 35 (F) Snow																																												
ACCOUNTING CODES:			LOCATION ID:		LAT/LONG: 40.052558, -105.138004																																													
SITE DIRECTIONS: 95TH & ISABELLE, N 3/4, W 1/2 INTO 1/2 INTO BOULDER COUNTY, COLO					# OF WATER WELLS WITHIN 1/2 MILE:																																													
LEGALS					DIST./DIR. TO NEAREST WATER WELL (ft.):																																													
SOIL TYPES: Clayey Sand					ESTIMATED DEPTH TO GROUNDWATER: 6																																													
LAND USE:					SURFACE WATER:																																													
LIVESTOCK PRESENT: No			OCCUPIED BUILDING:		CLIENT PERSONNEL: Justin Kieth																																													
Time	Soil Sample ID	PID ppm	Stain?	Odor?	Lab?	TASMAN PERSONNEL: Dalton Hagen																																												
09:45	SS01@10'	0.1	Yes	Yes	Yes	WHAT SPILLED:																																												
10:00	SS02@7'	402.2	Yes	Yes	Yes	AMOUNT SPILLED:																																												
10:37	SS03@10'	1345	Yes	Yes	Yes	CAUSE OF SPILL:																																												
11:26	SS04@10'	766.2	Yes	Yes	Yes																																													
						HOW WAS IT FOUND:																																												
						HOW WAS IT STOPPED/CONTAINED:																																												
						HOW WAS IT RECOVERED:																																												
						Soil Disposal Facility: <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> </tbody> </table>	Soil Trucks In		Soil Trucks Out		Company	#	Company	#																																				
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Company	#	Company	#																																															
						Measured Daily Yards Removed:																																												
						GW Disposal Facility:																																												
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						BBLS Out																																												

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#



EXCAVATION FIELD FORM

SITE NAME / API #: Culver MC 5-17 TB					DATE: 10/31/2022	WEATHER: 36(F) Sunny																																												
ACCOUNTING CODES:			LOCATION ID:	LAT/LONG: 40.052558, -105.138004																																														
SITE DIRECTIONS: 95TH & ISABELLE, N 3/4, W 1/2 INTO 1/2 INTO BOULDER COUNTY, COLO					# OF WATER WELLS WITHIN 1/2 MILE:																																													
LEGALS					DIST./DIR. TO NEAREST WATER WELL (ft.):																																													
SOIL TYPES: Clayey Sand					ESTIMATED DEPTH TO GROUNDWATER: 6																																													
LAND USE:					SURFACE WATER:																																													
LIVESTOCK PRESENT: No			OCCUPIED BUILDING:		CLIENT PERSONNEL: Justin Kieth																																													
Time	Soil Sample ID	PID ppm	Stain?	Odor?	Lab?	TASMAN PERSONNEL: Dalton Hagen																																												
10:21	SS07@10.5'	2092	Yes	Yes	Yes	WHAT SPILLED:																																												
15:11	SS08@10'	154.7	Yes	Yes	Yes	AMOUNT SPILLED:																																												
						CAUSE OF SPILL:																																												
						HOW WAS IT FOUND:																																												
						HOW WAS IT STOPPED/CONTAINED:																																												
						HOW WAS IT RECOVERED:																																												
						Soil Disposal Facility: <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> </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#



EXCAVATION FIELD FORM

SITE NAME / API #: Culver MC 5-17 TB					DATE: 11/1/2022	WEATHER: 39 (F) Sunny																																												
ACCOUNTING CODES:			LOCATION ID:		LAT/LONG: 40.052558, -105.138004																																													
SITE DIRECTIONS: 95TH & ISABELLE, N 3/4, W 1/2 INTO 1/2 INTO BOULDER COUNTY, COLO					# OF WATER WELLS WITHIN 1/2 MILE:																																													
LEGALS					DIST./DIR. TO NEAREST WATER WELL (ft.):																																													
SOIL TYPES: Clayey Sand					ESTIMATED DEPTH TO GROUNDWATER: 10																																													
LAND USE:					SURFACE WATER:																																													
LIVESTOCK PRESENT:			OCCUPIED BUILDING:		CLIENT PERSONNEL: Justin Kieth																																													
Time	Soil Sample ID	PID ppm	Stain?	Odor?	Lab?	TASMAN PERSONNEL: Dalton Hagen																																												
10:09	SS09@10'	1.1	No	Yes	Yes	WHAT SPILLED:																																												
10:38	SS10@10'	1368	Yes	Yes	Yes	AMOUNT SPILLED:																																												
11:35	SS11@10'	557.4	Yes	Yes	Yes	CAUSE OF SPILL:																																												
13:16	SS12@8.5'	13.7	Yes	Slight	Yes																																													
13:37	SS13@8.5'	49.4	Yes	No	Yes	HOW WAS IT FOUND:																																												
13:56	SS14@10'	10.0	No	Slight	Yes	HOW WAS IT STOPPED/CONTAINED:																																												
15:12	SS15@8.5'	11.7	Yes	Slight	Yes																																													
						HOW WAS IT RECOVERED:																																												
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PRODUCED WATER TANK/VAULT REMOVALS:																																																		
Soil sample with highest PID reading noted above submitted for SAR, pH, EC		SSID#																																																



EXCAVATION FIELD FORM

SITE NAME / API #: Culver MC 5-17 TB					DATE: 11/3/2022	WEATHER: 37 (F) Mostly Cloudy																																												
ACCOUNTING CODES:			LOCATION ID:		LAT/LONG: 40.052558, -105.138004																																													
SITE DIRECTIONS: 95TH & ISABELLE, N 3/4, W 1/2 INTO 1/2 INTO BOULDER COUNTY, COLO					# OF WATER WELLS WITHIN 1/2 MILE:																																													
LEGALS					DIST./DIR. TO NEAREST WATER WELL (ft.):																																													
SOIL TYPES: Clayey Sand					ESTIMATED DEPTH TO GROUNDWATER:																																													
LAND USE:					SURFACE WATER: 10																																													
LIVESTOCK PRESENT:			OCCUPIED BUILDING:		CLIENT PERSONNEL: Justin Kieth																																													
Time	Soil Sample ID	PID ppm	Stain?	Odor?	Lab?	TASMAN PERSONNEL: Dalton Hagen																																												
09:25	SS24@11'	0.0	No	No	Yes	WHAT SPILLED:																																												
10:31	SS25@8.5'	3.3	Yes	No	Yes	AMOUNT SPILLED:																																												
11:19	SS26@10'	2891	Yes	Yes	Yes	CAUSE OF SPILL:																																												
11:32	SS27@13'	2953	Yes	Yes	Yes																																													
12:21	SS28@10'	0.0	Yes	No	Yes	HOW WAS IT FOUND:																																												
12:59	SS29@10'	1206	Yes	Yes	Yes																																													
13:21	SS30@13'	2464	Yes	Yes	Yes	HOW WAS IT STOPPED/CONTAINED:																																												
13:24	SS31@10'	1942	Yes	Yes	Yes																																													
						HOW WAS IT RECOVERED:																																												
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Soil sample with highest PID reading noted above submitted for SAR, pH, EC			SSID#																																															



EXCAVATION FIELD FORM

SITE NAME / API #: Culver MC 5-17 TB					DATE: 11/7/2022	WEATHER: 33 (F) Sunny																																																
ACCOUNTING CODES:			LOCATION ID:		LAT/LONG: 40.052558, -105.138004																																																	
SITE DIRECTIONS: 95TH & ISABELLE, N 3/4, W 1/2 INTO 1/2 INTO BOULDER COUNTY, COLO					# OF WATER WELLS WITHIN 1/2 MILE:																																																	
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SOIL TYPES: Clayey Sand					ESTIMATED DEPTH TO GROUNDWATER: 10																																																	
LAND USE:					SURFACE WATER:																																																	
LIVESTOCK PRESENT:			OCCUPIED BUILDING:		CLIENT PERSONNEL: Justin Kieth																																																	
Time	Soil Sample ID	PID ppm	Stain?	Odor?	Lab?	TASMAN PERSONNEL: Dalton Hagen																																																
08:42	SS32@10'	31.4	Yes	Yes	Yes	WHAT SPILLED:																																																
10:20	SS33@10'	430.5	Yes	Yes	Yes	AMOUNT SPILLED:																																																
10:22	SS34@8.5'	2.0	Yes	No	Yes	CAUSE OF SPILL:																																																
11:10	SS35@10'	1481	No	No	Yes																																																	
11:17	SS36@8.5	0.2	Yes	No	Yes	HOW WAS IT FOUND:																																																
11:24	SS37@8.5	0.4	Yes	No	Yes																																																	
13:46	SS38@10'	12.4	Yes	No	Yes	HOW WAS IT STOPPED/CONTAINED:																																																
15:03	SS39@11'	356.3	Yes	Yes	Yes																																																	
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PRODUCED WATER TANK/VAULT REMOVALS:																																																						
Soil sample with highest PID reading noted above submitted for SAR, pH, EC		SSID#																																																				



EXCAVATION FIELD FORM

SITE NAME / API #: Culver MC 5-17 TB					DATE: 11/8/2022	WEATHER: 41 (F) Mostly Cloudy																																												
ACCOUNTING CODES:			LOCATION ID:		LAT/LONG: 40.052558, -105.138004																																													
SITE DIRECTIONS: 95TH & ISABELLE, N 3/4, W 1/2 INTO 1/2 INTO BOULDER COUNTY, COLO					# OF WATER WELLS WITHIN 1/2 MILE:																																													
LEGALS					DIST./DIR. TO NEAREST WATER WELL (ft.):																																													
SOIL TYPES: Clayey Sand					ESTIMATED DEPTH TO GROUNDWATER: 10																																													
LAND USE:					SURFACE WATER:																																													
LIVESTOCK PRESENT:			OCCUPIED BUILDING:		CLIENT PERSONNEL: Justin Kieth																																													
Time	Soil Sample ID	PID ppm	Stain?	Odor?	Lab?	TASMAN PERSONNEL: Dalton Hagen																																												
09:20	SS40@8.5'	0.7	Yes	Yes	Yes	WHAT SPILLED:																																												
09:35	SS41@11'	836.0	Yes	Yes	Yes	AMOUNT SPILLED:																																												
09:42	SS42@8.5'	2.3	Yes	No	Yes	CAUSE OF SPILL:																																												
12:10	SS43@11'	158.9	Yes	Slight	Yes																																													
12:15	SS44@8.5'	4.1	Yes	No	Yes	HOW WAS IT FOUND:																																												
						HOW WAS IT STOPPED/CONTAINED:																																												
						HOW WAS IT RECOVERED:																																												
						Soil Disposal Facility: <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> </tbody> </table>	Soil Trucks In		Soil Trucks Out		Company	#	Company	#																																				
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Company	#	Company	#																																															
						Measured Daily Yards Removed:																																												
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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#



EXCAVATION FIELD FORM

SITE NAME / API #: Culver MC 5-17 TB					DATE: 11/9/2022	WEATHER: 31 (F) Fog																																												
ACCOUNTING CODES:			LOCATION ID:		LAT/LONG: 40.052558, -105.138004																																													
SITE DIRECTIONS: 95TH & ISABELLE, N 3/4, W 1/2 INTO 1/2 INTO BOULDER COUNTY, COLO					# OF WATER WELLS WITHIN 1/2 MILE:																																													
LEGALS					DIST./DIR. TO NEAREST WATER WELL (ft.):																																													
SOIL TYPES: Clayey Sand					ESTIMATED DEPTH TO GROUNDWATER: 10																																													
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LIVESTOCK PRESENT:			OCCUPIED BUILDING:		CLIENT PERSONNEL: Justin Kieth																																													
Time	Soil Sample ID	PID ppm	Stain?	Odor?	Lab?	TASMAN PERSONNEL: Dalton Hagen																																												
10:28	SS45@11'	1571	Yes	Yes	Yes	WHAT SPILLED:																																												
10:30	SS46@8.5'	21.2	Yes	No	Yes	AMOUNT SPILLED:																																												
14:50	SS47@12'	1202	Yes	Yes	Yes	CAUSE OF SPILL:																																												
15:01	SS48@8.5'	25.1	No	No	Yes																																													
						HOW WAS IT FOUND:																																												
						HOW WAS IT STOPPED/CONTAINED:																																												
						HOW WAS IT RECOVERED:																																												
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Company	BBLs Out																																																	
GROUNDWATER:																																																		
Time	Groundwater Sample ID	Sheen?	Color	Odor?	Lab?																																													
09:02	GW01	Yes	Dark Brown	No	Yes																																													
PRODUCED WATER TANK/VAULT REMOVALS:																																																		
Soil sample with highest PID reading noted above submitted for SAR, pH, EC		SSID#																																																



EXCAVATION FIELD FORM

SITE NAME / API #: Culver MC 5-17 TB					DATE: 11/10/2022	WEATHER:																																												
ACCOUNTING CODES:			LOCATION ID:		LAT/LONG: 40.052558, -105.138004																																													
SITE DIRECTIONS: 95TH & ISABELLE, N 3/4, W 1/2 INTO 1/2 INTO BOULDER COUNTY, COLO					# OF WATER WELLS WITHIN 1/2 MILE:																																													
LEGALS					DIST./DIR. TO NEAREST WATER WELL (ft.):																																													
SOIL TYPES: Clayey Sand					ESTIMATED DEPTH TO GROUNDWATER: 11																																													
LAND USE:					SURFACE WATER:																																													
LIVESTOCK PRESENT:			OCCUPIED BUILDING:		CLIENT PERSONNEL: Justin Kieth																																													
Time	Soil Sample ID	PID ppm	Stain?	Odor?	Lab?	TASMAN PERSONNEL: Dalton Hagen																																												
14:58	SS49@11'	0.0	No	No	Yes	WHAT SPILLED:																																												
15:03	SS50@8.5'	0.0	No	No	Yes	AMOUNT SPILLED:																																												
15:15	SS51@12'	0.3	No	Slight	Yes	CAUSE OF SPILL:																																												
15:22	SS52@8.5'	0.0	No	Organic	Yes																																													
						HOW WAS IT FOUND:																																												
						HOW WAS IT STOPPED/CONTAINED:																																												
						HOW WAS IT RECOVERED:																																												
						Soil Disposal Facility: <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> </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#



Equipment ID:		Equipment Type:		Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:		Material:	Volume:	Contents:	
Notes/Conditions:				Notes/Conditions:			



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