

# **Culver 5-17 Tank Battery**

SWNE Sec. 17-T1N-R69W

Remediation Project #: 22770

Third Quarter 2023 Groundwater Monitoring

July 2023

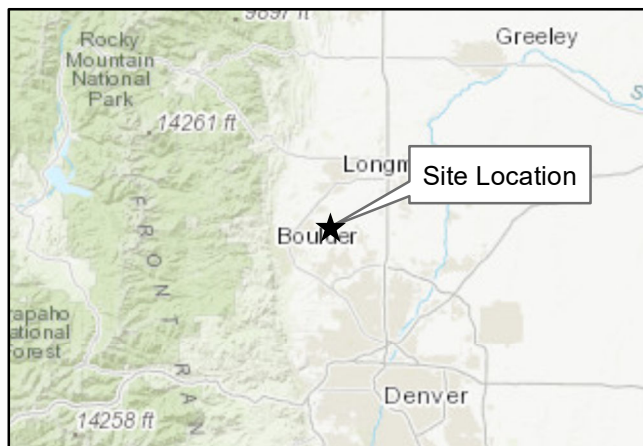
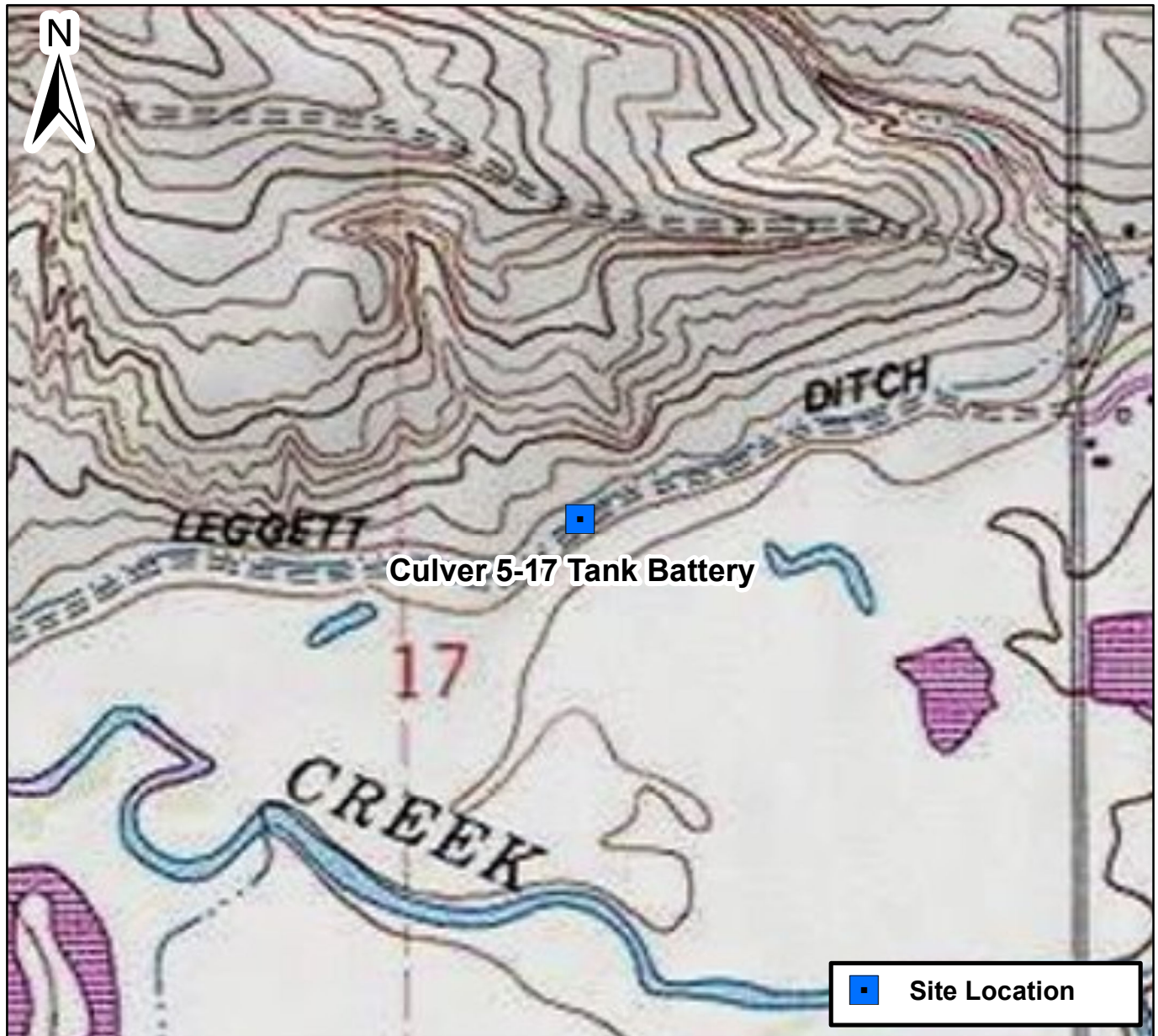
Prepared by Tasman, Inc.



On behalf of Extraction Oil & Gas, Inc.



## FIGURES



0 1,000 2,000 Feet

## Figure 1

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







DATE:	November 29, 2023
DESIGNED BY:	S. Vogt
DRAWN BY:	S. Kirylo



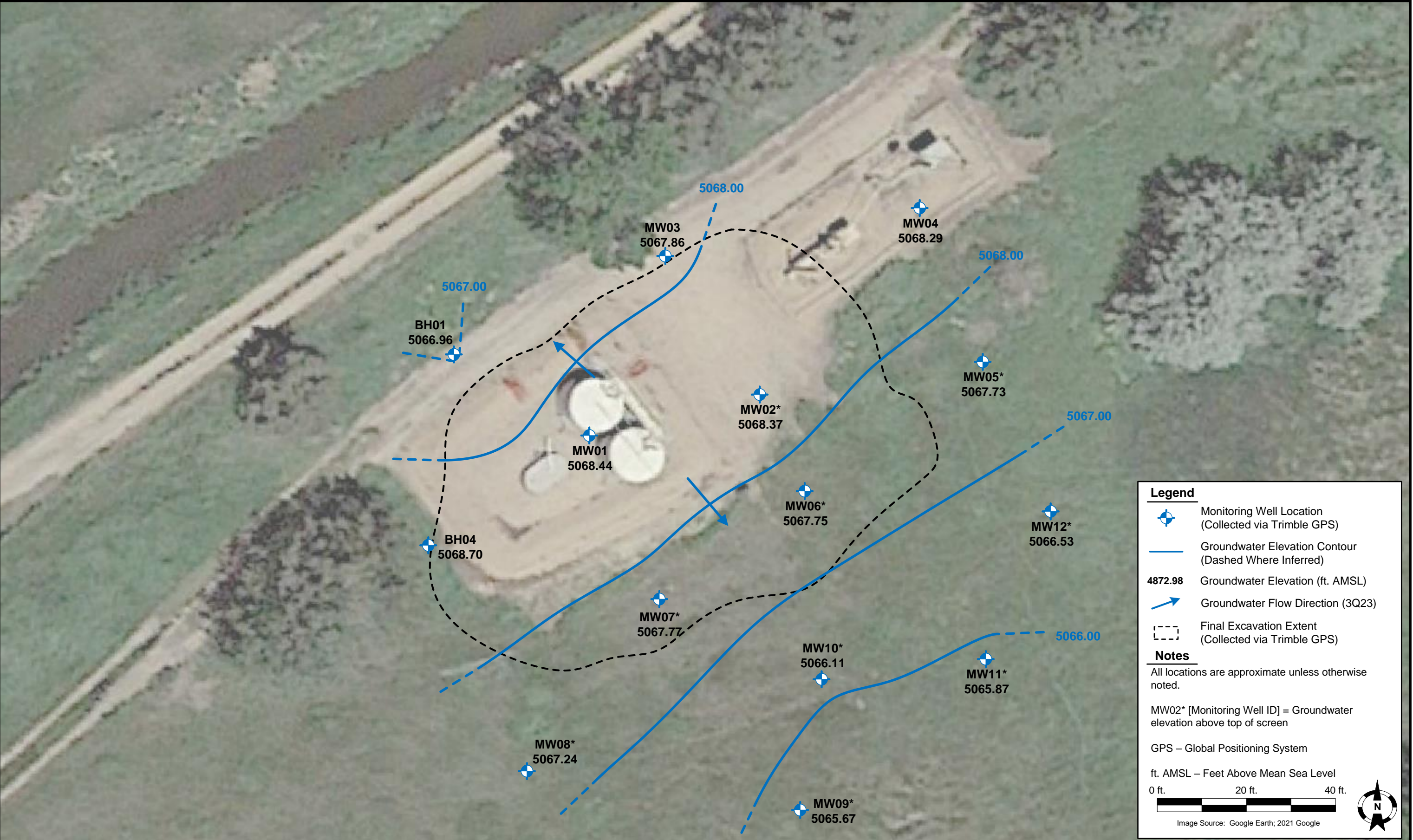
Tasman, Inc.  
6855 W119th Ave.  
Broomfield, CO 80020

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

Site Overview Map

Figure  
2





DATE:	November 2, 2023
DESIGNED BY:	S. Vogt
DRAWN BY:	L. Reed

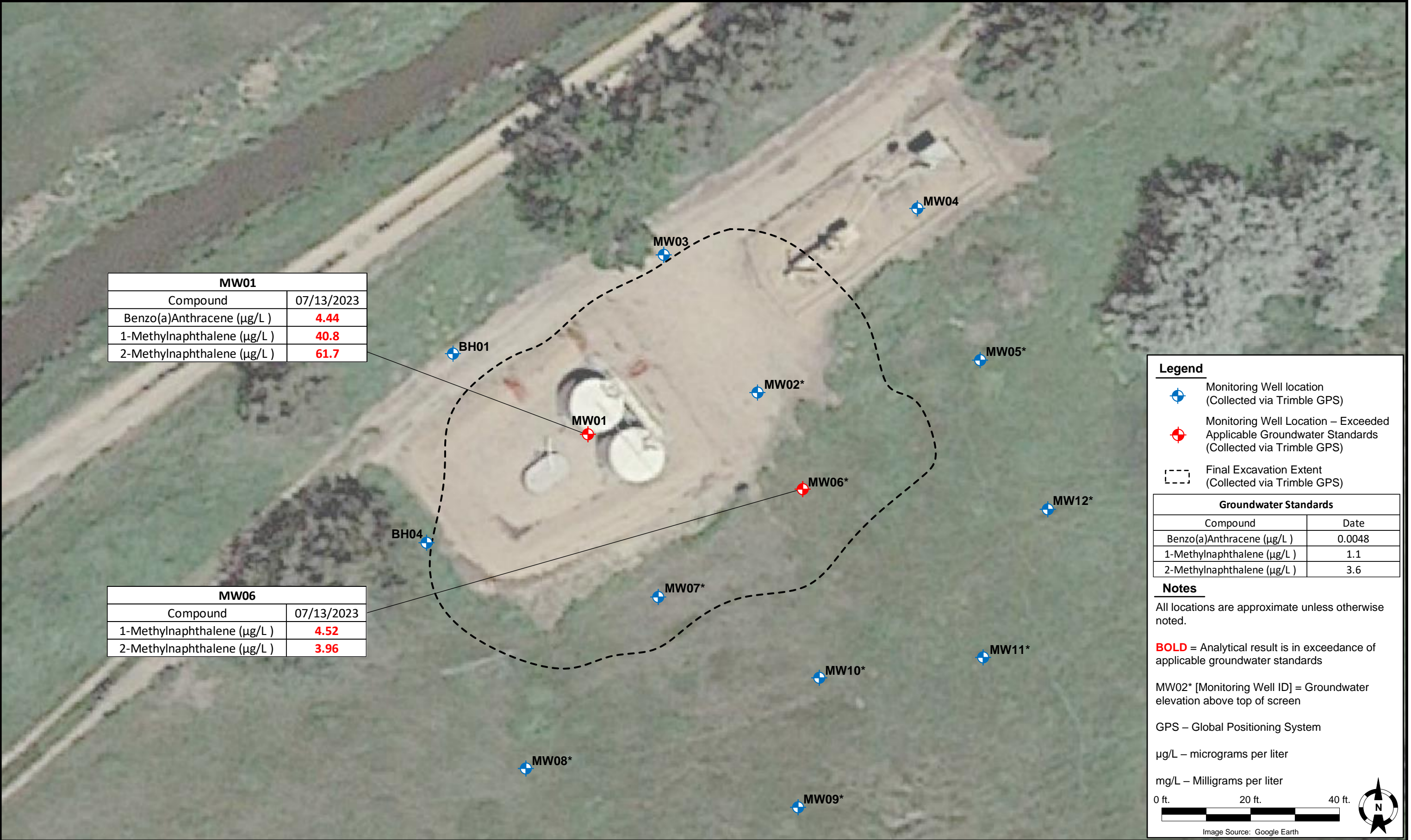


**Tasman, Inc.**  
6855 W. 119<sup>th</sup> Ave  
Broomfield, CO 80020

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

Groundwater Elevation  
Contour Map  
(07/13/2023)





## **TABLES**

### **MATERIAL LEFT IN PLACE**

**TABLE 1**  
**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)
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
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
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



**TABLE 1**  
**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)
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
MW01@13'	13'	06/26/2023	1747	40.052564	-105.137981	0.9	Y
MW01@20'	20'	06/26/2023	11.3	40.052564	-105.137981	0.9	Y
MW02@14'	14'	06/26/2023	6.8	40.052590	-105.137845	0.9	Y
MW02@19'	19'	06/26/2023	0.6	40.052590	-105.137845	0.9	Y
MW03@15'	15'	06/26/2023	20.4	40.052675	-105.137921	0.9	Y
MW03@20'	20'	06/26/2023	1.2	40.052675	-105.137921	0.9	Y
MW04@12'	12'	06/27/2023	0.4	40.052704	-105.137716	1.1	Y
MW04@15'	15'	06/27/2023	0.4	40.052704	-105.137716	1.1	Y
MW05@13'	13'	06/27/2023	-	40.052609	-105.137666	1.0	Y
MW05@15'	15'	06/27/2023	-	40.052609	-105.137666	1.0	Y
MW06@13'	13'	06/27/2023	394.5	40.052530	-105.137808	0.8	Y
MW06@17'	17'	06/27/2023	17.1	40.052530	-105.137808	0.8	Y
MW07@14'	14'	06/27/2023	8.4	40.052463	-105.137925	0.8	Y
MW07@15'	15'	06/27/2023	1.7	40.052463	-105.137925	0.8	Y
MW08@8'	8'	06/28/2023	0.0	40.052357	-105.138031	0.9	Y
MW08@15'	15'	06/28/2023	0.3	40.052357	-105.138031	0.9	Y
MW09@7'	7'	06/28/2023	0.0	40.052333	-105.137812	0.9	Y
MW09@15'	15'	06/28/2023	0.0	40.052333	-105.137812	0.9	Y
MW10@7'	7'	06/28/2023	0.3	40.052413	-105.137795	0.8	Y

**TABLE 1**  
**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)
MW10@15'	15'	06/28/2023	0.4	40.052413	-105.137795	0.8	Y
MW11@8'	8'	06/28/2023	0.1	40.052426	-105.137663	0.9	Y
MW11@15'	15'	06/28/2023	0.1	40.052426	-105.137663	0.9	Y
MW12@7'	7'	06/28/2023	0.0	40.052518	-105.137611	1.1	Y
MW12@15'	15'	06/28/2023	0.0	40.052518	-105.137611	1.1	Y
<b>BACKGROUND</b>							
BKG01@4"	4"	04/19/2022	-	40.051679	-105.139727	-	Y
BG01@6.5'	6.5'	09/09/2022	0.0	-	-	-	Y
BG02@6.5'	6.5'	09/09/2022	0.0	-	-	-	Y
BG01@6'	6'	06/28/2023	0.4	40.052627	-105.137418	-	Y
BG01@8'	8'	06/28/2023	0.3	40.052627	-105.137418	-	Y
BG01@10'	10'	06/28/2023	0.0	40.052627	-105.137418	-	Y
BG01@12'	12'	06/28/2023	0.1	40.052627	-105.137418	-	Y
BG01@14'	14'	06/28/2023	0.1	40.052627	-105.137418	-	Y
BG02@6'	6'	06/28/2023	-	40.052764	-105.137515	-	Y
BG02@8'	8'	06/28/2023	-	40.052764	-105.137515	-	Y
BG02@10'	10'	06/28/2023	-	40.052764	-105.137515	-	Y
BG02@12'	12'	06/28/2023	0.4	40.052764	-105.137515	-	Y
BG02@14'	14'	06/28/2023	0.1	40.052764	-105.137515	-	Y
BG03@6'	6'	06/28/2023	-	40.052685	-105.138085	-	Y
BG03@8'	8'	06/28/2023	0.2	40.052685	-105.138085	-	Y
BG03@10'	10'	06/28/2023	0.2	40.052685	-105.138085	-	Y
BG03@12'	12'	06/28/2023	0.4	40.052685	-105.138085	-	Y
BG03@14'	14'	06/28/2023	0.6	40.052685	-105.138085	-	Y
BG03@20'	20'	06/28/2023	0.4	40.052685	-105.138085	-	Y
BG04@6'	6'	06/28/2023	0.3	40.052333	-105.138356	-	Y
BG04@8'	8'	06/28/2023	0.1	40.052333	-105.138356	-	Y
BG04@10'	10'	06/28/2023	0.1	40.052333	-105.138356	-	Y
BG04@12'	12'	06/28/2023	-	40.052333	-105.138356	-	Y
BG04@14'	14'	06/28/2023	0.0	40.052333	-105.138356	-	Y
BG04@20'	20'	06/28/2023	0.7	40.052333	-105.138356	-	Y

**Notes:**

PID = Photoionization Detector



**TABLE 1**  
**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)
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ppm = parts per million

GPS = Global Positioning System

PDOP = Position Dilution of Precision

- = Not Applicable

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

**TABLE 2**  
**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)
ECMC Organic Compounds in Soils - GSSL <sup>(1)</sup>			0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
ECMC Organic Compounds in Soils - RSL <sup>(2)</sup>			1.2	490	5.8	58	2	500			30	27
BH01@6'	6'	09/09/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100	<0.00200	<0.00200
BH04@6.5'	6.5'	09/09/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100	<0.00200	<0.00200
SS01@10'	10'	10/27/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS03@10'	10'	10/27/2022	<0.0020	<0.0050	<0.0050	<0.010	0.12	260	190	<50	<0.0050	<0.0050
SS04@10'	10'	10/27/2022	<0.0020	<0.0050	0.0065	<0.010	0.016	730	690	66	<0.0050	<0.0050
SS05@11'	11'	10/28/2022	<0.0020	<0.0050	0.0065	<0.010	0.083	11	<50	<50	<0.0050	<0.0050
SS06@10'	10'	10/28/2022	<0.0020	<0.0050	0.0065	<0.010	1.7	610	480	<50	<0.0050	<0.0050
SS07@10.5'	10.5'	10/31/2022	<0.0020	<0.0050	0.0065	<0.010	<0.0038	1.3	<50	<50	<0.0050	<0.0050
SS08@10'	10'	10/31/2022	<0.0020	<0.0050	0.0065	<0.010	0.46	1,700	<50	<50	<0.0050	<0.0050
SS09@10'	10'	11/01/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS10@10'	10'	11/01/2022	<0.0020	<0.0050	<0.0050	<0.010	0.16	380	260	<50	<0.0050	<0.0050
SS12@8.5'	8.5'	11/01/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS13@8.5'	8.5'	11/01/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS14@10'	10'	11/01/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS16@10'	10'	11/02/2022	<0.0020	<0.0050	<0.0050	<0.010	0.43	1,300	480	<50	0.011	<0.0050
SS17@14'	14'	11/02/2022	<0.0020	<0.0050	0.17	<0.010	7.5	7,600	1,500	110	<0.0050	<0.0050
SS18@10'	10'	11/02/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS20@10'	10'	11/02/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS21@10'	10'	11/02/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS22@10.5'	10.5'	11/02/2022	<0.0020	<0.0050	<0.0050	<0.010	3.3	2,300	1,900	150	<0.0050	<0.0050
SS23@13'	13'	11/02/2022	<0.0020	<0.0050	<0.0050	<0.010	0.76	1,100	270	<50	<0.0050	<0.0050
SS24@11'	11'	11/03/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SS25@8.5'	8.5'	11/03/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050



**TABLE 2**  
**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)
ECMC Organic Compounds in Soils - GSSL <sup>(1)</sup>			0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
ECMC Organic Compounds in Soils - RSL <sup>(2)</sup>			1.2	490	5.8	58	2	500			30	27
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
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@11'	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

**TABLE 2**  
**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)
ECMC Organic Compounds in Soils - GSSL <sup>(1)</sup>			0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
ECMC Organic Compounds in Soils - RSL <sup>(2)</sup>			1.2	490	5.8	58	2	500			30	27
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
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
MW01@13'	13'	06/26/2023	0.0067	<0.0050	<0.0050	<0.010	0.0042	2,400	2,800	250	<0.0050	<0.0050
MW01@20'	20'	06/26/2023	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	1.2	29	22	<0.0050	<0.0050
MW02@14'	14'	06/26/2023	<0.0020	<0.0050	<0.0050	<0.010	0.079	530	1,300	130	<0.0050	<0.0050
MW02@19'	19'	06/26/2023	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	0.16	22	25	<0.0050	<0.0050
MW03@15'	15'	06/26/2023	<0.0020	<0.0050	<0.0050	<0.010	0.031	170	740	77	<0.0050	<0.0050
MW03@20'	20'	06/26/2023	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	0.16	16	20	<0.0050	<0.0050
MW04@12'	12'	06/27/2023	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
MW04@15'	15'	06/27/2023	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
MW05@13'	13'	06/27/2023	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
MW05@15'	15'	06/27/2023	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
MW06@13'	13'	06/27/2023	<0.0020	<0.0050	<0.0050	<0.010	0.095	1,400	480	<50	<0.0050	<0.0050
MW06@17'	17'	06/27/2023	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	8.1	<50	<50	<0.0050	<0.0050
MW07@14'	14'	06/27/2023	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
MW07@15'	15'	06/27/2023	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
MW08@8'	8'	06/28/2023	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
MW08@15'	15'	06/28/2023	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
MW09@7'	7'	06/28/2023	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
MW09@15'	15'	06/28/2023	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
MW10@7'	7'	06/28/2023	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
MW10@15'	15'	06/28/2023	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050



**TABLE 2**  
**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)
ECMC Organic Compounds in Soils - GSSL <sup>(1)</sup>			0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
ECMC Organic Compounds in Soils - RSL <sup>(2)</sup>			1.2	490	5.8	58	2	500			30	27
MW11@8'	8'	06/28/2023	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
MW11@15'	15'	06/28/2023	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
MW12@7'	7'	06/28/2023	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
MW12@15'	15'	06/28/2023	<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 ECMC 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 ECMC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations (Effective January 15, 2021)

ECMC = Colorado Energy & Carbon Management Commission

GSSL = Protection of Groundwater Screening Level

RSL = Residential Soil Screening Level

(<) = 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 ECMC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations

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

**TABLE 3**  
**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)
ECMC Organic Compounds in Soils - GSSL <sup>(1)</sup>			0.55	5.8	0.011	0.3	2.9	0.24	9	0.96	8.9	0.54	0.98	0.006	0.019	1.3
ECMC Organic Compounds in Soils - RSL <sup>(2)</sup>			360	1,800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
BH01@6'	6'	09/09/2022	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
BH04@6.5'	6.5'	09/09/2022	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS01@10'	10'	10/27/2022	<0.00500	0.0566	0.0340	0.0186	0.00744	0.0133	0.0561	<0.00500	0.157	0.0852	0.00603	0.133	<0.00500	0.153
SS03@10'	10'	10/27/2022	<0.00500	0.0321	0.0446	0.0261	0.0104	0.0203	0.0592	<0.00500	0.149	0.112	0.0105	0.0905	<0.00500	0.139
SS04@10'	10'	10/27/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS05@11'	11'	10/28/2022	<0.00500	<0.00500	0.0109	0.00537	<0.00500	<0.00500	0.0110	<0.00500	0.0386	0.0181	<0.00500	0.0785	0.174	0.0351
SS06@10'	10'	10/28/2022	<0.00500	0.104	0.164	0.118	0.0471	0.0932	0.186	0.00905	0.586	0.119	0.0478	2.33	0.834	0.489
SS07@10.5'	10.5'	10/31/2022	<0.00500	0.0558	0.0599	0.0458	0.0192	0.0353	0.100	<0.00500	0.311	0.101	0.0173	1.46	5.37	0.269
SS08@10'	10'	10/31/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS09@10'	10'	11/01/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS10@10'	10'	11/01/2022	<0.00500	0.00534	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0254	0.0159	<0.00500	0.0810	0.165	0.0202
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



**TASMAN**

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)
ECMC Organic Compounds in Soils - GSSL <sup>(1)</sup>			0.55	5.8	0.011	0.3	2.9	0.24	9	0.96	8.9	0.54	0.98	0.006	0.019	1.3
ECMC Organic Compounds in Soils - RSL <sup>(2)</sup>			360	1,800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
SS27@13'	13'	11/03/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0263	<0.00500	<0.00500	0.0453	<0.00500	1.30	3.62	0.00845
SS28@10'	10'	11/03/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS29@10'	10'	11/03/2022	<0.00500	0.0966	0.0935	0.0602	0.0246	0.0480	0.104	<0.00500	0.556	0.108	0.0115	0.562	1.16	0.324
SS30@13'	13'	11/03/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0114	0.0478	<0.00500	<0.00500	0.0849	<0.00500	0.676	1.47	0.0191
SS31@10'	10'	11/03/2022	<0.00500	<0.00500	0.0997	0.0867	0.0330	0.0573	0.139	<0.00500	0.704	<0.00500	0.0143	1.29	2.84	0.461
SS32@10'	10'	11/07/2022	<0.00500	<0.00500	0.0214	0.0112	<0.00500	0.00828	0.0273	<0.00500	0.0747	0.0472	<0.00500	0.177	<0.00500	0.0762
SS33@10'	10'	11/07/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0396	<0.00500	<0.00500	0.0499	<0.00500	<0.00500	<0.00500	0.0143
SS34@8.5'	8.5'	11/07/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS35@10'	10'	11/07/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00733	<0.00500	<0.00500	0.0508	<0.00500	0.327	0.176	<0.00500
SS36@8.5'	8.5'	11/07/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS37@8.5'	8.5'	11/07/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS38@10'	10'	11/07/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS39@11'	11'	11/07/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0127	<0.00500	0.00656	0.0472	<0.00500	<0.00500	<0.00500	<0.00500
SS40@8.5'	8.5'	11/08/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS41@11'	11'	11/08/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
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





**TASMAN**

[illegible]

**TABLE 3**  
**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)
ECMC Organic Compounds in Soils - GSSL <sup>(1)</sup>			0.55	5.8	0.011	0.3	2.9	0.24	9	0.96	8.9	0.54	0.98	0.006	0.019	1.3
ECMC Organic Compounds in Soils - RSL <sup>(2)</sup>			360	1,800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
MW12@15'	15'	06/28/2023	<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 ECMC 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 ECMC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations (Effective January 15, 2021)

ECMC = Colorado Energy & Carbon Management Commission

GSSL = Protection of Groundwater Screening Level

RSL = Residential Soil Screening Level

(<) = 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 = Dibenzo(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 ECMC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations

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

**TABLE 4**  
**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)
ECMC Metals in Soils - GSSL <sup>(1)</sup>			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
ECMC Metals in Soils - RSL <sup>(2)</sup>			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
BH01@6'	6'	09/09/2022	-	-	-	-	-	10.2	-	-	-	-
BH04@6.5'	6.5'	09/09/2022	-	-	-	-	-	<8.26	-	-	-	-
SS01@10'	10'	10/27/2022	-	-	-	-	-	3.53	-	-	-	-
SS03@10'	10'	10/27/2022	-	-	-	-	-	3.96	-	-	-	-
SS04@10'	10'	10/27/2022	-	-	-	-	-	3.11	-	-	-	-
SS05@11'	11'	10/28/2022	-	-	-	-	-	5.60	-	-	-	-
SS06@10'	10'	10/28/2022	-	-	-	-	-	2.58	-	-	-	-
SS07@10.5'	10.5'	10/31/2022	-	-	-	-	-	2.04	-	-	-	-
SS08@10'	10'	10/31/2022	-	-	-	-	-	4.38	-	-	-	-
SS09@10'	10'	11/01/2022	-	-	-	-	-	2.22	-	-	-	-
SS10@10'	10'	11/01/2022	-	-	-	-	-	3.08	-	-	-	-
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	-	-	-	-
SS26@10'	10'	11/03/2022	-	-	-	-	-	3.44	-	-	-	-



**TABLE 4**  
**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)
ECMC Metals in Soils - GSSL <sup>(1)</sup>			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
ECMC Metals in Soils - RSL <sup>(2)</sup>			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
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	-	-	-	-
SS51@12'	12'	11/10/2022	-	-	-	-	-	8.70	-	-	-	-

**TABLE 4**  
**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)
ECMC Metals in Soils - GSSL <sup>(1)</sup>			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
ECMC Metals in Soils - RSL <sup>(2)</sup>			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
SS52@8.5'	8.5'	11/10/2022	-	-	-	-	-	8.34	-	-	-	-
MW01@13'	13'	06/26/2023	-	-	-	-	-	3.57	-	-	-	-
MW01@20'	20'	06/26/2023	-	-	-	-	-	3.32	-	-	-	-
MW02@14'	14'	06/26/2023	-	-	-	-	-	2.36	-	-	-	-
MW02@19'	19'	06/26/2023	-	-	-	-	-	3.05	-	-	-	-
MW03@15'	15'	06/26/2023	-	-	-	-	-	5.16	-	-	-	-
MW03@20'	20'	06/26/2023	-	-	-	-	-	3.22	-	-	-	-
MW04@12'	12'	06/27/2023	-	-	-	-	-	5.97	-	-	-	-
MW04@15'	15'	06/27/2023	-	-	-	-	-	1.52	-	-	-	-
MW05@13'	13'	06/27/2023	-	-	-	-	-	1.35	-	-	-	-
MW05@15'	15'	06/27/2023	-	-	-	-	-	4.62	-	-	-	-
MW06@13'	13'	06/27/2023	-	-	-	-	-	5.86	-	-	-	-
MW06@17'	17'	06/27/2023	-	-	-	-	-	2.79	-	-	-	-
MW07@14'	14'	06/27/2023	-	-	-	-	-	1.96	-	-	-	-
MW07@15'	15'	06/27/2023	-	-	-	-	-	1.80	-	-	-	-
MW08@8'	8'	06/28/2023	-	-	-	-	-	7.74	-	-	-	-
MW08@15'	15'	06/28/2023	-	-	-	-	-	3.05	-	-	-	-
MW09@7'	7'	06/28/2023	-	-	-	-	-	7.00	-	-	-	-
MW09@15'	15'	06/28/2023	-	-	-	-	-	2.52	-	-	-	-
MW10@7'	7'	06/28/2023	-	-	-	-	-	7.27	-	-	-	-
MW10@15'	15'	06/28/2023	-	-	-	-	-	2.53	-	-	-	-
MW11@8'	8'	06/28/2023	-	-	-	-	-	10.9	-	-	-	-
MW11@15'	15'	06/28/2023	-	-	-	-	-	24.1	-	-	-	-
MW12@7'	7'	06/28/2023	-	-	-	-	-	13.9	-	-	-	-

**TABLE 4**  
**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)
ECMC Metals in Soils - GSSL <sup>(1)</sup>			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
ECMC Metals in Soils - RSL <sup>(2)</sup>			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
MW12@15'	15'	06/28/2023	-	-	-	-	-	2.08	-	-	-	-
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
Background @ 4" x1.25			4.10	258	0.116	-	8.16	13.9	10.2	0.355	0.0941	48.4
BG01@6.5'	6.5'	09/09/2022	-	-	-	-	-	11.6	-	-	-	-
BG02@6.5'	6.5'	09/09/2022	-	-	-	-	-	<8.78	-	-	-	-
Average Background @ 6.5' x1.25			-	-	-	-	-	14.5	-	-	-	-
BG01@6'	6'	06/28/2023	-	-	-	-	-	14.4	-	-	-	-
BG02@6'	6'	06/28/2023	-	-	-	-	-	14.5	-	-	-	-
BG03@6'	6'	06/28/2023	-	-	-	-	-	11.9	-	-	-	-
BG04@6'	6'	06/28/2023	-	-	-	-	-	11.1	-	-	-	-
Average Background @ 6' x1.25			-	-	-	-	-	16.2	-	-	-	-
BG01@8'	8'	06/28/2023	-	-	-	-	-	14.5	-	-	-	-
BG02@8'	8'	06/28/2023	-	-	-	-	-	14.7	-	-	-	-
BG03@8'	8'	06/28/2023	-	-	-	-	-	9.46	-	-	-	-
BG04@8'	8'	06/28/2023	-	-	-	-	-	9.28	-	-	-	-
Average Background @ 8' x1.25			-	-	-	-	-	15.0	-	-	-	-
BG01@10'	10'	06/28/2023	-	-	-	-	-	1.94	-	-	-	-
BG02@10'	10'	06/28/2023	-	-	-	-	-	3.47	-	-	-	-
BG03@10'	10'	06/28/2023	-	-	-	-	-	7.47	-	-	-	-
BG04@10'	10'	06/28/2023	-	-	-	-	-	7.79	-	-	-	-
Average Background @ 10' x1.25			-	-	-	-	-	6.46	-	-	-	-
BG01@12'	12'	06/28/2023	-	-	-	-	-	2.79	-	-	-	-
BG02@12'	12'	06/28/2023	-	-	-	-	-	1.37	-	-	-	-



**TABLE 4**  
**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)
ECMC Metals in Soils - GSSL <sup>(1)</sup>			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
ECMC Metals in Soils - RSL <sup>(2)</sup>			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
BG03@12'	12'	06/28/2023	-	-	-	-	-	9.62	-	-	-	-
BG04@12'	12'	06/28/2023	-	-	-	-	-	8.01	-	-	-	-
Average Background @ 12' x1.25			-	-	-	-	-	<b>6.81</b>	-	-	-	-
BG01@14'	14'	06/28/2023	-	-	-	-	-	6.15	-	-	-	-
BG02@14'	14'	06/28/2023	-	-	-	-	-	1.54	-	-	-	-
BG03@14'	14'	06/28/2023	-	-	-	-	-	2.23	-	-	-	-
BG04@14'	14'	06/28/2023	-	-	-	-	-	3.10	-	-	-	-
Average Background @ 14' x1.25			-	-	-	-	-	<b>4.07</b>	-	-	-	-
BG03@20'	20'	06/28/2023	-	-	-	-	-	2.31	-	-	-	-
BG04@20'	20'	06/28/2023	-	-	-	-	-	7.02	-	-	-	-
Average Background @ 20' x1.25			-	-	-	-	-	<b>5.83</b>	-	-	-	-

**Notes:**  
(1) Standards for soil are taken from ECMC Table 915-1: Metals in Soils - Protection of Groundwater Soil Screening Level Concentrations (Effective January 15, 2021)  
(2) Standards for soil are taken from ECMC Table 915-1: Metals in Soils - Residential Soil Screening Level Concentrations (Effective January 15, 2021)  
ECMC = Colorado Energy & Carbon Management Commission  
GSSL = Protection of Groundwater Screening Level  
RSL = Residential Soil Screening Level  
(<) = Analytical result is less than the indicated laboratory minimum detection limit  
mg/kg = milligrams per kilogram  
**BOLD** = Analytical result is in exceedance of ECMC Table 915-1: Metals in Soils - Protection of Groundwater Soil Screening Level Concentrations  
**BOLD** = Analytical result is in exceedance of ECMC Table 915-1: Metals in Soils - Residential Soil Screening Level Concentrations  
**Average background concentration x1.25**  
*Italics* = Laboratory minimum detection limit exceeds the ECMC Table 915-1 Standard  
- = Constituent not analyzed

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



Soil Sample Location	Depth	Date	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
<b>ECMC Soil Suitability for Reclamation<sup>(1)</sup></b>			<b>6 - 8.3</b>	<b>&lt; 6</b>	<b>&lt; 4</b>	<b>2</b>
BH01@6'	6'	09/09/2022	8.31*	-	-	-
BH04@6.5'	6.5'	09/09/2022	8.35	-	-	-
SS01@10'	10'	10/27/2022	8.07	-	-	-
SS03@10'	10'	10/27/2022	8.47	-	-	-
SS04@10'	10'	10/27/2022	8.29	-	-	-
SS05@11'	11'	10/28/2022	8.32	-	-	-
SS06@10'	10'	10/28/2022	8.35	-	-	-
SS07@10.5'	10.5'	10/31/2022	8.26	-	-	-
SS08@10'	10'	10/31/2022	9.06	-	-	-
SS09@10'	10'	11/01/2022	7.62	-	-	-
SS10@10'	10'	11/01/2022	8.45	-	-	-
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	-	-	-
SS32@10'	10'	11/07/2022	7.19	-	-	-

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



Soil Sample Location	Depth	Date	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
<b>ECMC Soil Suitability for Reclamation<sup>(1)</sup></b>			<b>6 - 8.3</b>	<b>&lt; 6</b>	<b>&lt; 4</b>	<b>2</b>
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	<b>8.48</b>	-	-	-
SS38@10'	10'	11/07/2022	8.30*	-	-	-
SS39@11'	11'	11/07/2022	<b>8.58</b>	-	-	-
SS40@8.5'	8.5'	11/08/2022	7.82	-	-	-
SS41@11'	11'	11/08/2022	<b>8.31</b>	-	-	-
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	<b>8.36</b>	-	-	-
SS52@8.5'	8.5'	11/10/2022	8.06	-	-	-
MW01@13'	13'	06/26/2023	8.19	-	-	-
MW01@20'	20'	06/26/2023	7.45	-	-	-
MW02@14'	14'	06/26/2023	8.19	-	-	-
MW02@19'	19'	06/26/2023	7.51	-	-	-
MW03@15'	15'	06/26/2023	6.06	-	-	-
MW03@20'	20'	06/26/2023	7.15	-	-	-
MW04@12'	12'	06/27/2023	7.08	-	-	-
MW04@15'	15'	06/27/2023	7.37	-	-	-
MW05@13'	13'	06/27/2023	7.33	-	-	-
MW05@15'	15'	06/27/2023	6.74	-	-	-
MW06@13'	13'	06/27/2023	7.98	-	-	-



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



Soil Sample Location	Depth	Date	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
<b>ECMC Soil Suitability for Reclamation<sup>(1)</sup></b>			<b>6 - 8.3</b>	<b>&lt; 6</b>	<b>&lt; 4</b>	<b>2</b>
MW06@17'	17'	06/27/2023	8.00	-	-	-
MW07@14'	14'	06/27/2023	8.12	-	-	-
MW07@15'	15'	06/27/2023	8.08	-	-	-
MW08@8'	8'	06/28/2023	8.12	-	-	-
MW08@15'	15'	06/28/2023	8.24	-	-	-
MW09@7'	7'	06/28/2023	7.85	-	-	-
MW09@15'	15'	06/28/2023	8.29	-	-	-
MW10@7'	7'	06/28/2023	8.04	-	-	-
MW10@15'	15'	06/28/2023	8.28	-	-	-
MW11@8'	8'	06/28/2023	7.70	-	-	-
MW11@15'	15'	06/28/2023	7.88	-	-	-
MW12@7'	7'	06/28/2023	7.61	-	-	-
MW12@15'	15'	06/28/2023	7.55	-	-	-
<b>BACKGROUND</b>						
BKG01@4"	4"	4/19/2022	7.76	0.0600	0.337	0.340
BG01@6.5'	6.5'	09/09/2022	8.31	-	-	-
BG02@6.5'	6.5'	09/09/2022	8.14	-	-	-
<b>Average Background @ 6.5'</b>			<b>8.23</b>	<b>-</b>	<b>-</b>	<b>-</b>
BG01@6'	6'	6/28/2023	7.87	-	-	-
BG02@6'	6'	6/28/2023	7.97	-	-	-
BG03@6'	6'	6/28/2023	8.04	-	-	-
BG04@6'	6'	6/28/2023	8.02	-	-	-
<b>Average Background @ 6'</b>			<b>7.98</b>	<b>-</b>	<b>-</b>	<b>-</b>
BG01@8'	8'	6/28/2023	6.99	-	-	-
BG02@8'	8'	6/28/2023	7.67	-	-	-
BG03@8'	8'	6/28/2023	7.91	-	-	-
BG04@8'	8'	6/28/2023	7.83	-	-	-
<b>Average Background @ 8'</b>			<b>7.60</b>	<b>-</b>	<b>-</b>	<b>-</b>
BG01@10'	10'	6/28/2023	7.65	-	-	-
BG02@10'	10'	6/28/2023	7.91	-	-	-

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



Soil Sample Location	Depth	Date	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
<b>ECMC Soil Suitability for Reclamation<sup>(1)</sup></b>			<b>6 - 8.3</b>	<b>&lt; 6</b>	<b>&lt; 4</b>	<b>2</b>
BG03@10'	10'	6/28/2023	7.99	-	-	-
BG04@10'	10'	6/28/2023	8.08	-	-	-
<b>Average Background 10'</b>			<b>7.91</b>	<b>-</b>	<b>-</b>	<b>-</b>
BG01@12'	12'	6/28/2023	7.76	-	-	-
BG02@12'	12'	6/28/2023	7.73	-	-	-
BG03@12'	12'	6/28/2023	7.72	-	-	-
BG04@12'	12'	6/28/2023	7.63	-	-	-
<b>Average Background @ 12'</b>			<b>7.71</b>	<b>-</b>	<b>-</b>	<b>-</b>
BG01@14'	14'	06/28/2023	8.07	-	-	-
BG02@14'	14'	06/28/2023	8.09	-	-	-
BG03@14'	14'	06/28/2023	8.40	-	-	-
BG04@14'	14'	06/28/2023	7.65	-	-	-
<b>Average Background @ 14'</b>			<b>8.05</b>	<b>-</b>	<b>-</b>	<b>-</b>
BG03@20'	20'	45105	7.82	-	-	-
BG04@20'	20'	45105	8.12	-	-	-
<b>Average Background @ 20'</b>			<b>7.97</b>	<b>-</b>	<b>-</b>	<b>-</b>

**Notes:**

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

ECMC = Colorado Energy & Carbon Management 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 ECMC Table 915-1: Soil Suitability for Reclamation Concentrations

**Average background concentration**

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

- = Constituent not analyzed

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

**TABLE 6**  
**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)	Benzo(a)A (µg/L)	1-M (µg/L)	2-M (µg/L)	Dissolved Lead (µg/L)
ECMC Organic Compounds in Groundwater and Groundwater Inorganic Parameters <sup>(1)</sup>		5	560	700	1,400	140	67	67	250 or <1.25 x Background	250 or <1.25 x Background	<1.25 x Background	-	-	-	-
WQCC standards for groundwater <sup>(2)</sup>		-	-	-	-	-	-	-	-	-	-	0.0048			50
EPA standards for tapwater <sup>(3)</sup>		-	-	-	-	-	-	-	-	-	-	-	1.1	3.6	-
GW01	11/09/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	17.7	6.99	7,640	-	-	-	-
BH01	09/16/2022	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	51.7	130	675	-	-	-	-
	07/13/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	49.2	200	707	<0.100	<0.500	<0.500	2.20
BH02	09/16/2022	10.7	<1.00	<1.00	<1.00	6.68	<2.00	<2.00	51.6	19.0	747	-	-	-	-
	07/13/2023	DES													
BH03	09/16/2022	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	44.7	21.9	430	-	-	-	-
	07/13/2023	DES													
BH04	09/16/2022	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	37.8	167	770	-	-	-	-
	07/13/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	37.4	129	814	<0.100	<0.500	<0.500	10.1
MW01	07/13/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	24.2	105	268	4.44	40.8	61.7	1.55
MW02	07/13/2023**	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	23.2	86.8	236	<0.100	<0.500	<0.500	6.12
MW03	07/13/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	29.8	130	285	<0.100	<0.500	<0.500	16.3
MW04	07/13/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	31.0	99.0	342	<0.100	<0.500	<0.500	1.28
MW05	07/13/2023**	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	28.6	87.4	299	<0.100	<0.500	<0.500	4.64
MW06	07/13/2023**	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	23.8	120	269	<0.100	4.52	3.96	2.48
MW07	07/13/2023**	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	21.6	74.6	250	<0.100	0.852	0.844	1.17
MW08	07/13/2023**	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	24.0	110	299	<0.100	<0.500	<0.500	1.22
MW09	07/13/2023**	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	24.0	74.0	280	<0.100	<0.500	<0.500	4.40
MW10	07/13/2023**	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	27.6	65.8	285	<0.100	<0.500	<0.500	2.36
MW11	07/13/2023**	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	28.0	68.4	292	<0.100	<0.500	<0.500	1.78
MW12	07/13/2023**	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	24.4	97.0	272	<0.100	<0.500	<0.500	<0.500

**Notes:**

- (1) Standards for groundwater are taken from ECMC Table 915-1: Organic Compounds in Groundwater and Groundwater Inorganic Parameters (Effective January 15, 2021)
- (2) Inorganic standards for groundwater are taken from WQCC Code of Colorado Regulations [5 CCR 1002-41] - Domestic Water Supply - Human Health Standards
- (3) Standards for groundwater are taken from EPA Regional Screening Levels (RSLs) for Tapwater, as incorporated by reference in Rule 901.b

# TABLE 6 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)	Benzo(a)A (µg/L)	1-M (µg/L)	2-M (µg/L)	Dissolved Lead (µg/L)
ECMC Organic Compounds in Groundwater and Groundwater Inorganic Parameters <sup>(1)</sup>		5	560	700	1,400	140	67	67	250 or <1.25 x Background	250 or <1.25 x Background	<1.25 x Background	-	-	-	-
WQCC standards for groundwater <sup>(2)</sup>		-	-	-	-	-	-	-	-	-	-	0.0048			50
EPA standards for tapwater <sup>(3)</sup>		-	-	-	-	-	-	-	-	-	-	-	1.1	3.6	-

ECMC = Colorado Energy & Carbon Management Commission

WQCC = Water Quality Control Commission

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

µg/L = micrograms per liter

mg/L = milligrams per liter

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

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

TDS = Total Dissolved Solids

Benzo(a)A = Benzo(a)Anthracene

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

07/05/2023\*\* [date] = Groundwater elevation above top of screen

DES = Destroyed



**TABLE 7**  
**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	5,064.84	12.52	9.24	ND		5,055.60
	07/13/2023	5,075.55	12.50	8.59	ND		5,066.96
BH02	09/16/2022	5,063.85	13.14	9.02	9.01	0.01	5,054.84
	07/13/2023		DES				
BH03	09/16/2022	5,060.26	9.14	5.98	5.97	0.01	5,054.29
	07/13/2023		DES				
BH04	09/16/2022	5,062.37	8.37	7.21	ND		5,055.16
	07/13/2023	5,075.30	11.60	6.60	ND		5,068.70
MW01	07/13/2023	5,072.94	18.23	4.50	ND		5,068.44
MW02	07/13/2023**	5,072.24	18.36	3.87	ND		5,068.37
MW03	07/13/2023	5,073.09	18.24	5.23	ND		5,067.86
MW04	07/13/2023	5,072.44	13.66	4.15	ND		5,068.29
MW05	07/13/2023**	5,070.38	15.52	2.65	ND		5,067.73
MW06	07/13/2023**	5,070.82	16.82	3.07	ND		5,067.75
MW07	07/13/2023**	5,070.86	14.70	3.09	ND		5,067.77
MW08	07/13/2023**	5,070.63	14.59	3.39	ND		5,067.24
MW09	07/13/2023**	5,068.99	14.72	3.32	ND		5,065.67

**TABLE 7**  
**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)
MW10	07/13/2023**	5,069.38	14.86	3.27		ND	5,066.11
MW11	07/13/2023**	5,068.74	14.85	2.87		ND	5,065.87
MW12	07/13/2023**	5,068.88	14.93	2.35		ND	5,066.53

**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

DES = Destroyed

07/05/2023\*\* [date] = Groundwater elevation above top of screen

## **TABLES**

**IMPACTED MATERIAL REMOVED**

**TABLE 1**  
**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	1780	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
BH02@7'	7'	09/09/2022	1,793	40.052609	-105.137895	1.4	Y
BH03@8.5'	8.5'	09/09/2022	NA	40.052452	-105.137941	1.4	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
SS02@7'	7'	10/27/2022	402.2	40.052526	-105.137872	1.3	Y
SS11@9.5'	9.5'	11/01/2022	557.4	40.052487	-105.137806	1	Y
SS15@8.5'	8.5'	11/01/2022	11.7	40.052474	-105.137831	1.2	Y
SS19@8'	8'	11/02/2022	227.1	40.052586	-105.137757	1	Y
SS42@8.5'	8.5'	11/08/2022	2.3	40.052573	-105.138065	1	Y
<b>BACKGROUND</b>							
BKG01@4"	4"	04/19/2022	-	40.051679	-105.139727	-	Y
BG01@6.5'	6.5'	09/09/2022	0.0	-	-	-	Y
BG02@6.5'	6.5'	09/09/2022	0.0	-	-	-	Y
BG01@6'	6'	06/28/2023	0.4	40.052627	-105.137418	-	Y
BG01@8'	8'	06/28/2023	0.3	40.052627	-105.137418	-	Y
BG01@10'	10'	06/28/2023	0.0	40.052627	-105.137418	-	Y
BG01@12'	12'	06/28/2023	0.1	40.052627	-105.137418	-	Y
BG01@14'	14'	06/28/2023	0.1	40.052627	-105.137418	-	Y
BG02@6'	6'	06/28/2023	-	40.052764	-105.137515	-	Y



**TABLE 1**  
**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)
BG02@8'	8'	06/28/2023	-	40.052764	-105.137515	-	Y
BG02@10'	10'	06/28/2023	-	40.052764	-105.137515	-	Y
BG02@12'	12'	06/28/2023	0.4	40.052764	-105.137515	-	Y
BG02@14'	14'	06/28/2023	0.1	40.052764	-105.137515	-	Y
BG03@6'	6'	06/28/2023	-	40.052685	-105.138085	-	Y
BG03@8'	8'	06/28/2023	0.2	40.052685	-105.138085	-	Y
BG03@10'	10'	06/28/2023	0.2	40.052685	-105.138085	-	Y
BG03@12'	12'	06/28/2023	0.4	40.052685	-105.138085	-	Y
BG03@14'	14'	06/28/2023	0.6	40.052685	-105.138085	-	Y
BG03@20'	20'	06/28/2023	0.4	40.052685	-105.138085	-	Y
BG04@6'	6'	06/28/2023	0.3	40.052333	-105.138356	-	Y
BG04@8'	8'	06/28/2023	0.1	40.052333	-105.138356	-	Y
BG04@10'	10'	06/28/2023	0.1	40.052333	-105.138356	-	Y
BG04@12'	12'	06/28/2023	-	40.052333	-105.138356	-	Y
BG04@14'	14'	06/28/2023	0.0	40.052333	-105.138356	-	Y
BG04@20'	20'	06/28/2023	0.7	40.052333	-105.138356	-	Y

**Notes:**

PID = Photoionization Detector

ppm = parts per million

GPS = Global Positioning System

PDOP = Position Dilution of Precision

- = Not Applicable

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

**TABLE 2**  
**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)
ECMC Organic Compounds in Soils - GSSL <sup>(1)</sup>			0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
ECMC Organic Compounds in Soils - RSL <sup>(2)</sup>			1.2	490	5.8	58	2	500			30	27
FL/SEP04@4'	4'	04/19/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<100			<0.00200	<0.00200
AST01@3"	3"	04/19/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<100			<0.00200	<0.00200
AST02@2"	2"	04/19/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	172.2			<0.00200	<0.00200
PWV01B@4'	4'	04/19/2022	<0.00200	<0.00200	<0.00200	<0.00200	0.02430	725.5			<0.00200	<0.00200
PWV01N@3'	3'	04/19/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00335	<100			<0.00200	<0.00200
PWV01E@3.5'	3.5'	04/19/2022	0.00664	<0.00200	<0.00200	0.00336	0.715	2,335.2			0.0801	<0.00200
PWV01S@1'	1'	04/19/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<100			<0.00200	<0.00200
PWV01W@2'	2'	04/19/2022	<0.00200	<0.00200	<0.00200	<0.00200	0.00571	<100			<0.00200	<0.00200
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
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
SS02@7'	7'	10/27/2022	<0.0020	<0.0050	<0.0050	<0.010	0.035	380	510	<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
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
SS19@8'	8'	11/02/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050

**TABLE 2**  
**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)
ECMC Organic Compounds in Soils - GSSL <sup>(1)</sup>			0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
ECMC Organic Compounds in Soils - RSL <sup>(2)</sup>			1.2	490	5.8	58	2	500			30	27
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

**Notes:**

VOCs = Volatile Organic Compounds

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

ECMC = Colorado Energy & Carbon Management Commission

GSSL = Protection of Groundwater Screening Level

RSL = Residential Soil Screening Level

(<) = 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 ECMC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations

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

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

**TABLE 3**  
**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)
ECMC Organic Compounds in Soils - GSSL <sup>(1)</sup>			0.55	5.8	0.011	0.3	2.9	0.24	9	0.96	8.9	0.54	0.98	0.006	0.019	1.3
ECMC Organic Compounds in Soils - RSL <sup>(2)</sup>			360	1,800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
PWV01B@4'	4'	04/19/2022	0.0225	<0.0067	0.00858	<0.0067	<0.0067	<0.0067	0.0304	<0.0067	<0.0067	0.0481	<0.0067	<b>0.0907</b>	<b>0.132</b>	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	<b>0.0116</b>	<0.0067	<0.0067	<0.0067	0.0601	<0.0067	0.00554	0.348	<0.0067	<b>1.52</b>	<b>2.75</b>	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	<b>0.0155</b>	<b>0.0268</b>	<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	<b>1.05</b>	<b>2.53</b>	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
SS02@7'	7'	10/27/2022	<0.00500	<0.00500	<b>0.0508</b>	0.0343	0.0143	0.0272	0.0997	<0.00500	0.162	0.190	0.0136	<b>0.0991</b>	<0.00500	0.167
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	<b>0.173</b>	<b>0.408</b>	<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
SS19@8'	8'	11/02/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS42@8.5'	8.5'	11/08/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

**Notes:**

PAHs = Polycyclic Aromatic Hydrocarbons

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

ECMC = Colorado Energy & Carbon Management Commission

GSSL = Protection of Groundwater Screening Level

RSL = Residential Soil Screening Level

(<) = 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 = Dibenzo(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 ECMC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations

**TABLE 3**  
**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)
ECMC Organic Compounds in Soils - GSSL <sup>(1)</sup>			0.55	5.8	0.011	0.3	2.9	0.24	9	0.96	8.9	0.54	0.98	0.006	0.019	1.3
ECMC Organic Compounds in Soils - RSL <sup>(2)</sup>			360	1,800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180

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

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



**TABLE 4**  
**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)
ECMC Metals in Soils - GSSL <sup>(1)</sup>			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
ECMC Metals in Soils - RSL <sup>(2)</sup>			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
PWV01B@4'	4'	04/19/2022	3.80	162	0.220	<0.515	16.7	15.4	19.5	0.477	0.0651	70.9
PWV01N@3'	3'	04/19/2022	2.09	115	0.137	<0.246	8.16	8.06	10.2	0.354	0.0404	35.1
PWV01E@3.5'	3.5'	04/19/2022	1.93	128	0.143	<0.514	13.4	10.7	13.6	0.456	0.0526	48.8
PWV01S@1'	1'	04/19/2022	2.52	120	0.146	<0.507	10.0	9.08	11.6	0.385	0.0480	42.0
PWV01W@2'	2'	04/19/2022	2.27	115	0.152	<0.245	9.73	8.86	11.7	0.345	0.0421	42.3
BH02@7'	7'	09/09/2022	-	-	-	-	-	<9.60	-	-	-	-
BH03@8.5'	8.5'	09/09/2022	-	-	-	-	-	<7.50	-	-	-	-
SS02@7'	7'	10/27/2022	-	-	-	-	-	5.63	-	-	-	-
SS11@9.5'	9.5'	11/01/2022	-	-	-	-	-	2.43	-	-	-	-
SS15@8.5'	8.5'	11/01/2022	-	-	-	-	-	4.67	-	-	-	-
SS19@8'	8'	11/02/2022	-	-	-	-	-	10.3	-	-	-	-
SS42@8.5'	8.5'	11/08/2022	-	-	-	-	-	9.20	-	-	-	-
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
Background @ 4" x1.25			4.10	258	0.116	-	8.16	13.9	10.2	0.355	0.0941	48.4
BG01@6.5'	6.5'	09/09/2022	-	-	-	-	-	11.6	-	-	-	-
BG02@6.5'	6.5'	09/09/2022	-	-	-	-	-	<8.78	-	-	-	-
Average Background @ 6.5' x1.25			-	-	-	-	-	14.5	-	-	-	-
BG01@6'	6'	06/28/2023	-	-	-	-	-	14.4	-	-	-	-
BG02@6'	6'	06/28/2023	-	-	-	-	-	14.5	-	-	-	-
BG03@6'	6'	06/28/2023	-	-	-	-	-	11.9	-	-	-	-
BG04@6'	6'	06/28/2023	-	-	-	-	-	11.1	-	-	-	-
Average Background @ 6' x1.25			-	-	-	-	-	16.2	-	-	-	-
BG01@8'	8'	06/28/2023	-	-	-	-	-	14.5	-	-	-	-

**TABLE 4**  
**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)
ECMC Metals in Soils - GSSL <sup>(1)</sup>			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
ECMC Metals in Soils - RSL <sup>(2)</sup>			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
BG02@8'	8'	06/28/2023	-	-	-	-	-	14.7	-	-	-	-
BG03@8'	8'	06/28/2023	-	-	-	-	-	9.46	-	-	-	-
BG04@8'	8'	06/28/2023	-	-	-	-	-	9.28	-	-	-	-
Average Background @ 8' x1.25			-	-	-	-	-	15.0	-	-	-	-
BG01@10'	10'	06/28/2023	-	-	-	-	-	1.94	-	-	-	-
BG02@10'	10'	06/28/2023	-	-	-	-	-	3.47	-	-	-	-
BG03@10'	10'	06/28/2023	-	-	-	-	-	7.47	-	-	-	-
BG04@10'	10'	06/28/2023	-	-	-	-	-	7.79	-	-	-	-
Average Background @ 10' x1.25			-	-	-	-	-	6.46	-	-	-	-
BG01@12'	12'	06/28/2023	-	-	-	-	-	2.79	-	-	-	-
BG02@12'	12'	06/28/2023	-	-	-	-	-	1.37	-	-	-	-
BG03@12'	12'	06/28/2023	-	-	-	-	-	9.62	-	-	-	-
BG04@12'	12'	06/28/2023	-	-	-	-	-	8.01	-	-	-	-
Average Background @ 12' x1.25			-	-	-	-	-	6.81	-	-	-	-
BG01@14'	14'	06/28/2023	-	-	-	-	-	6.15	-	-	-	-
BG02@14'	14'	06/28/2023	-	-	-	-	-	1.54	-	-	-	-
BG03@14'	14'	06/28/2023	-	-	-	-	-	2.23	-	-	-	-
BG04@14'	14'	06/28/2023	-	-	-	-	-	3.10	-	-	-	-
Average Background @ 14' x1.25			-	-	-	-	-	4.07	-	-	-	-
BG03@20'	20'	06/28/2023	-	-	-	-	-	2.31	-	-	-	-
BG04@20'	20'	06/28/2023	-	-	-	-	-	7.02	-	-	-	-
Average Background @ 20' x1.25			-	-	-	-	-	5.83	-	-	-	-

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

**TABLE 4**  
**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)
ECMC Metals in Soils - GSSL <sup>(1)</sup>			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
ECMC Metals in Soils - RSL <sup>(2)</sup>			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000

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

ECMC = Colorado Energy & Carbon Management Commission

GSSL = Protection of Groundwater Screening Level

RSL = Residential Soil Screening Level

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

mg/kg = milligrams per kilogram

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

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

**Average background concentration x1.25**

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

- = Constituent not analyzed

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

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



Soil Sample Location	Depth	Date	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
<b>ECMC Soil Suitability for Reclamation<sup>(1)</sup></b>			<b>6 - 8.3</b>	<b>&lt; 6</b>	<b>&lt; 4</b>	<b>2</b>
FL/SEP04@4'	4'	4/19/2022	8.25	0.249	0.379	0.281
AST01@3"	3"	4/19/2022	8.19	0.0400	0.248	<0.0994
AST02@2"	2"	4/19/2022	8.29	0.336	0.255	<0.100
PWV01B@4'	4'	4/19/2022	<b>8.78</b>	1.080	1.080	0.399
PWV01N@3'	3'	4/19/2022	<b>8.53</b>	0.111	0.266	<0.100
PWV01E@3.5'	3.5'	4/19/2022	<b>8.67</b>	0.987	0.581	0.723
PWV01S@1'	1'	4/19/2022	<b>8.48</b>	0.0570	0.272	0.241
PWV01W@2'	2'	4/19/2022	<b>8.47</b>	0.350	0.365	0.709
BH02@7'	7'	09/09/2022	7.91	-	-	-
BH03@8.5'	8.5'	09/09/2022	<b>8.45</b>	-	-	-
SS02@7'	7'	10/27/2022	<b>9.21</b>	-	-	-
SS11@9.5'	9.5'	11/01/2022	8.21	-	-	-
SS15@8.5'	8.5'	11/01/2022	8.22	-	-	-
SS19@8'	8'	11/02/2022	8.07	-	-	-
SS42@8.5'	8.5'	11/08/2022	7.73	-	-	-
<b>BACKGROUND</b>						
BKG01@4"	<b>4"</b>	4/19/2022	<b>7.76</b>	<b>0.0600</b>	<b>0.337</b>	<b>0.340</b>
BG01@6.5'	6.5'	09/09/2022	8.31	-	-	-
BG02@6.5'	6.5'	09/09/2022	8.14	-	-	-
<b>Average Background @ 6.5'</b>			<b>8.23</b>	-	-	-
BG01@6'	6'	6/28/2023	7.87	-	-	-
BG02@6'	6'	6/28/2023	7.97	-	-	-
BG03@6'	6'	6/28/2023	8.04	-	-	-
BG04@6'	6'	6/28/2023	8.02	-	-	-
<b>Average Background @ 6'</b>			<b>7.98</b>	-	-	-
BG01@8'	8'	6/28/2023	6.99	-	-	-
BG02@8'	8'	6/28/2023	7.67	-	-	-
BG03@8'	8'	6/28/2023	7.91	-	-	-
BG04@8'	8'	6/28/2023	7.83	-	-	-
<b>Average Background @ 8'</b>			<b>7.60</b>	-	-	-

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



Soil Sample Location	Depth	Date	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
<b>ECMC Soil Suitability for Reclamation<sup>(1)</sup></b>			<b>6 - 8.3</b>	<b>&lt; 6</b>	<b>&lt; 4</b>	<b>2</b>
BG01@10'	10'	6/28/2023	7.65	-	-	-
BG02@10'	10'	6/28/2023	7.91	-	-	-
BG03@10'	10'	6/28/2023	7.99	-	-	-
BG04@10'	10'	6/28/2023	8.08	-	-	-
<b>Average Background 10'</b>			<b>7.91</b>	<b>-</b>	<b>-</b>	<b>-</b>
BG01@12'	12'	6/28/2023	7.76	-	-	-
BG02@12'	12'	6/28/2023	7.73	-	-	-
BG03@12'	12'	6/28/2023	7.72	-	-	-
BG04@12'	12'	6/28/2023	7.63	-	-	-
<b>Average Background @ 12'</b>			<b>7.71</b>	<b>-</b>	<b>-</b>	<b>-</b>
BG01@14'	14'	06/28/2023	8.07	-	-	-
BG02@14'	14'	06/28/2023	8.09	-	-	-
BG03@14'	14'	06/28/2023	8.40	-	-	-
BG04@14'	14'	06/28/2023	7.65	-	-	-
<b>Average Background @ 14'</b>			<b>8.05</b>	<b>-</b>	<b>-</b>	<b>-</b>
BG03@20'	20'	45105	7.82	-	-	-
BG04@20'	20'	45105	8.12	-	-	-
<b>Average Background @ 20'</b>			<b>7.97</b>	<b>-</b>	<b>-</b>	<b>-</b>

**Notes:**

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

ECMC = Colorado Energy & Carbon Management 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 ECMC Table 915-1: Soil Suitability for Reclamation Concentrations

**Average background concentration**

- = Constituent not analyzed

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



## **LABORATORY ANALYTICAL DATA**

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 20, 2023

Sam Vogt

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: Civitas - Culver 5-17 Tank Battery

Work Order #2307230

Enclosed are the results of analyses for samples received by Summit Scientific on 07/13/23 18:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jacob Wood". The signature is written in a cursive, flowing style.

Jacob Wood For Paul Shrewsbury

President



Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
07/20/23 09:04

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW03	2307230-01	Water	07/13/23 10:50	07/13/23 18:35
MW04	2307230-02	Water	07/13/23 11:26	07/13/23 18:35
MW05	2307230-03	Water	07/13/23 11:33	07/13/23 18:35
MW12	2307230-04	Water	07/13/23 11:53	07/13/23 18:35
MW11	2307230-05	Water	07/13/23 12:12	07/13/23 18:35
MW09	2307230-06	Water	07/13/23 12:25	07/13/23 18:35
MW08	2307230-07	Water	07/13/23 12:48	07/13/23 18:35
MW10	2307230-08	Water	07/13/23 13:02	07/13/23 18:35
MW02	2307230-09	Water	07/13/23 13:23	07/13/23 18:35
MW06	2307230-10	Water	07/13/23 13:32	07/13/23 18:35
MW07	2307230-11	Water	07/13/23 13:53	07/13/23 18:35
MW01	2307230-12	Water	07/13/23 14:05	07/13/23 18:35
BH01	2307230-13	Water	07/13/23 14:29	07/13/23 18:35
BH04	2307230-14	Water	07/13/23 14:57	07/13/23 18:35

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.*

<b>Send Data To:</b>		<b>Send Invoice To:</b>
Client: Civitas/Tasman	Project Manager: Sam Vogt/Jacob Evans	Company: <b>CIVITAS</b>
Address: 6855 W. 119th Ave	E-Mail: svgot@tasman-geo.com; jevans@civiresources.com	Project Name/Location: <b>Culver 5-17 TB</b>
City/State/Zip: Broomfield, CO 80020		AFE#:
Phone: PM (610) 405-9078	Project Name: <b>Culver 5-17 TB</b>	PO/Billing Codes:
Sampler Name: <b>LB + EL</b>	Project Number:	Contact:

				Preservative				Matrix				Analysis Requested										Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEXN	1,2,4 + 1,3,5 TMBs	TPH (GRO, DRO, ORO)	Chloride	Sulfate	TDS	Dissolved Pb #	PAHs	Anion: ***		
1	MW03	7/13/23	1050	6	3		3		X				X	X		X	X	X	X	X	X	* Pb = Lead	
2	MW04		1126																			** PAHs: 1-M, 2-M	
3	MW05		1133																			*** Anion:	
4	MW12		1153																			Benzo(a)anthracene	
5	MW11		1212																				
6	MW09		1225																				
7	MW08		1248																				
8	MW10		1302																				
9	MW02		1323																				
10	MW06		1332																				
11	MW07		1353																				
12	MW01		1405																				
13	BH02		1429																				
14	BH04		1457																				
15																							

Relinquished by: <i>Sam Vogt</i>	Date/Time: 7/13/23 21:25	Received by: Tasman Lockbox	Date/Time: 7/13/23 21:25	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: <i>Tasman Lockbox</i>	Date/Time: 7/13/23 1835	Received by: <i>[Signature]</i>	Date/Time: 7/13/23 1835	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 11.1	Corrected Temperature: 10	IR gun #: 1	HNO3 lot #:			

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2307230Client: Contas trasman Client Project ID: Culver 5-17-10Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: \_\_\_\_\_
☐ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☐ ~~Water~~ ☒ Other ☐Temp (°C) 11.1Thermometer # 1

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

Additional Comments (if any):

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

7/13/23  
Date/Time





Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
07/20/23 09:04

**MW03**  
**2307230-01 (Water)**

**Summit Scientific**

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

Date Sampled: **07/13/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BGG0438	07/14/23	07/14/23	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: **07/13/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	13.2	99.2 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.0	97.4 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.0	97.8 %		21-167		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Date Sampled: **07/13/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzo (a) anthracene	ND	0.100		ug/l	1	BGG0471	07/17/23	07/18/23	EPA 8270D SIM	
1-Methylnaphthalene	ND	0.500		"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.500		"	"	"	"	"	"	

Date Sampled: **07/13/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 2-Methylnaphthalene-d10	2.16	108 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.31	65.7 %		40-150		"	"	"	"	

**Dissolved Metals by EPA Method 200.8**

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.



Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
07/20/23 09:04

**MW03**  
**2307230-01 (Water)**

**Summit Scientific**

**Dissolved Metals by EPA Method 200.8**

Date Sampled: **07/13/23 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	16.3	0.500	ug/l	1	BGG0449	07/14/23	07/17/23	EPA 200.8	

**Anions by EPA Method 300.0**

Date Sampled: **07/13/23 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	29.8	12.0	mg/L	200	BGG0428	07/14/23	07/14/23	EPA 300.0	
Sulfate	130	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **07/13/23 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	285	10.0	mg/L	1	BGG0434	07/14/23	07/14/23	SM2540C	

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
07/20/23 09:04

**MW04**  
**2307230-02 (Water)**

**Summit Scientific**

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

Date Sampled: **07/13/23 11:26**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGG0438	07/14/23	07/14/23	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: **07/13/23 11:26**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	13.9	104 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.3	99.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.9	96.5 %	21-167		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Date Sampled: **07/13/23 11:26**


Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzo (a) anthracene	ND	0.100	ug/l	1	BGG0471	07/17/23	07/18/23	EPA 8270D SIM	
1-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **07/13/23 11:26**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.56	77.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.25	62.7 %	40-150		"	"	"	"	

**Dissolved Metals by EPA Method 200.8**

Summit Scientific



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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
07/20/23 09:04

**MW04**  
**2307230-02 (Water)**

**Summit Scientific**

**Dissolved Metals by EPA Method 200.8**

Date Sampled: **07/13/23 11:26**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Lead	1.28	0.500	ug/l	1	BGG0449	07/14/23	07/17/23	EPA 200.8	

**Anions by EPA Method 300.0**

Date Sampled: **07/13/23 11:26**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	31.0	12.0	mg/L	200	BGG0428	07/14/23	07/14/23	EPA 300.0	
Sulfate	99.0	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **07/13/23 11:26**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	342	10.0	mg/L	1	BGG0434	07/14/23	07/14/23	SM2540C	

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
07/20/23 09:04

**MW05**  
**2307230-03 (Water)**

**Summit Scientific**

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

Date Sampled: **07/13/23 11:33**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGG0438	07/14/23	07/14/23	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: **07/13/23 11:33**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	13.4	101 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.4	100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.6	94.6 %	21-167		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Date Sampled: **07/13/23 11:33**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzo (a) anthracene	ND	0.100	ug/l	1	BGG0471	07/17/23	07/18/23	EPA 8270D SIM	
1-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **07/13/23 11:33**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.57	78.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.37	68.4 %	40-150		"	"	"	"	

**Dissolved Metals by EPA Method 200.8**

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.



Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
07/20/23 09:04

**MW05**  
**2307230-03 (Water)**

**Summit Scientific**

**Dissolved Metals by EPA Method 200.8**

Date Sampled: **07/13/23 11:33**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Lead</b>	<b>4.64</b>	0.500	ug/l	1	BGG0449	07/14/23	07/17/23	EPA 200.8	

**Anions by EPA Method 300.0**

Date Sampled: **07/13/23 11:33**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Chloride</b>	<b>28.6</b>	12.0	mg/L	200	BGG0428	07/14/23	07/14/23	EPA 300.0	
<b>Sulfate</b>	<b>87.4</b>	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **07/13/23 11:33**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Total Dissolved Solids</b>	<b>299</b>	10.0	mg/L	1	BGG0434	07/14/23	07/14/23	SM2540C	

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
07/20/23 09:04

**MW12**  
**2307230-04 (Water)**

**Summit Scientific**

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

Date Sampled: **07/13/23 11:53**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGG0438	07/14/23	07/14/23	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: **07/13/23 11:53**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	13.3	99.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.1	98.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.9	96.7 %	21-167		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Date Sampled: **07/13/23 11:53**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzo (a) anthracene	ND	0.100	ug/l	1	BGG0471	07/17/23	07/18/23	EPA 8270D SIM	
1-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **07/13/23 11:53**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.36	67.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.34	66.9 %	40-150		"	"	"	"	

**Dissolved Metals by EPA Method 200.8**

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
07/20/23 09:04

**MW12**  
**2307230-04 (Water)**

**Summit Scientific**

**Dissolved Metals by EPA Method 200.8**

Date Sampled: **07/13/23 11:53**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Lead	ND	0.500	ug/l	1	BGG0449	07/14/23	07/17/23	EPA 200.8	

**Anions by EPA Method 300.0**

Date Sampled: **07/13/23 11:53**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	<b>24.4</b>	12.0	mg/L	200	BGG0428	07/14/23	07/14/23	EPA 300.0	
Sulfate	<b>97.0</b>	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **07/13/23 11:53**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	<b>272</b>	10.0	mg/L	1	BGG0434	07/14/23	07/14/23	SM2540C	

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
07/20/23 09:04

**MW11**  
**2307230-05 (Water)**

**Summit Scientific**

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

Date Sampled: **07/13/23 12:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGG0438	07/14/23	07/14/23	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: **07/13/23 12:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	13.6	102 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.2	98.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.6	94.9 %	21-167		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Date Sampled: **07/13/23 12:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzo (a) anthracene	ND	0.100	ug/l	1	BGG0471	07/17/23	07/18/23	EPA 8270D SIM	
1-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **07/13/23 12:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.43	71.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.28	63.8 %	40-150		"	"	"	"	

**Dissolved Metals by EPA Method 200.8**

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
07/20/23 09:04

**MW11**  
**2307230-05 (Water)**

**Summit Scientific**

**Dissolved Metals by EPA Method 200.8**

Date Sampled: **07/13/23 12:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Lead</b>	<b>1.78</b>	0.500	ug/l	1	BGG0449	07/14/23	07/17/23	EPA 200.8	

**Anions by EPA Method 300.0**

Date Sampled: **07/13/23 12:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Chloride</b>	<b>28.0</b>	12.0	mg/L	200	BGG0428	07/14/23	07/14/23	EPA 300.0	
<b>Sulfate</b>	<b>68.4</b>	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **07/13/23 12:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Total Dissolved Solids</b>	<b>292</b>	10.0	mg/L	1	BGG0434	07/14/23	07/14/23	SM2540C	

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
07/20/23 09:04

**MW09**  
**2307230-06 (Water)**

**Summit Scientific**

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

Date Sampled: **07/13/23 12:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGG0438	07/14/23	07/14/23	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: **07/13/23 12:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	13.3	99.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.1	98.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.9	96.8 %	21-167		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Date Sampled: **07/13/23 12:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzo (a) anthracene	ND	0.100	ug/l	1	BGG0471	07/17/23	07/18/23	EPA 8270D SIM	
1-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **07/13/23 12:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.61	80.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.38	68.8 %	40-150		"	"	"	"	

**Dissolved Metals by EPA Method 200.8**

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
07/20/23 09:04

**MW09**  
**2307230-06 (Water)**

**Summit Scientific**

**Dissolved Metals by EPA Method 200.8**

Date Sampled: **07/13/23 12:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Lead	4.40	0.500	ug/l	1	BGG0449	07/14/23	07/17/23	EPA 200.8	

**Anions by EPA Method 300.0**

Date Sampled: **07/13/23 12:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	24.0	12.0	mg/L	200	BGG0428	07/14/23	07/14/23	EPA 300.0	
Sulfate	74.0	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **07/13/23 12:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	280	10.0	mg/L	1	BGG0434	07/14/23	07/14/23	SM2540C	

Summit Scientific

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
07/20/23 09:04

**MW08**  
**2307230-07 (Water)**

**Summit Scientific**

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

Date Sampled: **07/13/23 12:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGG0438	07/14/23	07/14/23	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: **07/13/23 12:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	12.4	92.7 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	12.6	94.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.6	94.6 %	21-167		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Date Sampled: **07/13/23 12:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzo (a) anthracene	ND	0.100	ug/l	1	BGG0471	07/17/23	07/18/23	EPA 8270D SIM	
1-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **07/13/23 12:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.34	67.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.33	66.3 %	40-150		"	"	"	"	

**Dissolved Metals by EPA Method 200.8**

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
07/20/23 09:04

**MW08**  
**2307230-07 (Water)**

**Summit Scientific**

**Dissolved Metals by EPA Method 200.8**

Date Sampled: **07/13/23 12:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Lead</b>	<b>1.22</b>	0.500	ug/l	1	BGG0449	07/14/23	07/17/23	EPA 200.8	

**Anions by EPA Method 300.0**

Date Sampled: **07/13/23 12:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Chloride</b>	<b>24.0</b>	12.0	mg/L	200	BGG0428	07/14/23	07/14/23	EPA 300.0	
<b>Sulfate</b>	<b>110</b>	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **07/13/23 12:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Total Dissolved Solids</b>	<b>299</b>	10.0	mg/L	1	BGG0434	07/14/23	07/14/23	SM2540C	

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
07/20/23 09:04

**MW10**  
**2307230-08 (Water)**

**Summit Scientific**

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

Date Sampled: **07/13/23 13:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGG0438	07/14/23	07/14/23	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: **07/13/23 13:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	11.3	84.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	11.6	87.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.6	94.4 %	21-167		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Date Sampled: **07/13/23 13:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzo (a) anthracene	ND	0.100	ug/l	1	BGG0471	07/17/23	07/19/23	EPA 8270D SIM	
1-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **07/13/23 13:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.28	64.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.22	60.9 %	40-150		"	"	"	"	

**Dissolved Metals by EPA Method 200.8**

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
07/20/23 09:04

**MW10**  
**2307230-08 (Water)**

**Summit Scientific**

**Dissolved Metals by EPA Method 200.8**

Date Sampled: **07/13/23 13:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	2.36	0.500	ug/l	1	BGG0449	07/14/23	07/17/23	EPA 200.8	

**Anions by EPA Method 300.0**

Date Sampled: **07/13/23 13:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	27.6	12.0	mg/L	200	BGG0428	07/14/23	07/14/23	EPA 300.0	
Sulfate	65.8	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **07/13/23 13:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	285	10.0	mg/L	1	BGG0434	07/14/23	07/14/23	SM2540C	

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
07/20/23 09:04

**MW02**  
**2307230-09 (Water)**

**Summit Scientific**

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

Date Sampled: **07/13/23 13:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGG0438	07/14/23	07/15/23	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: **07/13/23 13:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	13.4	101 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.3	99.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.1	98.1 %	21-167		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Date Sampled: **07/13/23 13:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzo (a) anthracene	ND	0.100	ug/l	1	BGG0471	07/17/23	07/19/23	EPA 8270D SIM	
1-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **07/13/23 13:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.43	71.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.43	71.7 %	40-150		"	"	"	"	

**Dissolved Metals by EPA Method 200.8**

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
07/20/23 09:04

**MW02**  
**2307230-09 (Water)**

**Summit Scientific**

**Dissolved Metals by EPA Method 200.8**

Date Sampled: **07/13/23 13:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Lead</b>	<b>6.12</b>	0.500	ug/l	1	BGG0449	07/14/23	07/17/23	EPA 200.8	

**Anions by EPA Method 300.0**

Date Sampled: **07/13/23 13:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Chloride</b>	<b>23.2</b>	12.0	mg/L	200	BGG0428	07/14/23	07/14/23	EPA 300.0	
<b>Sulfate</b>	<b>86.8</b>	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **07/13/23 13:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Total Dissolved Solids</b>	<b>236</b>	10.0	mg/L	1	BGG0434	07/14/23	07/14/23	SM2540C	

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
07/20/23 09:04

**MW06**  
**2307230-10 (Water)**

**Summit Scientific**

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

Date Sampled: **07/13/23 13:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGG0438	07/14/23	07/15/23	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: **07/13/23 13:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	12.5	94.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.1	98.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.4	101 %	21-167		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Date Sampled: **07/13/23 13:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzo (a) anthracene	ND	0.100	ug/l	1	BGG0471	07/17/23	07/19/23	EPA 8270D SIM	
1-Methylnaphthalene	4.52	0.500	"	"	"	"	"	"	
2-Methylnaphthalene	3.96	0.500	"	"	"	"	"	"	

Date Sampled: **07/13/23 13:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	2.12	106 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.11	55.5 %	40-150		"	"	"	"	

**Dissolved Metals by EPA Method 200.8**

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
07/20/23 09:04

**MW06**  
**2307230-10 (Water)**

**Summit Scientific**

**Dissolved Metals by EPA Method 200.8**

Date Sampled: **07/13/23 13:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Lead	2.48	0.500	ug/l	1	BGG0449	07/14/23	07/17/23	EPA 200.8	

**Anions by EPA Method 300.0**

Date Sampled: **07/13/23 13:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	23.8	12.0	mg/L	200	BGG0428	07/14/23	07/14/23	EPA 300.0	
Sulfate	120	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **07/13/23 13:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	269	10.0	mg/L	1	BGG0434	07/14/23	07/14/23	SM2540C	

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
07/20/23 09:04

**MW07**  
**2307230-11 (Water)**

**Summit Scientific**

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

Date Sampled: **07/13/23 13:53**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGG0438	07/14/23	07/15/23	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: **07/13/23 13:53**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	11.4	85.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	11.6	86.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.8	96.4 %	21-167		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Date Sampled: **07/13/23 13:53**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzo (a) anthracene	ND	0.100	ug/l	1	BGG0471	07/17/23	07/19/23	EPA 8270D SIM	
1-Methylnaphthalene	<b>0.852</b>	0.500	"	"	"	"	"	"	
2-Methylnaphthalene	<b>0.844</b>	0.500	"	"	"	"	"	"	

Date Sampled: **07/13/23 13:53**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.24	62.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.37	68.4 %	40-150		"	"	"	"	

**Dissolved Metals by EPA Method 200.8**

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
07/20/23 09:04

**MW07**  
**2307230-11 (Water)**

**Summit Scientific**

**Dissolved Metals by EPA Method 200.8**

Date Sampled: **07/13/23 13:53**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Lead</b>	<b>1.17</b>	0.500	ug/l	1	BGG0449	07/14/23	07/17/23	EPA 200.8	

**Anions by EPA Method 300.0**

Date Sampled: **07/13/23 13:53**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Chloride</b>	<b>21.6</b>	12.0	mg/L	200	BGG0428	07/14/23	07/14/23	EPA 300.0	
<b>Sulfate</b>	<b>74.6</b>	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **07/13/23 13:53**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>Total Dissolved Solids</b>	<b>250</b>	10.0	mg/L	1	BGG0434	07/14/23	07/14/23	SM2540C	

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
07/20/23 09:04

**MW01**  
**2307230-12 (Water)**

**Summit Scientific**

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

Date Sampled: **07/13/23 14:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGG0438	07/14/23	07/15/23	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: **07/13/23 14:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	12.8	95.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	12.8	96.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	15.6	117 %	21-167		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Date Sampled: **07/13/23 14:05**

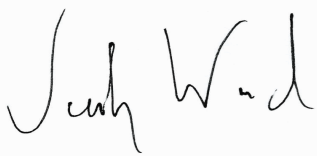
Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzo (a) anthracene	4.44	1.00	ug/l	10	BGG0471	07/17/23	07/19/23	EPA 8270D SIM	
1-Methylnaphthalene	40.8	5.00	"	"	"	"	"	"	
2-Methylnaphthalene	61.7	5.00	"	"	"	"	"	"	

Date Sampled: **07/13/23 14:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.00	%	40-150		"	"	"	"	S-01
Surrogate: Fluoranthene-d10	2.11	106 %	40-150		"	"	"	"	

**Dissolved Metals by EPA Method 200.8**

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
07/20/23 09:04

**MW01**  
**2307230-12 (Water)**

**Summit Scientific**

**Dissolved Metals by EPA Method 200.8**

Date Sampled: **07/13/23 14:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Lead	1.55	0.500	ug/l	1	BGG0449	07/14/23	07/17/23	EPA 200.8	

**Anions by EPA Method 300.0**

Date Sampled: **07/13/23 14:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	24.2	12.0	mg/L	200	BGG0428	07/14/23	07/14/23	EPA 300.0	
Sulfate	105	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **07/13/23 14:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	268	10.0	mg/L	1	BGG0434	07/14/23	07/14/23	SM2540C	

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
07/20/23 09:04

**BH01**  
**2307230-13 (Water)**

**Summit Scientific**

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

Date Sampled: **07/13/23 14:29**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGG0438	07/14/23	07/15/23	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: **07/13/23 14:29**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	12.9	96.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.2	99.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.7	95.1 %	21-167		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Date Sampled: **07/13/23 14:29**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzo (a) anthracene	ND	0.100	ug/l	1	BGG0471	07/17/23	07/19/23	EPA 8270D SIM	
1-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **07/13/23 14:29**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.26	63.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.55	77.3 %	40-150		"	"	"	"	

**Dissolved Metals by EPA Method 200.8**

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
07/20/23 09:04

**BH01**  
**2307230-13 (Water)**

**Summit Scientific**

**Dissolved Metals by EPA Method 200.8**

Date Sampled: **07/13/23 14:29**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Lead	2.20	0.500	ug/l	1	BGG0449	07/14/23	07/17/23	EPA 200.8	

**Anions by EPA Method 300.0**

Date Sampled: **07/13/23 14:29**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	49.2	12.0	mg/L	200	BGG0428	07/14/23	07/14/23	EPA 300.0	
Sulfate	200	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **07/13/23 14:29**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	707	10.0	mg/L	1	BGG0434	07/14/23	07/14/23	SM2540C	

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
07/20/23 09:04

**BH04**  
**2307230-14 (Water)**

**Summit Scientific**

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

Date Sampled: **07/13/23 14:57**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGG0438	07/14/23	07/15/23	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: **07/13/23 14:57**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	12.9	96.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.4	101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.9	96.5 %	21-167		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Date Sampled: **07/13/23 14:57**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzo (a) anthracene	ND	0.100	ug/l	1	BGG0471	07/17/23	07/19/23	EPA 8270D SIM	
1-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **07/13/23 14:57**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.34	67.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.49	74.7 %	40-150		"	"	"	"	

**Dissolved Metals by EPA Method 200.8**

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
07/20/23 09:04

**BH04**  
**2307230-14 (Water)**

**Summit Scientific**

**Dissolved Metals by EPA Method 200.8**

Date Sampled: **07/13/23 14:57**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Lead	10.1	0.500	ug/l	1	BGG0449	07/14/23	07/17/23	EPA 200.8	

**Anions by EPA Method 300.0**

Date Sampled: **07/13/23 14:57**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	37.4	12.0	mg/L	200	BGG0428	07/14/23	07/14/23	EPA 300.0	
Sulfate	129	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **07/13/23 14:57**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	814	10.0	mg/L	1	BGG0434	07/14/23	07/14/23	SM2540C	

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
07/20/23 09:04

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

### Summit Scientific

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

#### Batch BGG0438 - EPA 5030 Water MS

##### Blank (BGG0438-BLK1)

Prepared & Analyzed: 07/14/23

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	14.0		"	13.3		105	23-173			
Surrogate: Toluene-d8	13.5		"	13.3		101	20-170			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.5	21-167			

##### LCS (BGG0438-BS1)

Prepared & Analyzed: 07/14/23

Benzene	34.5	1.0	ug/l	33.3		103	51-132			
Toluene	37.5	1.0	"	33.3		113	51-138			
Ethylbenzene	36.2	1.0	"	33.3		109	58-146			
m,p-Xylene	73.6	2.0	"	66.7		110	57-144			
o-Xylene	34.9	1.0	"	33.3		105	53-146			
Naphthalene	42.0	1.0	"	33.3		126	70-130			
1,2,4-Trimethylbenzene	37.2	1.0	"	33.3		112	70-130			
1,3,5-Trimethylbenzene	38.9	1.0	"	33.3		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	13.8		"	13.3		104	23-173			
Surrogate: Toluene-d8	13.4		"	13.3		100	20-170			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.8	21-167			

##### Matrix Spike (BGG0438-MS1)

Source: 2307222-01

Prepared & Analyzed: 07/14/23

Benzene	35.0	1.0	ug/l	33.3	ND	105	34-141			
Toluene	37.4	1.0	"	33.3	ND	112	27-151			
Ethylbenzene	36.1	1.0	"	33.3	ND	108	29-160			
m,p-Xylene	73.0	2.0	"	66.7	ND	109	20-166			
o-Xylene	34.6	1.0	"	33.3	ND	104	33-159			
Naphthalene	51.2	1.0	"	33.3	ND	154	70-130			QM-07
1,2,4-Trimethylbenzene	37.6	1.0	"	33.3	ND	113	70-130			
1,3,5-Trimethylbenzene	39.1	1.0	"	33.3	ND	117	70-130			
Surrogate: 1,2-Dichloroethane-d4	14.7		"	13.3		110	23-173			
Surrogate: Toluene-d8	13.5		"	13.3		101	20-170			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.9	21-167			

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
07/20/23 09:04

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

### Summit Scientific

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

#### Batch BGG0438 - EPA 5030 Water MS

Matrix Spike Dup (BGG0438-MSD1)	Source: 2307222-01			Prepared & Analyzed: 07/14/23						
Benzene	35.4	1.0	ug/l	33.3	ND	106	34-141	0.966	30	
Toluene	37.8	1.0	"	33.3	ND	114	27-151	1.28	30	
Ethylbenzene	37.0	1.0	"	33.3	ND	111	29-160	2.46	30	
m,p-Xylene	74.0	2.0	"	66.7	ND	111	20-166	1.44	30	
o-Xylene	35.4	1.0	"	33.3	ND	106	33-159	2.09	30	
Naphthalene	52.6	1.0	"	33.3	ND	158	70-130	2.72	30	QM-07
1,2,4-Trimethylbenzene	37.8	1.0	"	33.3	ND	113	70-130	0.530	30	
1,3,5-Trimethylbenzene	39.4	1.0	"	33.3	ND	118	70-130	0.942	30	
Surrogate: 1,2-Dichloroethane-d4	15.1		"	13.3		113	23-173			
Surrogate: Toluene-d8	13.6		"	13.3		102	20-170			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.0	21-167			

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**Reported:**  
07/20/23 09:04

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

### Summit Scientific

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

#### Batch BGG0471 - EPA 5030 Water MS

##### Blank (BGG0471-BLK1)

Prepared: 07/17/23 Analyzed: 07/18/23

Benzo (a) anthracene	ND	0.100	ug/l							
1-Methylnaphthalene	ND	0.500	"							
2-Methylnaphthalene	ND	0.500	"							
Surrogate: 2-Methylnaphthalene-d10	1.79		"	2.00		89.5	40-150			
Surrogate: Fluoranthene-d10	1.66		"	2.00		82.9	40-150			

##### LCS (BGG0471-BS1)

Prepared: 07/17/23 Analyzed: 07/18/23

Benzo (a) anthracene	1.60	0.100	ug/l	2.00		80.1	30-120			
1-Methylnaphthalene	1.93	0.500	"	2.00		96.4	30-120			
2-Methylnaphthalene	1.02	0.500	"	2.00		51.2	0-200			
Surrogate: 2-Methylnaphthalene-d10	2.24		"	2.00		112	40-150			
Surrogate: Fluoranthene-d10	1.83		"	2.00		91.3	40-150			

##### LCS Dup (BGG0471-BSD1)

Prepared: 07/17/23 Analyzed: 07/18/23

Benzo (a) anthracene	1.52	0.100	ug/l	2.00		75.8	30-120	5.57	30	
1-Methylnaphthalene	2.08	0.500	"	2.00		104	30-120	7.65	30	
2-Methylnaphthalene	1.04	0.500	"	2.00		51.8	0-200	1.01	200	
Surrogate: 2-Methylnaphthalene-d10	1.37		"	2.00		68.7	40-150			
Surrogate: Fluoranthene-d10	1.67		"	2.00		83.7	40-150			

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Project Number: [none]  
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**Reported:**  
07/20/23 09:04

**Dissolved Metals by EPA Method 200.8 - Quality Control**  
**Summit Scientific**

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

**Batch BGG0449 - EPA 200.8**

**Blank (BGG0449-BLK1)**

Prepared: 07/14/23 Analyzed: 07/17/23

Lead ND 0.500 ug/l

**Duplicate (BGG0449-DUP1)**

**Source: 2307195-01**

Prepared: 07/14/23 Analyzed: 07/17/23

Lead ND 0.500 ug/l 0.225 200 20 QR-01

**Matrix Spike (BGG0449-MS1)**

**Source: 2307195-01**

Prepared: 07/14/23 Analyzed: 07/17/23

Lead 241 0.500 ug/l 250 0.225 96.2 70-130

**Matrix Spike Dup (BGG0449-MSD1)**

**Source: 2307195-01**

Prepared: 07/14/23 Analyzed: 07/17/23

Lead 239 0.500 ug/l 250 0.225 95.6 70-130 0.638 25

Summit Scientific

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**Reported:**  
07/20/23 09:04

### Anions by EPA Method 300.0 - Quality Control

#### Summit Scientific

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

#### Batch BGG0428 - General Preparation

##### Blank (BGG0428-BLK1)

Prepared & Analyzed: 07/14/23

Chloride	ND	0.0600	mg/L
Sulfate	ND	0.300	"

##### LCS (BGG0428-BS1)

Prepared & Analyzed: 07/14/23

Chloride	3.16	0.0600	mg/L	3.00	105	90-110
Sulfate	16.3	0.300	"	15.0	109	90-110

##### Duplicate (BGG0428-DUP1)

Source: 2307230-01

Prepared & Analyzed: 07/14/23

Chloride	21.8	12.0	mg/L	29.8	31.0	20	QR-04
Sulfate	128	60.0	"	130	1.39	20	

##### Matrix Spike (BGG0428-MS1)

Source: 2307230-01

Prepared & Analyzed: 07/14/23

Chloride	626	12.0	mg/L	600	29.8	99.3	80-120
Sulfate	3040	60.0	"	3000	130	96.8	80-120

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Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
07/20/23 09:04

**Total Dissolved Solids by SM2540C - Quality Control**  
**Summit Scientific**

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

**Batch BGG0434 - General Preparation**

**Blank (BGG0434-BLK1)**

Prepared & Analyzed: 07/14/23

Total Dissolved Solids ND 10.0 mg/L

**Duplicate (BGG0434-DUP1)**

Source: 2307230-01

Prepared & Analyzed: 07/14/23

Total Dissolved Solids 292 10.0 mg/L 285 2.43 20

Summit Scientific

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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]  
Project Manager: Sam Vogt

**Reported:**  
07/20/23 09:04

### Notes and Definitions

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.
QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
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