

Culver 5-17 Tank Battery

SWNE Sec. 17-T1N-R69W

Remediation Project #: 22770

Second Quarter 2023 Quarterly Report

June 2023

Prepared by Tasman, Inc.



On behalf of Extraction Oil and Gas, Inc.



BORING LOGS



TASMAN

6855 W. 119th Ave
Broomfield, CO 80020

CLIENT: Extraction Oil & Gas, Inc.	SITE NAME: Culver 5-17 Tank Battery Remediation Project #: 22770
LOGGED BY: Chris Girardi	SOIL BORING ID: BG01
PROJECT MANAGER: Sam Vogt	LOCATION: SWNE Sec. 17-T1N-R69W
DRILLING CONTRACTOR: Tasman, Inc.	LATITUDE (WGS 84): 40.05262738
DRILLING EQUIPMENT: Hand Auger/Geoprobe 3162 GT	LONGITUDE (WGS 84): -105.13741765
DRILL BIT SIZE (INCHES): 3" / 2.375"	TOTAL WELL DEPTH (FT. BGS): 20
DATE STARTED - COMPLETED: 6/28/23 - 6/28/23	DEPTH TO WATER (FT. BGS): 6 ▼

Depth (feet)	Drill Tooling	% Rec. 25 50 75	Lithologic Description	USCS	PID (ppm) 100 1000	Lab	Well Construction	Depth (feet)
0			Brown, Clay and sand, non-plastic, slightly moist, no HC stain/odor					0
1								
2								
3			Same as above, medium dense, dry, no HC stain/odor	CL				
4								
5			Tan, Clay with poorly-graded sand, soft, highly plastic, wet, no HC stain/odor	CH				5
6								
7								
8			Tan, Poorly-graded Sand and gravel, medium dense, wet, no HC stain/odor					
9								
10								10
11								
12								
13								
14				SP				
15								15
16								
17								
18								
19								
20								20

Drilling / Sample Method:

- Direct Push Technology
- Grab Sample
- Hydrovac
- Hand Auger

Laboratory Sample Types:

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



TASMAN

6855 W. 119th Ave
Broomfield, CO 80020

CLIENT: Extraction Oil & Gas, Inc.	SITE NAME: Culver 5-17 Tank Battery Remediation Project #: 22770
LOGGED BY: Chris Girardi	SOIL BORING ID: BG02
PROJECT MANAGER: Sam Vogt	LOCATION: SWNE Sec. 17-T1N-R69W
DRILLING CONTRACTOR: Tasman, Inc.	LATITUDE (WGS 84): 40.0527635
DRILLING EQUIPMENT: Geoprobe 3162 GT	LONGITUDE (WGS 84): -105.13751471
DRILL BIT SIZE (INCHES): 2.375"	TOTAL WELL DEPTH (FT. BGS): 20
DATE STARTED - COMPLETED: 6/28/23 - 6/28/23	DEPTH TO WATER (FT. BGS): 13 ▼

Depth (feet)	Drill Tooling	% Rec. 25 50 75	Lithologic Description	USCS	PID (ppm) 100 1000	Lab	Well Construction	Depth (feet)
0			Brown, Clay and sand, stiff, non-plastic, slightly moist, no HC stain/odor					0
1								
2								
3				CL				
4								
5			Brown, Clay with trace silty sand, soft, medium to high plasticity, moist, no HC stain/odor					5
6								
7								
8								
9				CH				
10			Same as above, increased sand content, no HC stain/odor					10
11								
12								
13			Brown, Poorly-graded Sand and clay with little gravel, coarse grained, loose, wet, non-plastic, no HC stain/odor	SC				
14								
15			Brown, Poorly-graded Sand and gravel, loose, wet, no HC stain/odor	SP				15
16								
17								
18								
19								
20								20

Drilling / Sample Method:

Direct Push Technology
Grab Sample
Hydrovac
Hand Auger

Laboratory Sample Types:

Geotechnical Lab
Analytical Chemistry Lab
Geotechnical & Analytical Chemistry Lab



TASMAN

6855 W. 119th Ave
Broomfield, CO 80020

CLIENT: Extraction Oil & Gas, Inc.	SITE NAME: Culver 5-17 Tank Battery Remediation Project #: 22770
LOGGED BY: Chris Girardi	SOIL BORING ID: BG03
PROJECT MANAGER: Sam Vogt	LOCATION: SWNE Sec. 17-T1N-R69W
DRILLING CONTRACTOR: Tasman, Inc.	LATITUDE (WGS 84): 40.05268499
DRILLING EQUIPMENT: Geoprobe 3162 GT	LONGITUDE (WGS 84): -105.13808532
DRILL BIT SIZE (INCHES): 2.375"	TOTAL WELL DEPTH (FT. BGS): 20
DATE STARTED - COMPLETED: 6/28/23 - 6/28/23	DEPTH TO WATER (FT. BGS): 10 ▼

Depth (feet)	Drill Tooling	% Rec. 25 50 75	Lithologic Description	USCS	PID (ppm)		Lab	Well Construction	Depth (feet)
					100	1000			
0			Light brown, Clay and sand, soft, non-plastic, dry, no HC/odor						0
1									
2									
3									
4									
5			Same as above, Dark brown, low plasticity, slightly moist, no HC stain/odor	CL					5
6									
7									
8									
9									
10			Same as above, wet, no HC stain/odor						10
11			Tan, Poorly-graded Sand with clay, medium grained, medium dense, medium plasticity, wet, no HC stain/odor	SC					
12			Tan, Poorly-graded Sand and gravel, coarse grained, very loose, wet, no HC stain/odor						
13									
14									
15									15
16				SP					
17									
18									
19									
20									20

Drilling / Sample Method:

Direct Push Technology
Grab Sample
Hydrovac
Hand Auger

Laboratory Sample Types:

Geotechnical Lab
Analytical Chemistry Lab
Geotechnical & Analytical Chemistry Lab



TASMAN

6855 W. 119th Ave
Broomfield, CO 80020

CLIENT: Extraction Oil & Gas, Inc.	SITE NAME: Culver 5-17 Tank Battery Remediation Project #: 22770
LOGGED BY: Chris Girardi	SOIL BORING ID: BG04
PROJECT MANAGER: Sam Vogt	LOCATION: SWNE Sec. 17-T1N-R69W
DRILLING CONTRACTOR: Tasman, Inc.	LATITUDE (WGS 84): 40.05233305
DRILLING EQUIPMENT: Geoprobe 3162 GT	LONGITUDE (WGS 84): -105.13835604
DRILL BIT SIZE (INCHES): 2.375"	TOTAL WELL DEPTH (FT. BGS): 20
DATE STARTED - COMPLETED: 6/28/23 - 6/28/23	DEPTH TO WATER (FT. BGS): 10 ▼

Depth (feet)	Drill Tooling	% Rec. 25 50 75	Lithologic Description	USCS	PID (ppm) 100 1000	Lab	Well Construction	Depth (feet)
0			Brown, Clay and sand, soft, non-plastic, dry, no HC stain/odor					0
1								
2								
3								
4				CL				
5			Same as above, medium plasticity, moist, no HC stain/odor					5
6								
7								
8								
9			Brown, Well-graded Sand, fine to medium grained, very loose, moist, no HC stain/odor	SW				
10			Tan, Clay and poorly-graded sand, soft, low plasticity, medium grained, wet, no HC stain/odor	SC			▼	10
11								
12								
13			Tan, Poorly-graded Sand and gravel, coarse grained, loose, wet, no HC stain/odor	SP				
14								
15								15
16								
17								
18								
19								
20								20

Drilling / Sample Method:

Direct Push Technology
Grab Sample
Hydrovac
Hand Auger

Laboratory Sample Types:

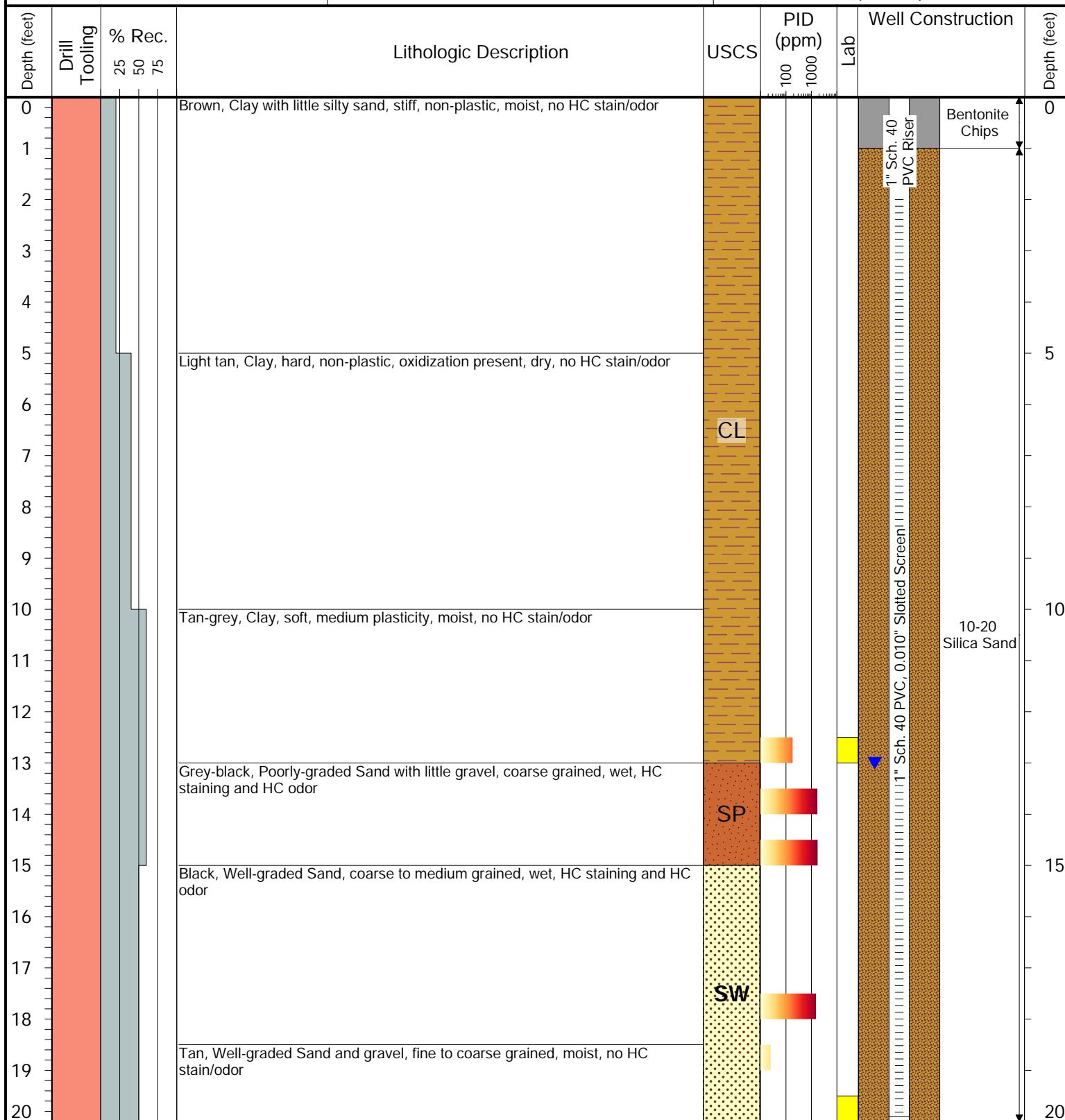
Geotechnical Lab
Analytical Chemistry Lab
Geotechnical & Analytical Chemistry Lab



TASMAN

6855 W. 119th Ave
Broomfield, CO 80020

CLIENT: Extraction Oil & Gas, Inc.	SITE NAME: Culver 5-17 Tank Battery Remediation Project #: 22770
LOGGED BY: Chris Girardi	SOIL BORING ID: MW01
PROJECT MANAGER: Sam Vogt	LOCATION: SWNE Sec. 17-T1N-R69W
DRILLING CONTRACTOR: Tasman, Inc.	LATITUDE (WGS 84): 40.052564
DRILLING EQUIPMENT: Geoprobe 3162 GT	LONGITUDE (WGS 84): -105.137981
DRILL BIT SIZE (INCHES): 2.375"	TOTAL WELL DEPTH (FT. BGS): 20
DATE STARTED - COMPLETED: 6/26/23 - 6/26/23	DEPTH TO WATER (FT. BGS): 13 ▼



Drilling / Sample Method:

Direct Push Technology
 Grab Sample
 Hydrovac
 Hand Auger

Laboratory Sample Types:

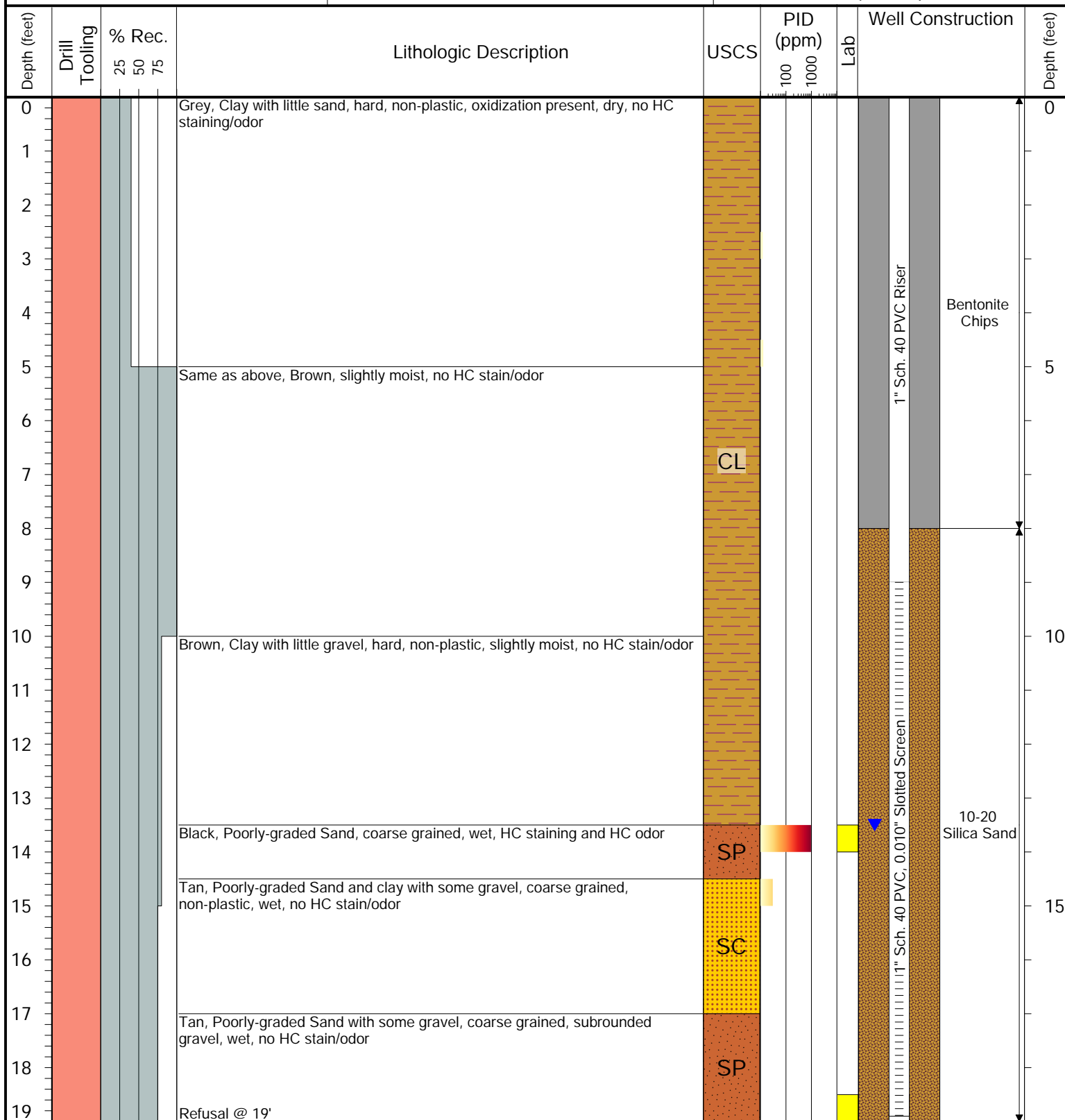
Geotechnical Lab
 Analytical Chemistry Lab
 Geotechnical & Analytical Chemistry Lab



TASMAN

6855 W. 119th Ave
Broomfield, CO 80020

CLIENT: Extraction Oil & Gas, Inc.	SITE NAME: Culver 5-17 Tank Battery Remediation Project #: 22770
LOGGED BY: Chris Girardi	SOIL BORING ID: MW02
PROJECT MANAGER: Sam Vogt	LOCATION: SWNE Sec. 17-T1N-R69W
DRILLING CONTRACTOR: Tasman, Inc.	LATITUDE (WGS 84): 40.05259
DRILLING EQUIPMENT: Geoprobe 3162 GT	LONGITUDE (WGS 84): -105.137845
DRILL BIT SIZE (INCHES): 2.375"	TOTAL WELL DEPTH (FT. BGS): 19
DATE STARTED - COMPLETED: 6/26/23 - 6/26/23	DEPTH TO WATER (FT. BGS): 13.5 ▼



Drilling / Sample Method:

Direct Push Technology
 Grab Sample
 Hydrovac
 Hand Auger

Laboratory Sample Types:

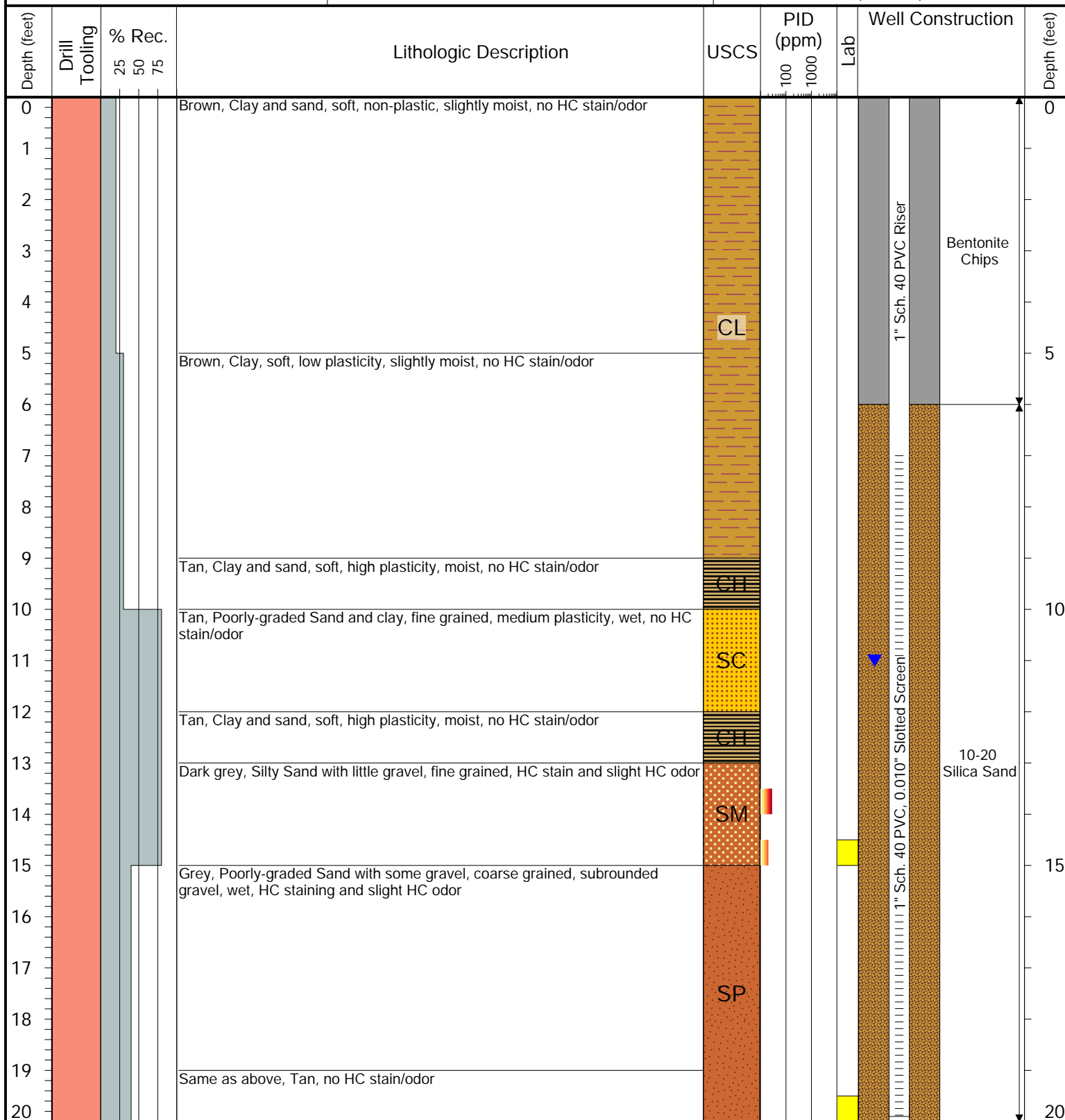
Geotechnical Lab
 Analytical Chemistry Lab
 Geotechnical & Analytical Chemistry Lab



TASMAN

6855 W. 119th Ave
Broomfield, CO 80020

CLIENT: Extraction Oil & Gas, Inc.	SITE NAME: Culver 5-17 Tank Battery Remediation Project #: 22770
LOGGED BY: Chris Girardi	SOIL BORING ID: MW03
PROJECT MANAGER: Sam Vogt	LOCATION: SWNE Sec. 17-T1N-R69W
DRILLING CONTRACTOR: Tasman, Inc.	LATITUDE (WGS 84): 40.052675
DRILLING EQUIPMENT: Geoprobe 3162 GT	LONGITUDE (WGS 84): -105.137921
DRILL BIT SIZE (INCHES): 2.375"	TOTAL WELL DEPTH (FT. BGS): 20
DATE STARTED - COMPLETED: 6/26/23 - 6/26/23	DEPTH TO WATER (FT. BGS): 11



Drilling / Sample Method:

Direct Push Technology
 Grab Sample
 Hydrovac
 Hand Auger

Laboratory Sample Types:

Geotechnical Lab
 Analytical Chemistry Lab
 Geotechnical & Analytical Chemistry Lab



TASMAN

6855 W. 119th Ave
Broomfield, CO 80020

CLIENT:
Extraction Oil & Gas, Inc.

LOGGED BY: Chris Girardi

PROJECT MANAGER: Sam Vogt

DRILLING CONTRACTOR: Tasman, Inc.

DRILLING EQUIPMENT:
Geoprobe 3162 GT

DRILL BIT SIZE (INCHES): 2.375"

DATE STARTED - COMPLETED: 6/26/23 - 6/27/23

SITE NAME:
Culver 5-17 Tank Battery
Remediation Project #: 22770

SOIL BORING ID: MW04

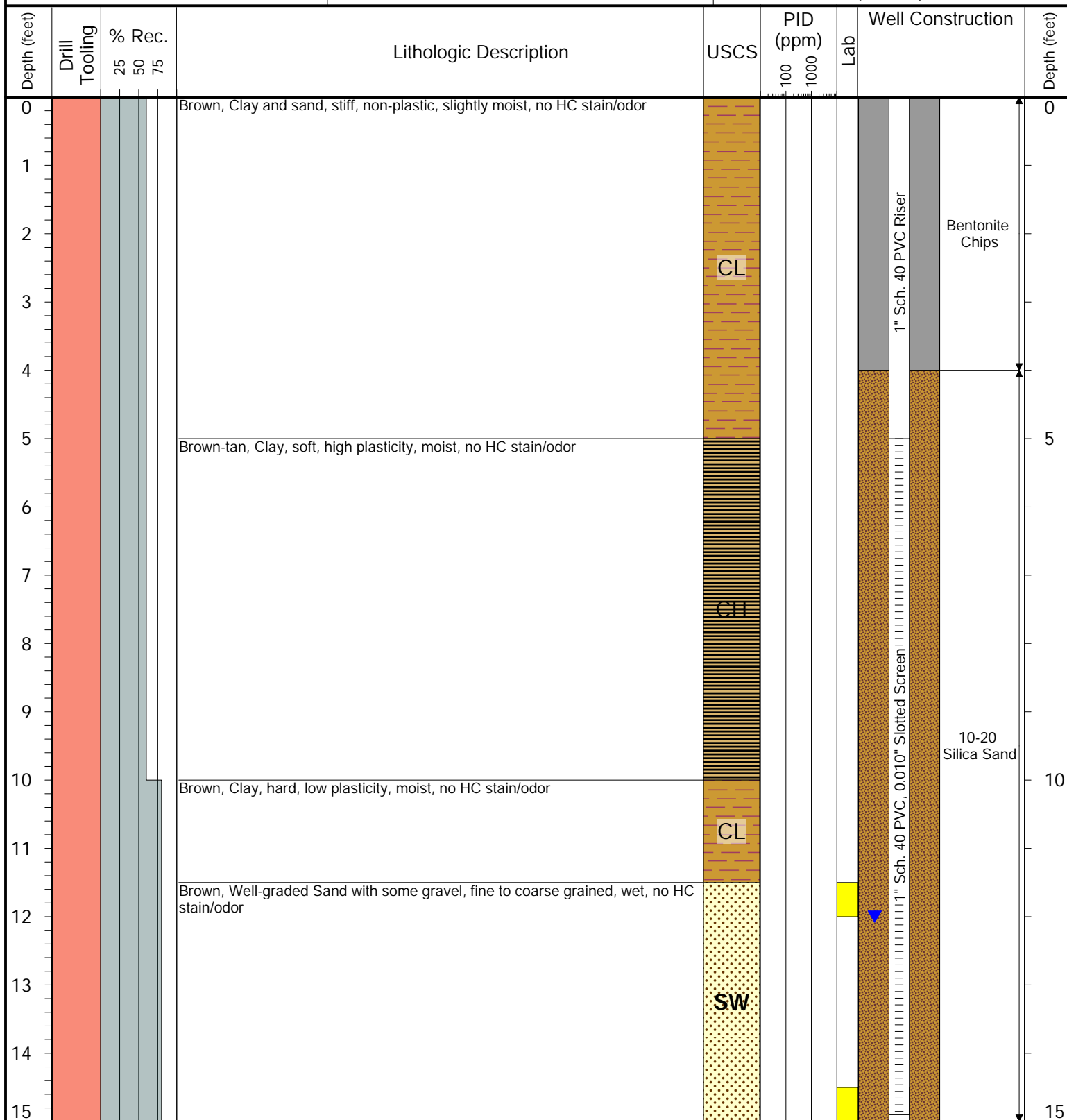
LOCATION: SWNE Sec. 17-T1N-R69W

LATITUDE (WGS 84): 40.052704

LONGITUDE (WGS 84): -105.137716

TOTAL WELL DEPTH (FT. BGS): 15

DEPTH TO WATER (FT. BGS): 12 ▼



Drilling / Sample Method:

Direct Push Technology
 Grab Sample

Hydrovac
 Hand Auger

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

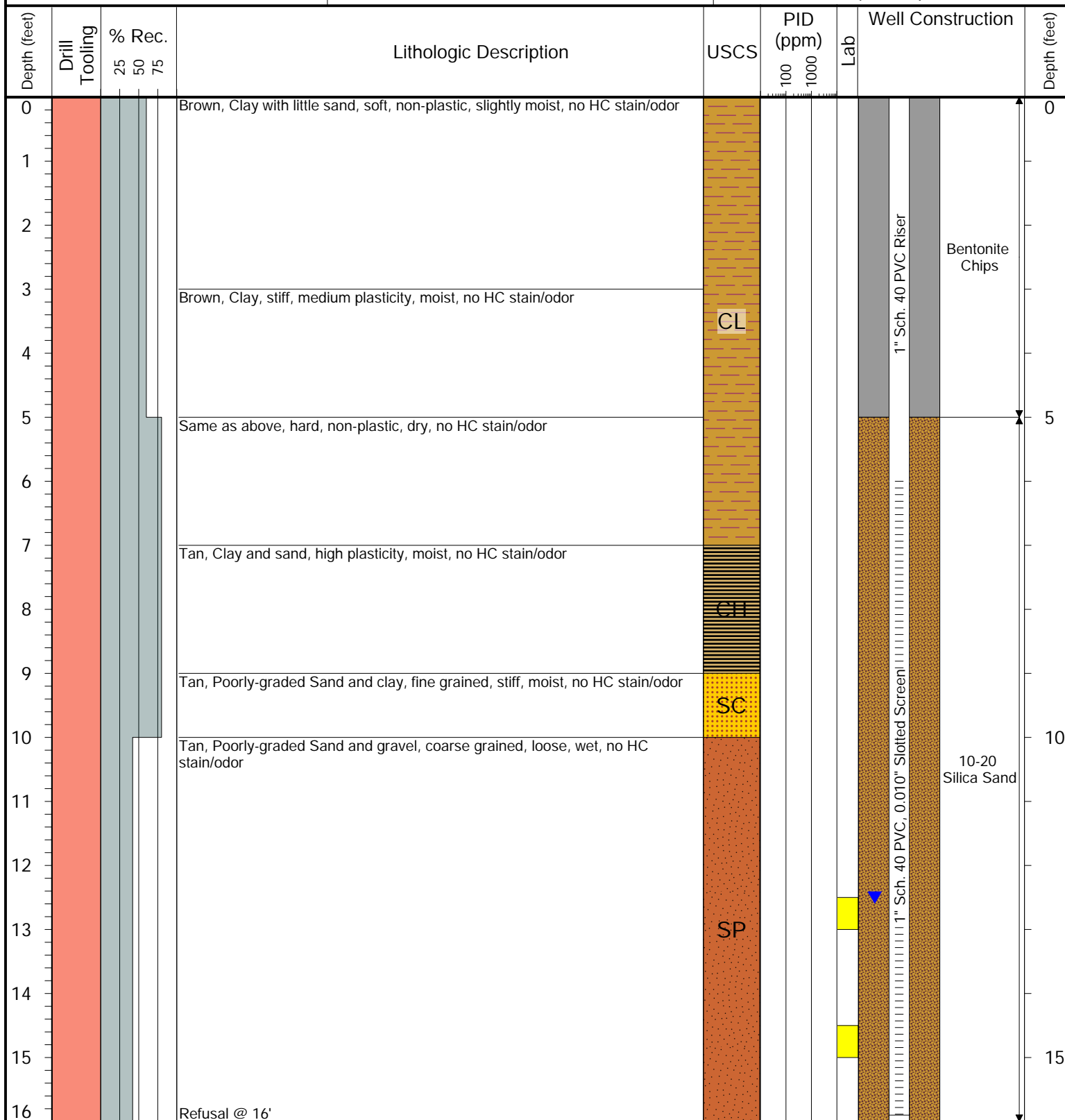
Geotechnical & Analytical Chemistry Lab



TASMAN

6855 W. 119th Ave
Broomfield, CO 80020

CLIENT: Extraction Oil & Gas, Inc.	SITE NAME: Culver 5-17 Tank Battery Remediation Project #: 22770
LOGGED BY: Chris Girardi	SOIL BORING ID: MW05
PROJECT MANAGER: Sam Vogt	LOCATION: SWNE Sec. 17-T1N-R69W
DRILLING CONTRACTOR: Tasman, Inc.	LATITUDE (WGS 84): 40.052609
DRILLING EQUIPMENT: Geoprobe 3162 GT	LONGITUDE (WGS 84): -105.137666
DRILL BIT SIZE (INCHES): 2.375"	TOTAL WELL DEPTH (FT. BGS): 16
DATE STARTED - COMPLETED: 6/27/23 - 6/27/23	DEPTH TO WATER (FT. BGS): 12.5 ▼



Drilling / Sample Method:

- Direct Push Technology
- Grab Sample
- Hydrovac
- Hand Auger

Laboratory Sample Types:

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



TASMAN

6855 W. 119th Ave
Broomfield, CO 80020

CLIENT:
Extraction Oil & Gas, Inc.

LOGGED BY: Chris Girardi

PROJECT MANAGER: Sam Vogt

DRILLING CONTRACTOR: Tasman, Inc.

DRILLING EQUIPMENT:
Geoprobe 3162 GT

DRILL BIT SIZE (INCHES): 2.375"

DATE STARTED - COMPLETED: 6/27/23 - 6/27/23

SITE NAME:
Culver 5-17 Tank Battery
Remediation Project #: 22770

SOIL BORING ID: MW06

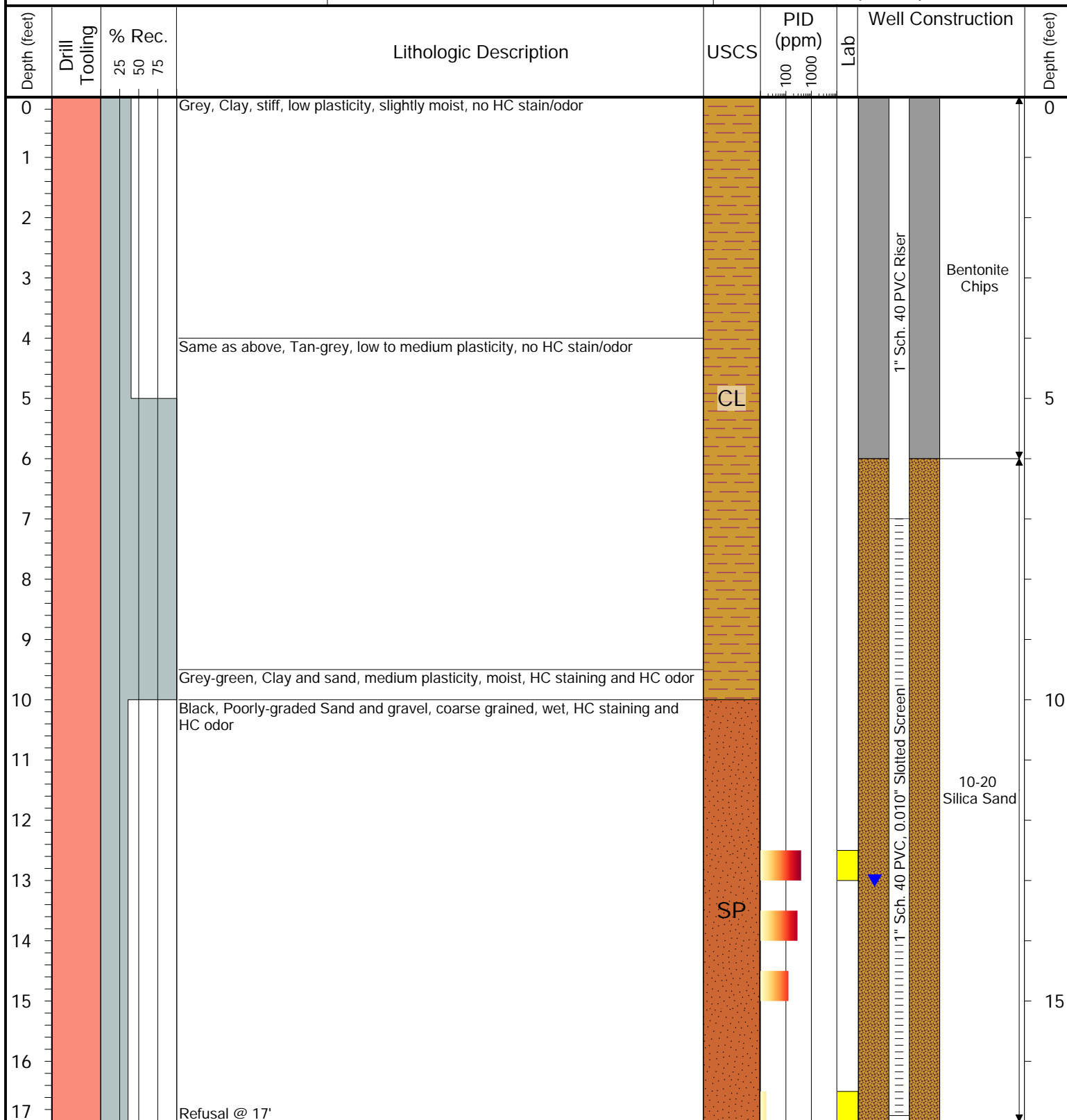
LOCATION: SWNE Sec. 17-T1N-R69W

LATITUDE (WGS 84): 40.05253

LONGITUDE (WGS 84): -105.137808

TOTAL WELL DEPTH (FT. BGS): 17

DEPTH TO WATER (FT. BGS): 13



Drilling / Sample Method:

Direct Push Technology
Grab Sample
Hydrovac
Hand Auger

Laboratory Sample Types:

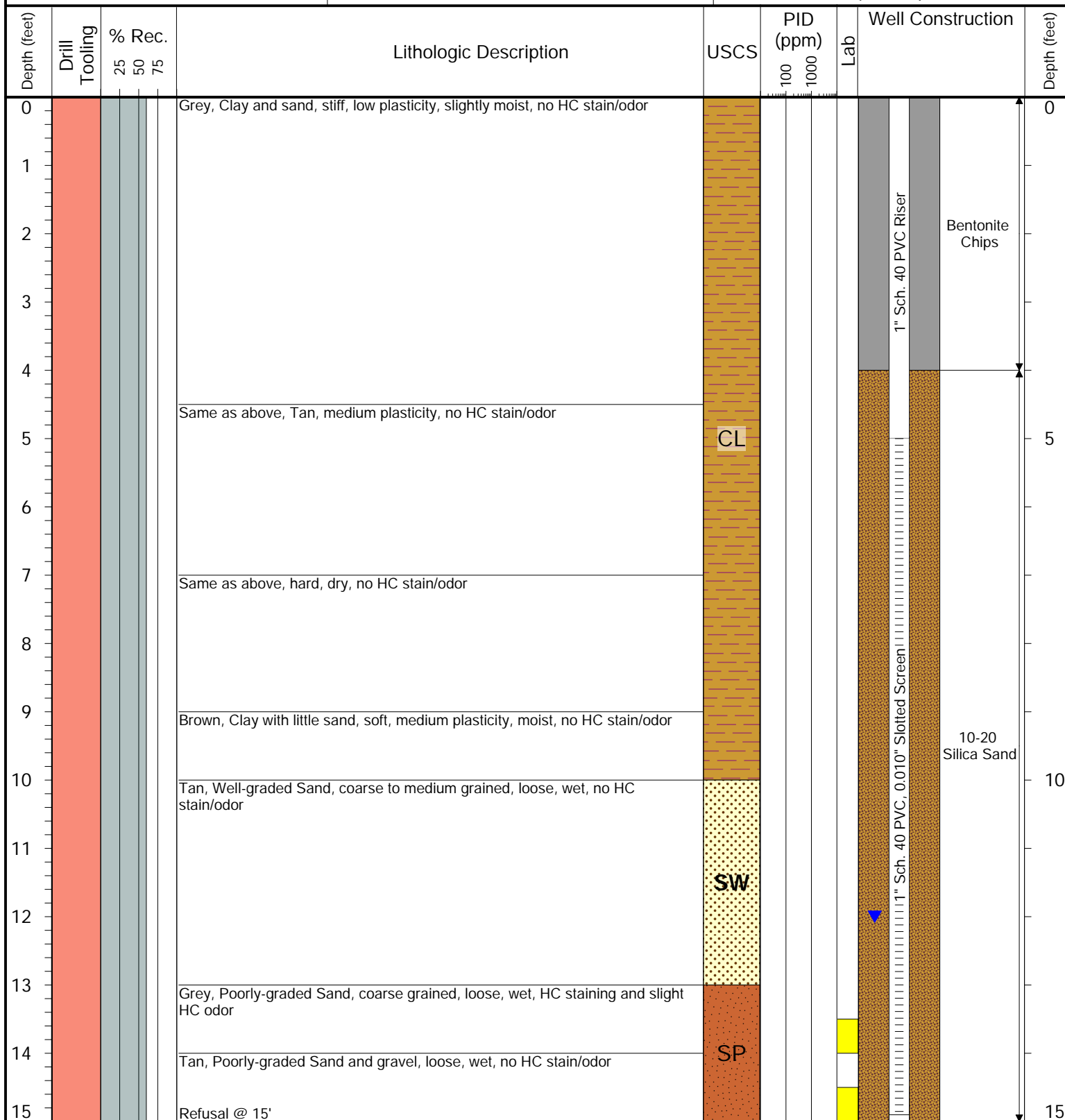
Geotechnical Lab
Analytical Chemistry Lab
Geotechnical & Analytical Chemistry Lab



TASMAN

6855 W. 119th Ave
Broomfield, CO 80020

CLIENT: Extraction Oil & Gas, Inc.	SITE NAME: Culver 5-17 Tank Battery Remediation Project #: 22770
LOGGED BY: Chris Girardi	SOIL BORING ID: MW07
PROJECT MANAGER: Sam Vogt	LOCATION: SWNE Sec. 17-T1N-R69W
DRILLING CONTRACTOR: Tasman, Inc.	LATITUDE (WGS 84): 40.052463
DRILLING EQUIPMENT: Geoprobe 3162 GT	LONGITUDE (WGS 84): -105.137925
DRILL BIT SIZE (INCHES): 2.375"	TOTAL WELL DEPTH (FT. BGS): 15
DATE STARTED - COMPLETED: 6/27/23 - 6/27/23	DEPTH TO WATER (FT. BGS): 12 ▼



Drilling / Sample Method:

Direct Push Technology
 Grab Sample
 Hydrovac
 Hand Auger

Laboratory Sample Types:

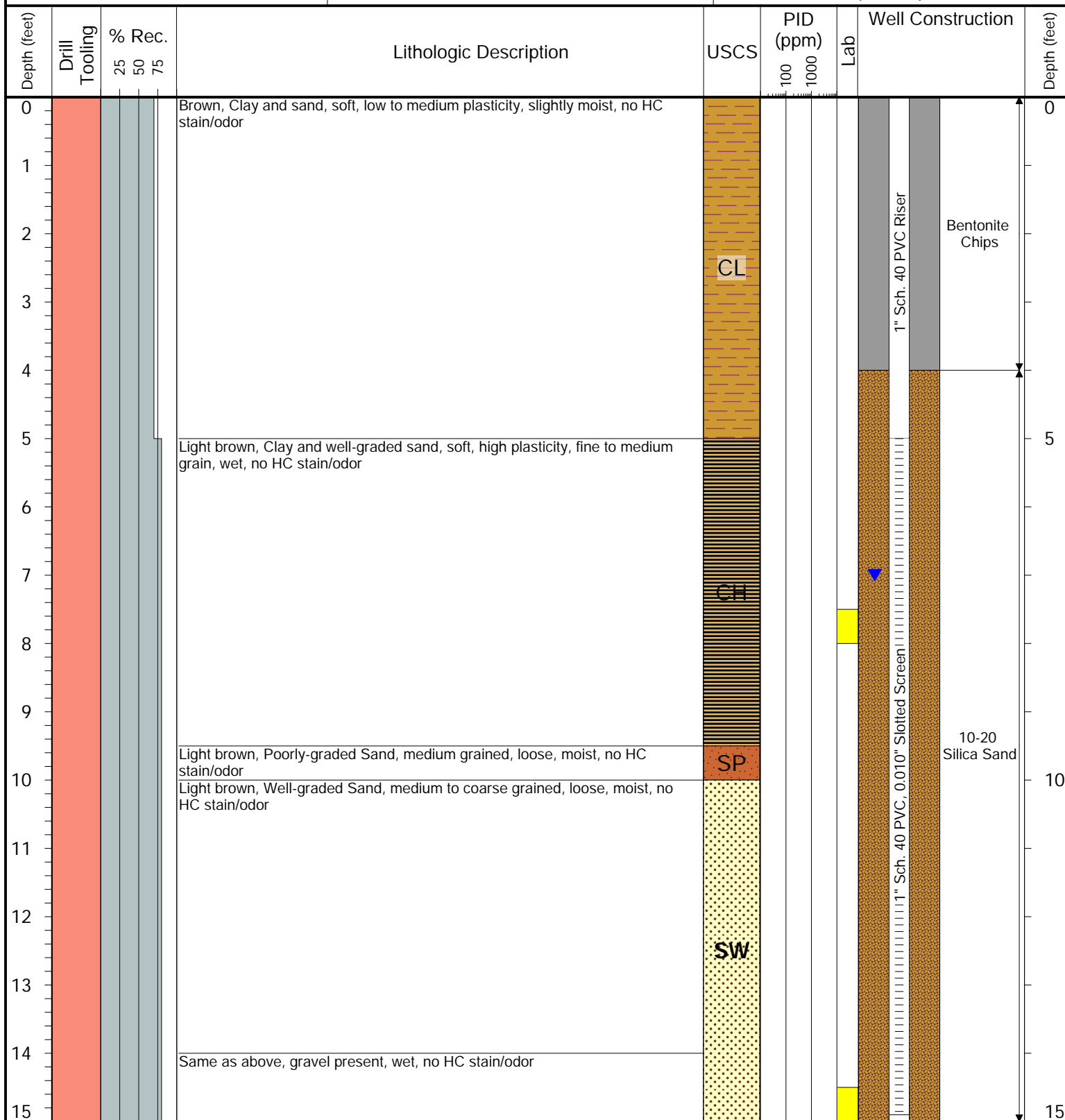
Geotechnical Lab
 Analytical Chemistry Lab
 Geotechnical & Analytical Chemistry Lab



TASMAN

6855 W. 119th Ave
Broomfield, CO 80020

CLIENT: Extraction Oil & Gas, Inc.	SITE NAME: Culver 5-17 Tank Battery Remediation Project #: 22770
LOGGED BY: Chris Girardi	SOIL BORING ID: MW08
PROJECT MANAGER: Sam Vogt	LOCATION: SWNE Sec. 17-T1N-R69W
DRILLING CONTRACTOR: Tasman, Inc.	LATITUDE (WGS 84): 40.052357
DRILLING EQUIPMENT: Geoprobe 3162 GT	LONGITUDE (WGS 84): -105.138031
DRILL BIT SIZE (INCHES): 2.375"	TOTAL WELL DEPTH (FT. BGS): 15
DATE STARTED - COMPLETED: 6/28/23 - 6/28/23	DEPTH TO WATER (FT. BGS): 7



Drilling / Sample Method:

Direct Push Technology
 Grab Sample
 Hydrovac
 Hand Auger

Laboratory Sample Types:

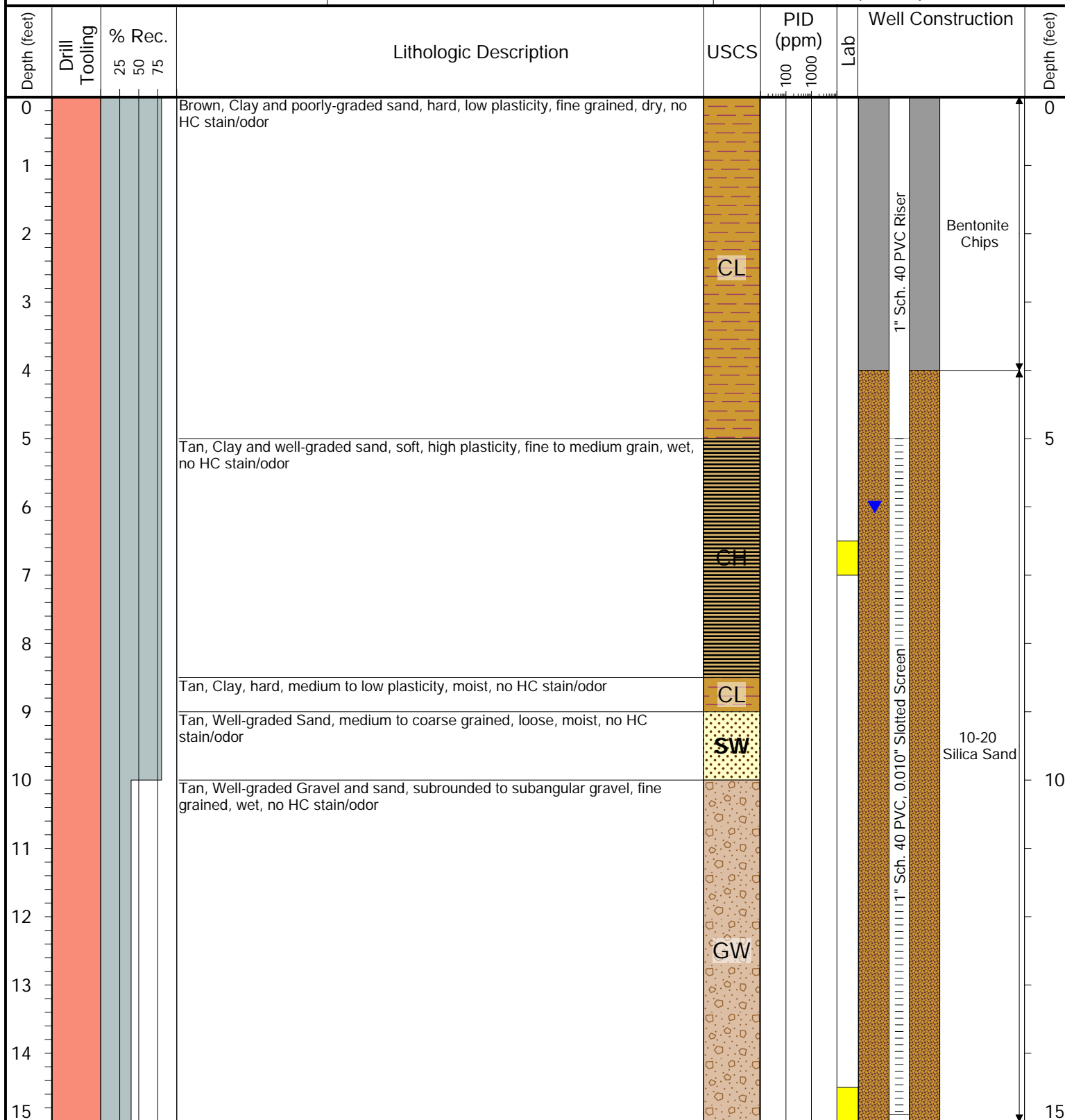
Geotechnical Lab
 Analytical Chemistry Lab
 Geotechnical & Analytical Chemistry Lab



TASMAN

6855 W. 119th Ave
Broomfield, CO 80020

CLIENT: Extraction Oil & Gas, Inc.	SITE NAME: Culver 5-17 Tank Battery Remediation Project #: 22770
LOGGED BY: Chris Girardi	SOIL BORING ID: MW09
PROJECT MANAGER: Sam Vogt	LOCATION: SWNE Sec. 17-T1N-R69W
DRILLING CONTRACTOR: Tasman, Inc.	LATITUDE (WGS 84): 40.052333
DRILLING EQUIPMENT: Geoprobe 3162 GT	LONGITUDE (WGS 84): -105.137812
DRILL BIT SIZE (INCHES): 2.375"	TOTAL WELL DEPTH (FT. BGS): 15
DATE STARTED - COMPLETED: 6/28/23 - 6/28/23	DEPTH TO WATER (FT. BGS): 6 ▼



Drilling / Sample Method:

Direct Push Technology
 Grab Sample
 Hydrovac
 Hand Auger

Laboratory Sample Types:

Geotechnical Lab
 Analytical Chemistry Lab
 Geotechnical & Analytical Chemistry Lab



TASMAN

6855 W. 119th Ave
Broomfield, CO 80020

CLIENT:
Extraction Oil & Gas, Inc.

LOGGED BY: Chris Girardi

PROJECT MANAGER: Sam Vogt

DRILLING CONTRACTOR: Tasman, Inc.

DRILLING EQUIPMENT:
Geoprobe 3162 GT

DRILL BIT SIZE (INCHES): 2.375"

DATE STARTED - COMPLETED: 6/28/23 - 6/28/23

SITE NAME:
Culver 5-17 Tank Battery
Remediation Project #: 22770

SOIL BORING ID: MW10

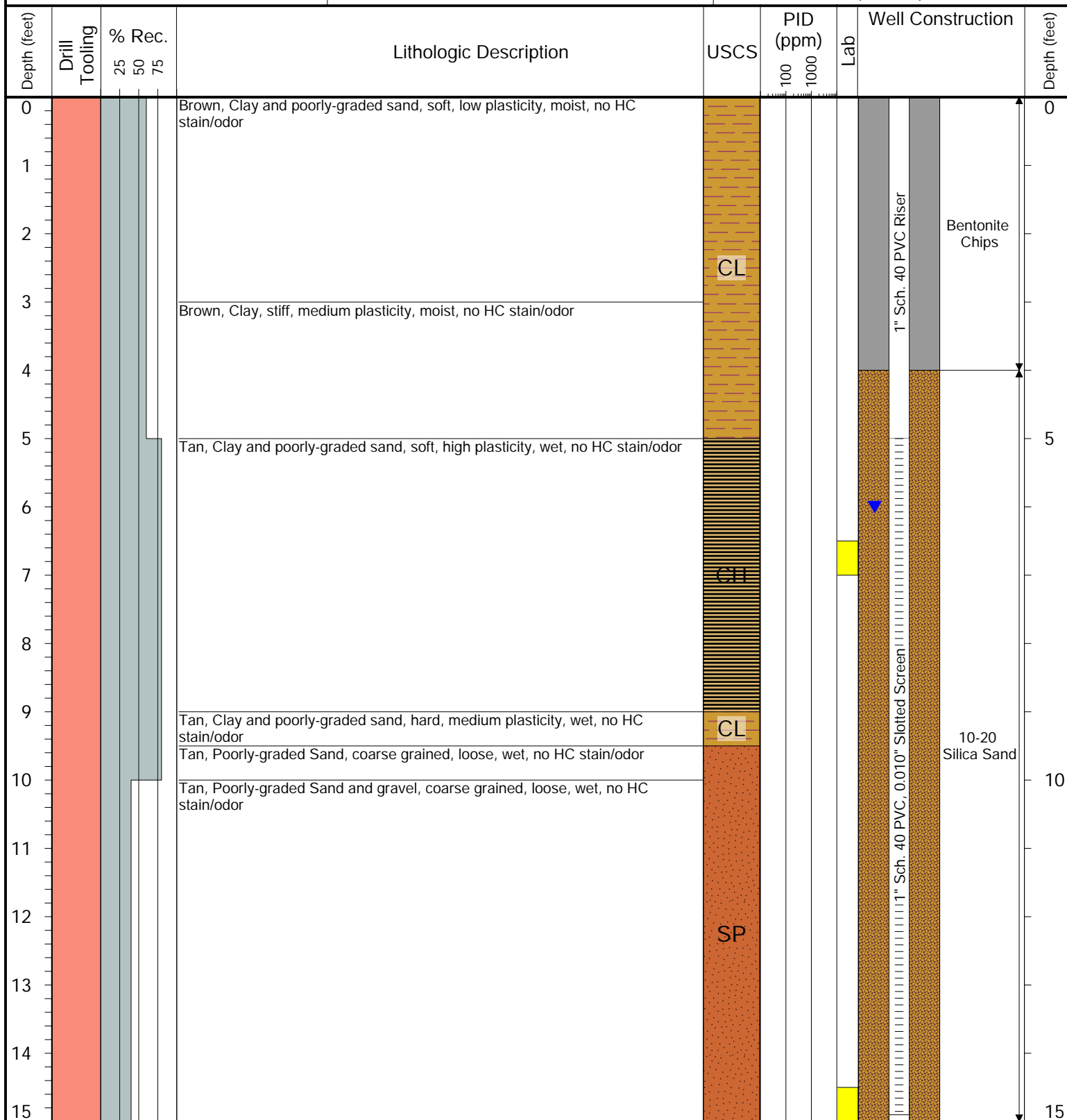
LOCATION: SWNE Sec. 17-T1N-R69W

LATITUDE (WGS 84): 40.052413

LONGITUDE (WGS 84): -105.137795

TOTAL WELL DEPTH (FT. BGS): 15

DEPTH TO WATER (FT. BGS): 6



Drilling / Sample Method:

Direct Push Technology
 Grab Sample
 Hydrovac
 Hand Auger

Laboratory Sample Types:

Geotechnical Lab
 Analytical Chemistry Lab
 Geotechnical & Analytical Chemistry Lab



TASMAN

6855 W. 119th Ave
Broomfield, CO 80020

CLIENT:
Extraction Oil & Gas, Inc.

LOGGED BY: Chris Girardi

PROJECT MANAGER: Sam Vogt

DRILLING CONTRACTOR: Tasman, Inc.

DRILLING EQUIPMENT:
Geoprobe 3162 GT

DRILL BIT SIZE (INCHES): 2.375"

DATE STARTED - COMPLETED: 6/28/23 - 6/28/23

SITE NAME:
Culver 5-17 Tank Battery
Remediation Project #: 22770

SOIL BORING ID: MW11

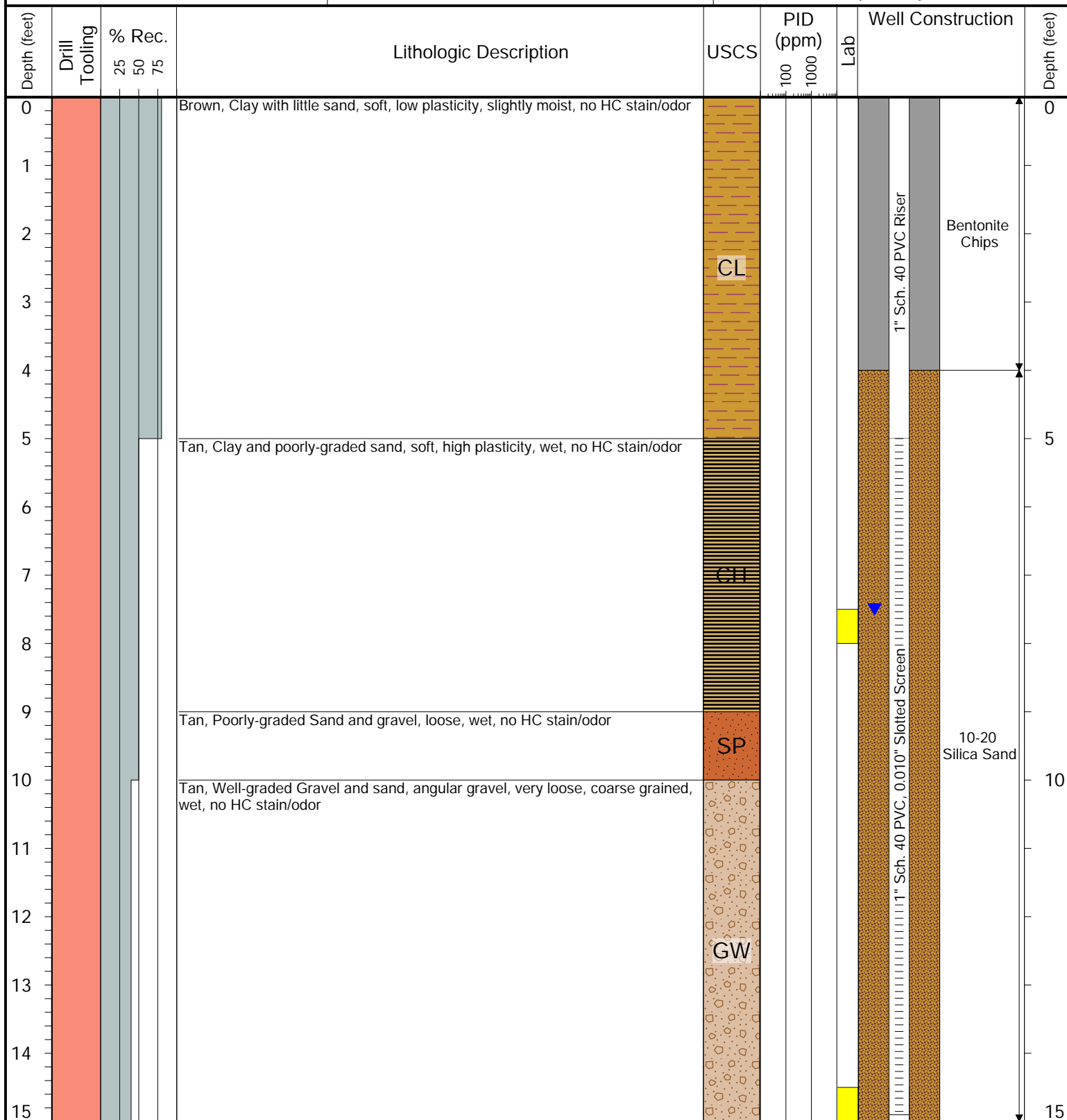
LOCATION: SWNE Sec. 17-T1N-R69W

LATITUDE (WGS 84): 40.052426

LONGITUDE (WGS 84): -105.137663

TOTAL WELL DEPTH (FT. BGS): 15

DEPTH TO WATER (FT. BGS): 7.5



Drilling / Sample Method:

Direct Push Technology
Grab Sample

Hydrovac
Hand Auger

Laboratory Sample Types:

Geotechnical Lab
Analytical Chemistry Lab

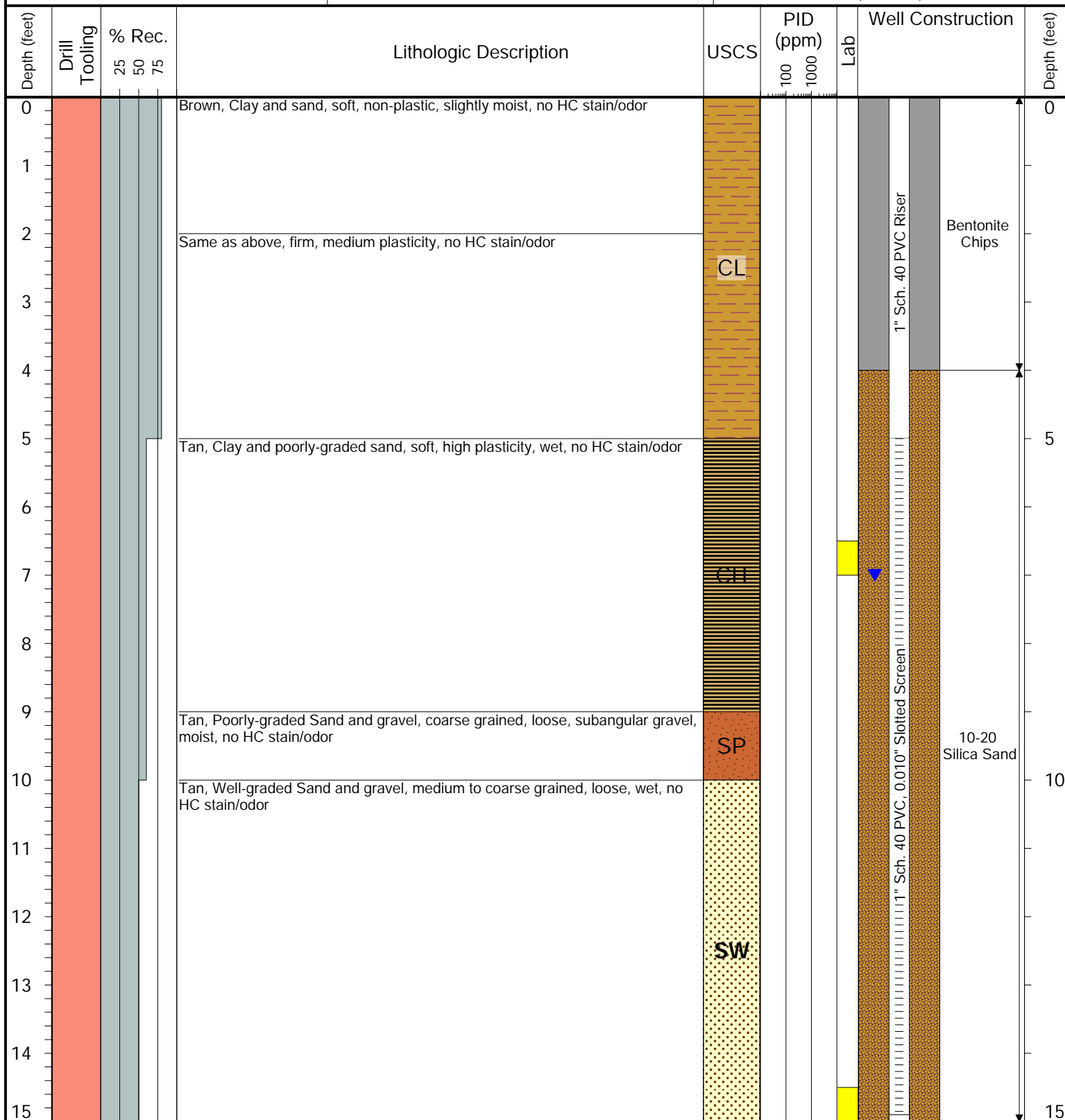
Geotechnical & Analytical Chemistry Lab



TASMAN

6855 W. 119th Ave
Broomfield, CO 80020

CLIENT: Extraction Oil & Gas, Inc.	SITE NAME: Culver 5-17 Tank Battery Remediation Project #: 22770
LOGGED BY: Chris Girardi	SOIL BORING ID: MW12
PROJECT MANAGER: Sam Vogt	LOCATION: SWNE Sec. 17-T1N-R69W
DRILLING CONTRACTOR: Tasman, Inc.	LATITUDE (WGS 84): 40.052518
DRILLING EQUIPMENT: Geoprobe 3162 GT	LONGITUDE (WGS 84): -105.137611
DRILL BIT SIZE (INCHES): 2.375"	TOTAL WELL DEPTH (FT. BGS): 15
DATE STARTED - COMPLETED: 6/28/23 - 6/28/23	DEPTH TO WATER (FT. BGS): 7



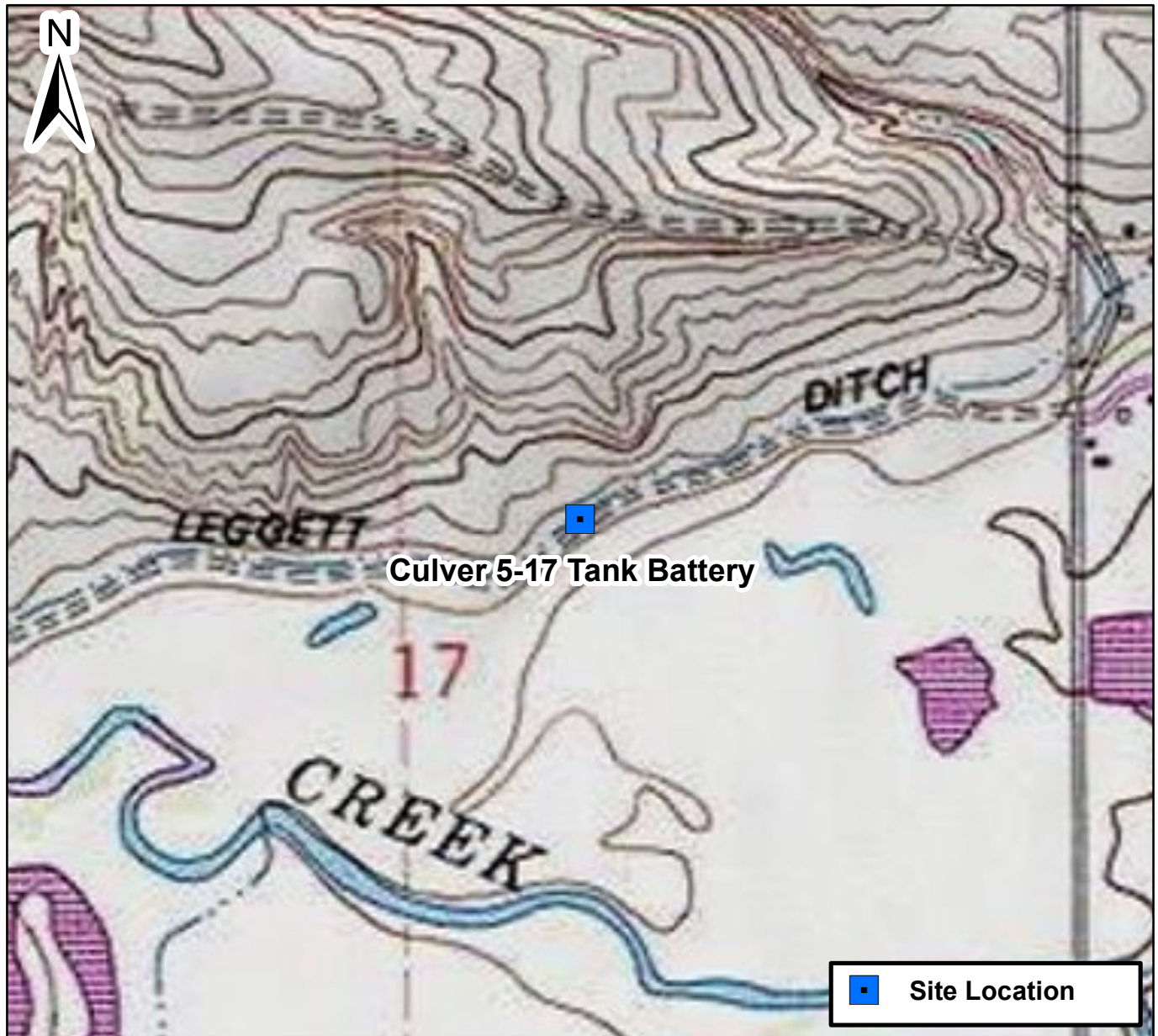
Drilling / Sample Method:

Direct Push Technology
 Grab Sample
 Hydrovac
 Hand Auger

Laboratory Sample Types:

Geotechnical Lab
 Analytical Chemistry Lab
 Geotechnical & Analytical Chemistry Lab

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 6, 2023
DESIGNED BY:	S. Vogt
DRAWN BY:	S. Kirylo



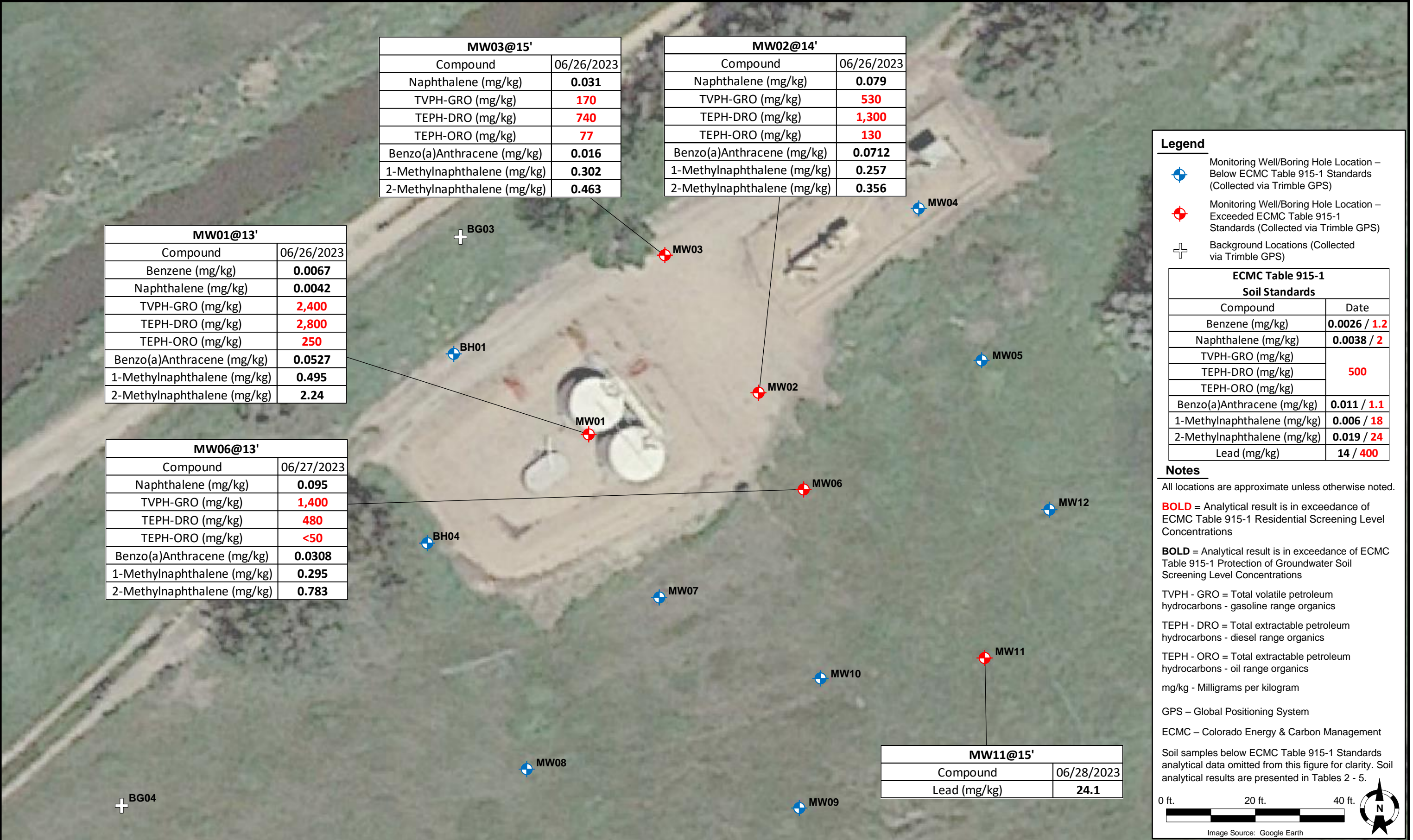
TASMAN

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



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
BACKGROUND							
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)
----------------------	-------	------	-------------------	----------	-----------	----------------	-----------

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

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 ⁽¹⁾			0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
ECMC Organic Compounds in Soils - RSL ⁽²⁾			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 ⁽¹⁾			0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
ECMC Organic Compounds in Soils - RSL ⁽²⁾			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 ⁽¹⁾			0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
ECMC Organic Compounds in Soils - RSL ⁽²⁾			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 ⁽¹⁾			0.55	5.8	0.011	0.3	2.9	0.24	9	0.96	8.9	0.54	0.98	0.006	0.019	1.3
ECMC Organic Compounds in Soils - RSL ⁽²⁾			360	1,800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
BH01@6'	6'	09/09/2022	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
BH04@6.5'	6.5'	09/09/2022	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS01@10'	10'	10/27/2022	<0.00500	0.0566	0.0340	0.0186	0.00744	0.0133	0.0561	<0.00500	0.157	0.0852	0.00603	0.133	<0.00500	0.153
SS03@10'	10'	10/27/2022	<0.00500	0.0321	0.0446	0.0261	0.0104	0.0203	0.0592	<0.00500	0.149	0.112	0.0105	0.0905	<0.00500	0.139
SS04@10'	10'	10/27/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS05@11'	11'	10/28/2022	<0.00500	<0.00500	0.0109	0.00537	<0.00500	<0.00500	0.0110	<0.00500	0.0386	0.0181	<0.00500	0.0785	0.174	0.0351
SS06@10'	10'	10/28/2022	<0.00500	0.104	0.164	0.118	0.0471	0.0932	0.186	0.00905	0.586	0.119	0.0478	2.33	0.834	0.489
SS07@10.5'	10.5'	10/31/2022	<0.00500	0.0558	0.0599	0.0458	0.0192	0.0353	0.100	<0.00500	0.311	0.101	0.0173	1.46	5.37	0.269
SS08@10'	10'	10/31/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS09@10'	10'	11/01/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS10@10'	10'	11/01/2022	<0.00500	0.00534	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0254	0.0159	<0.00500	0.0810	0.165	0.0202
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



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 ⁽¹⁾			0.55	5.8	0.011	0.3	2.9	0.24	9	0.96	8.9	0.54	0.98	0.006	0.019	1.3
ECMC Organic Compounds in Soils - RSL ⁽²⁾			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 ⁽¹⁾			0.55	5.8	0.011	0.3	2.9	0.24	9	0.96	8.9	0.54	0.98	0.006	0.019	1.3
ECMC Organic Compounds in Soils - RSL ⁽²⁾			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 ⁽¹⁾			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
ECMC Metals in Soils - RSL ⁽²⁾			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
BH01@6'	6'	09/09/2022	-	-	-	-	-	10.2	-	-	-	-
BH04@6.5'	6.5'	09/09/2022	-	-	-	-	-	<8.26	-	-	-	-
SS01@10'	10'	10/27/2022	-	-	-	-	-	3.53	-	-	-	-
SS03@10'	10'	10/27/2022	-	-	-	-	-	3.96	-	-	-	-
SS04@10'	10'	10/27/2022	-	-	-	-	-	3.11	-	-	-	-
SS05@11'	11'	10/28/2022	-	-	-	-	-	5.60	-	-	-	-
SS06@10'	10'	10/28/2022	-	-	-	-	-	2.58	-	-	-	-
SS07@10.5'	10.5'	10/31/2022	-	-	-	-	-	2.04	-	-	-	-
SS08@10'	10'	10/31/2022	-	-	-	-	-	4.38	-	-	-	-
SS09@10'	10'	11/01/2022	-	-	-	-	-	2.22	-	-	-	-
SS10@10'	10'	11/01/2022	-	-	-	-	-	3.08	-	-	-	-
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 ⁽¹⁾			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
ECMC Metals in Soils - RSL ⁽²⁾			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 ⁽¹⁾			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
ECMC Metals in Soils - RSL ⁽²⁾			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 ⁽¹⁾			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
ECMC Metals in Soils - RSL ⁽²⁾			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 ⁽¹⁾			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
ECMC Metals in Soils - RSL ⁽²⁾			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			-	-	-	-	-	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)
(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)
ECMC Soil Suitability for Reclamation ⁽¹⁾			6 - 8.3	< 6	< 4	2
BH01@6'	6'	09/09/2022	8.31*	-	-	-
BH04@6.5'	6.5'	09/09/2022	8.35	-	-	-
SS01@10'	10'	10/27/2022	8.07	-	-	-
SS03@10'	10'	10/27/2022	8.47	-	-	-
SS04@10'	10'	10/27/2022	8.29	-	-	-
SS05@11'	11'	10/28/2022	8.32	-	-	-
SS06@10'	10'	10/28/2022	8.35	-	-	-
SS07@10.5'	10.5'	10/31/2022	8.26	-	-	-
SS08@10'	10'	10/31/2022	9.06	-	-	-
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)
ECMC Soil Suitability for Reclamation ⁽¹⁾			6 - 8.3	< 6	< 4	2
SS33@10'	10'	11/07/2022	8.05	-	-	-
SS34@8.5'	8.5'	11/07/2022	7.99	-	-	-
SS35@10'	10'	11/07/2022	7.54	-	-	-
SS36@8.5'	8.5'	11/07/2022	8.30*	-	-	-
SS37@8.5'	8.5'	11/07/2022	8.48	-	-	-
SS38@10'	10'	11/07/2022	8.30*	-	-	-
SS39@11'	11'	11/07/2022	8.58	-	-	-
SS40@8.5'	8.5'	11/08/2022	7.82	-	-	-
SS41@11'	11'	11/08/2022	8.31	-	-	-
SS43@11'	11'	11/08/2022	8.07	-	-	-
SS44@8.5'	8.5'	11/08/2022	6.44	-	-	-
SS45@11'	11'	11/09/2022	7.05	-	-	-
SS46@8.5'	8.5'	11/09/2022	8.27	-	-	-
SS47@11'	11'	11/09/2022	7.31	-	-	-
SS48@8.5'	8.5'	11/09/2022	8.15	-	-	-
SS49@11'	11'	11/10/2022	8.15	-	-	-
SS50@8.5'	8.5'	11/10/2022	8.09	-	-	-
SS51@12'	12'	11/10/2022	8.36	-	-	-
SS52@8.5'	8.5'	11/10/2022	8.06	-	-	-
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)
ECMC Soil Suitability for Reclamation⁽¹⁾			6 - 8.3	< 6	< 4	2
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	-	-	-
BACKGROUND						
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	-	-	-
Average Background @ 6.5'			8.23	-	-	-
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	-	-	-
Average Background @ 6'			7.98	-	-	-
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	-	-	-
Average Background @ 8'			7.60	-	-	-
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)
ECMC Soil Suitability for Reclamation⁽¹⁾			6 - 8.3	< 6	< 4	2
BG03@10'	10'	6/28/2023	7.99	-	-	-
BG04@10'	10'	6/28/2023	8.08	-	-	-
Average Background 10'			7.91	-	-	-
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	-	-	-
Average Background @ 12'			7.71	-	-	-
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	-	-	-
Average Background @ 14'			8.05	-	-	-
BG03@20'	20'	45105	7.82	-	-	-
BG04@20'	20'	45105	8.12	-	-	-
Average Background @ 20'			7.97	-	-	-

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)
COGCC Organic Compounds in Groundwater and Groundwater Inorganic		5	560	700	1,400	140	67	67	250 or <1.25 x Background	250 or <1.25 x Background	<1.25 x Background
BH01	09/16/2022	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	51.7	130	675
BH02	09/16/2022	10.7	<1.00	<1.00	<1.00	6.68	<2.00	<2.00	51.6	19.0	747
BH03	09/16/2022	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	44.7	21.9	430
BH04	09/16/2022	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	37.8	167	770
GW01	11/09/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	17.7	6.99	7,640

Notes:

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

ECMC = Colorado Energy & Carbon Management 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

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

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
BH02	09/16/2022	5,063.85	13.14	9.02	9.01	0.01	5,054.84
BH03	09/16/2022	5,060.26	9.14	5.98	5.97	0.01	5,054.29
BH04	09/16/2022	5,062.37	8.37	7.21	ND		5,055.16

Notes:

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

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

LNAPL relative density was estimated to be approximately 0.75

Definitions:

ft. = feet

AMSL = Above Mean Sea Level

LNAPL = Light Non-Aqueous Phase Liquid

ND = Not detected

TABLES

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
BACKGROUND							
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 ⁽¹⁾			0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
ECMC Organic Compounds in Soils - RSL ⁽²⁾			1.2	490	5.8	58	2	500			30	27
FL/SEP04@4'	4'	04/19/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<100			<0.00200	<0.00200
AST01@3"	3"	04/19/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<100			<0.00200	<0.00200
AST02@2"	2"	04/19/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	172.2			<0.00200	<0.00200
PWV01B@4'	4'	04/19/2022	<0.00200	<0.00200	<0.00200	<0.00200	0.02430	725.5			<0.00200	<0.00200
PWV01N@3'	3'	04/19/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00335	<100			<0.00200	<0.00200
PWV01E@3.5'	3.5'	04/19/2022	0.00664	<0.00200	<0.00200	0.00336	0.715	2,335.2			0.0801	<0.00200
PWV01S@1'	1'	04/19/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<100			<0.00200	<0.00200
PWV01W@2'	2'	04/19/2022	<0.00200	<0.00200	<0.00200	<0.00200	0.00571	<100			<0.00200	<0.00200
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 ⁽¹⁾			0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
ECMC Organic Compounds in Soils - RSL ⁽²⁾			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 ⁽¹⁾			0.55	5.8	0.011	0.3	2.9	0.24	9	0.96	8.9	0.54	0.98	0.006	0.019	1.3
ECMC Organic Compounds in Soils - RSL ⁽²⁾			360	1,800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
PWV01B@4'	4'	04/19/2022	0.0225	<0.0067	0.00858	<0.0067	<0.0067	<0.0067	0.0304	<0.0067	<0.0067	0.0481	<0.0067	0.0907	0.132	0.0108
PWV01N@3'	3'	04/19/2022	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335
PWV01E@3.5'	3.5'	04/19/2022	0.163	0.00909	0.0116	<0.0067	<0.0067	<0.0067	0.0601	<0.0067	0.00554	0.348	<0.0067	1.52	2.75	0.0275
PWV01S@1'	1'	04/19/2022	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
PWV01W@2'	2'	04/19/2022	0.0021	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000801	<0.00067	<0.00067	0.0042	<0.00067	0.0155	0.0268	<0.00067
BH02@7'	7'	09/09/2022	0.114	0.00344	0.00873	<0.00335	<0.00335	<0.00335	0.0361	<0.00335	<0.00335	0.215	<0.00335	1.05	2.53	0.0187
BH03@8.5'	8.5'	09/09/2022	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS02@7'	7'	10/27/2022	<0.00500	<0.00500	0.0508	0.0343	0.0143	0.0272	0.0997	<0.00500	0.162	0.190	0.0136	0.0991	<0.00500	0.167
SS11@9.5'	9.5'	11/01/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00648	<0.00500	<0.00500	0.0301	<0.00500	0.173	0.408	<0.00500
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 ⁽¹⁾			0.55	5.8	0.011	0.3	2.9	0.24	9	0.96	8.9	0.54	0.98	0.006	0.019	1.3
ECMC Organic Compounds in Soils - RSL ⁽²⁾			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 ⁽¹⁾			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
ECMC Metals in Soils - RSL ⁽²⁾			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
PWV01B@4'	4'	04/19/2022	3.80	162	0.220	<0.515	16.7	15.4	19.5	0.477	0.0651	70.9
PWV01N@3'	3'	04/19/2022	2.09	115	0.137	<0.246	8.16	8.06	10.2	0.354	0.0404	35.1
PWV01E@3.5'	3.5'	04/19/2022	1.93	128	0.143	<0.514	13.4	10.7	13.6	0.456	0.0526	48.8
PWV01S@1'	1'	04/19/2022	2.52	120	0.146	<0.507	10.0	9.08	11.6	0.385	0.0480	42.0
PWV01W@2'	2'	04/19/2022	2.27	115	0.152	<0.245	9.73	8.86	11.7	0.345	0.0421	42.3
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 ⁽¹⁾			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
ECMC Metals in Soils - RSL ⁽²⁾			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 ⁽¹⁾			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
ECMC Metals in Soils - RSL ⁽²⁾			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)
ECMC Soil Suitability for Reclamation⁽¹⁾			6 - 8.3	< 6	< 4	2
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	8.78	1.080	1.080	0.399
PWV01N@3'	3'	4/19/2022	8.53	0.111	0.266	<0.100
PWV01E@3.5'	3.5'	4/19/2022	8.67	0.987	0.581	0.723
PWV01S@1'	1'	4/19/2022	8.48	0.0570	0.272	0.241
PWV01W@2'	2'	4/19/2022	8.47	0.350	0.365	0.709
BH02@7'	7'	09/09/2022	7.91	-	-	-
BH03@8.5'	8.5'	09/09/2022	8.45	-	-	-
SS02@7'	7'	10/27/2022	9.21	-	-	-
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	-	-	-
BACKGROUND						
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	-	-	-
Average Background @ 6.5'			8.23	-	-	-
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	-	-	-
Average Background @ 6'			7.98	-	-	-
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	-	-	-
Average Background @ 8'			7.60	-	-	-

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)
ECMC Soil Suitability for Reclamation⁽¹⁾			6 - 8.3	< 6	< 4	2
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	-	-	-
Average Background 10'			7.91	-	-	-
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	-	-	-
Average Background @ 12'			7.71	-	-	-
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	-	-	-
Average Background @ 14'			8.05	-	-	-
BG03@20'	20'	45105	7.82	-	-	-
BG04@20'	20'	45105	8.12	-	-	-
Average Background @ 20'			7.97	-	-	-

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 80401

303.277.9310

July 11, 2023

Sam Vogt

Tasman Geosciences

6855 W. 119th Ave.

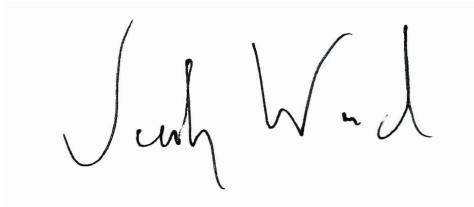
Broomfield, CO 80020

RE: Civitas - Culver 5-17 Tank Battery

Work Order # 2306533

Enclosed are the results of analyses for samples received by Summit Scientific on 06/26/23 17:51. 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. The first name "Jacob" is written with a large, looped 'J' and a small 'a'. The last name "Wood" is written with a large 'W' and a small 'd'.

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:
07/11/23 11:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01@13'	2306533-01	Soil	06/26/23 11:05	06/26/23 17:51
MW01@20'	2306533-02	Soil	06/26/23 12:36	06/26/23 17:51
MW02@14'	2306533-03	Soil	06/26/23 13:10	06/26/23 17:51
MW02@19'	2306533-04	Soil	06/26/23 13:22	06/26/23 17:51
MW03@15'	2306533-05	Soil	06/26/23 14:40	06/26/23 17:51
MW03@20'	2306533-06	Soil	06/26/23 14:50	06/26/23 17:51

Case Narrative

Samuel Vogt requested PAH be added to all samples on 7/6/2023. This report includes those results.

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.

		Send Data To:	Send Invoice To:
Client: Civitas/Tasman		Project Manager: Sam Vogt/Jacob Evans	Company:
Address: 6855 W. 119th Ave		E-Mail: svgot@tasman-geo.com; jevans@civiresources.com	Project Name/Location:
City/State/Zip: Broomfield, CO 80020			AFE#:
Phone: PM (610) 405-9078		Project Name: <i>Culver S-17 Tank Battery</i>	PO/Billing Codes:
Sampler Name: <i>Chris Girardi</i>		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)	Cadmium Lead	Sulfate pH	TOC				
1	MW41 @ 13'	6/26/23	1105	2			X			X			X	X	X	X	X	X				
2	MW41 @ 20'	6/26/23	1236	↓			↓			↓			↓	↓	↓	↓	↓	↓				
3	MW42 @ 14'	↓	1310	↓			↓			↓			↓	↓	↓	↓	↓	↓				
4	MW42 @ 19'		1322																			
5	MW43 @ 15'		1440																			
6	MW43 @ 20'	↓	1450	↓			↓			↓			↓	↓	↓	↓	↓	↓				
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						

Relinquished by: <i>Chris Girardi</i>	Date/Time: 6/26/23 1620	Received by: Tasman Lockbox	Date/Time: 6/26/23 1620	TAT Business Days	Field DO	Notes:
Relinquished by: <i>Tasman Lockbox</i>	Date/Time: 6/26/23 1751	Received by: <i>[Signature]</i>	Date/Time: 6/26/23 1751	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 9.6	Corrected Temperature: 6	IR gun #: 1	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2306533Client: Cortes Tasman Client Project ID: Culver S-IT Tank BottomShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐

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

Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 9.6Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ICE
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" 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 ²⁺), Hexavalent Chromium (Cr ⁶⁺ , 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? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Custodian Printed Name

Date/Time



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/11/23 11:04

MW01@13'
2306533-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/26/23 11:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	0.0067	0.0020	0.000098	mg/kg	1	BGF1014	06/28/23	06/29/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	0.0042	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	2400	50		"	100	"	"	06/29/23	"	

Date Sampled: **06/26/23 11:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		878 %		50-150		"	"	06/29/23	"	S-02
Surrogate: Toluene-d8		%		50-150		"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene		8840 %		50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/26/23 11:05**


Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	2800	50	4.3	mg/kg	1	BGF1016	06/28/23	06/29/23	EPA 8015M	
C28-C36 (ORO)	250	50	4.3	"	"	"	"	"	"	

Date Sampled: **06/26/23 11:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		141 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific



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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/11/23 11:04

MW01@13'
2306533-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/26/23 11:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGG0154	07/07/23	07/07/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	0.0527	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	0.0219	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	0.0885	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	0.0192	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	0.495	0.00500	0.00185	"	"	"	"	"	"	E
2-Methylnaphthalene	2.24	0.00500	0.00189	"	"	"	"	"	"	E

Date Sampled: **06/26/23 11:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		52.7 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		97.6 %		40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **06/26/23 11:05**

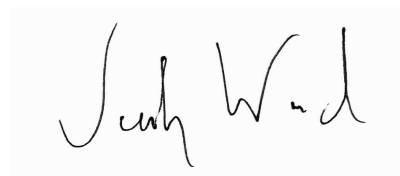
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Lead	3.57	0.200	0.0550	mg/kg dry	1	BGF1008	06/28/23	07/02/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/26/23 11:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

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:
07/11/23 11:04

MW01@13'
2306533-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	89.6	%	1	BGF1093	06/29/23	06/29/23	Calculation
----------	------	---	---	---------	----------	----------	-------------

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

Date Sampled: **06/26/23 11:05**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.19			pH Units	1	BGF0968	06/27/23	06/27/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/11/23 11:04

MW01@20'
2306533-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/26/23 12:36**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGF1014	06/28/23	06/29/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.2	0.50		"	"	"	"	"	"	

Date Sampled: **06/26/23 12:36**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		90.3 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		111 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		113 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/26/23 12:36**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	29	50	4.3	mg/kg	1	BGF1016	06/28/23	06/29/23	EPA 8015M	J
C28-C36 (ORO)	22	50	4.3	"	"	"	"	"	"	J

Date Sampled: **06/26/23 12:36**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		130 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/11/23 11:04

MW01@20'
2306533-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/26/23 12:36**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGG0154	07/07/23	07/07/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **06/26/23 12:36**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		82.8 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		87.7 %		40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **06/26/23 12:36**


Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Lead	3.32	0.200	0.0550	mg/kg dry	1	BGF1008	06/28/23	07/02/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/26/23 12:36**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

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:
07/11/23 11:04

MW01@20'
2306533-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	88.5	%	1	BGF1093	06/29/23	06/29/23	Calculation
----------	------	---	---	---------	----------	----------	-------------

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

Date Sampled: **06/26/23 12:36**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.45			pH Units	1	BGF0968	06/27/23	06/27/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/11/23 11:04

MW02@14'
2306533-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/26/23 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGF1014	06/28/23	06/29/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	0.079	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	530	5.0		"	10	"	"	06/29/23	"	

Date Sampled: **06/26/23 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		86.9 %		50-150		"	"	06/29/23	"	
Surrogate: Toluene-d8		553 %		50-150		"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene		3370 %		50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/26/23 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	1300	50	4.3	mg/kg	1	BGF1016	06/28/23	06/29/23	EPA 8015M	
C28-C36 (ORO)	130	50	4.3	"	"	"	"	"	"	

Date Sampled: **06/26/23 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		134 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/11/23 11:04

MW02@14'
2306533-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/26/23 13:10**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGG0154	07/07/23	07/07/23	EPA 8270D SIM	
Anthracene	0.0252	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	0.0712	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	0.0303	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0429	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.0152	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	0.0810	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	0.257	0.00500	0.000373	"	"	"	"	"	"	E
Fluorene	0.0976	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.0185	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	0.216	0.00500	0.000317	"	"	"	"	"	"	E
1-Methylnaphthalene	0.257	0.00500	0.00185	"	"	"	"	"	"	E
2-Methylnaphthalene	0.356	0.00500	0.00189	"	"	"	"	"	"	E

Date Sampled: **06/26/23 13:10**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		58.3 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		115 %		40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **06/26/23 13:10**

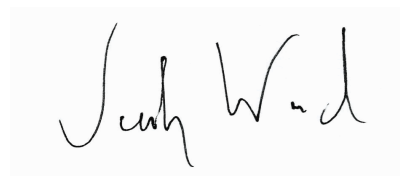
Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	2.36	0.200	0.0550	mg/kg dry	1	BGF1008	06/28/23	07/02/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/26/23 13:10**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-----	-------	----------	-------	----------	----------	--------	-------

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:
07/11/23 11:04

MW02@14'
2306533-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	90.3	%	1	BGF1093	06/29/23	06/29/23	Calculation
----------	------	---	---	---------	----------	----------	-------------

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

Date Sampled: **06/26/23 13:10**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.19			pH Units	1	BGF0968	06/27/23	06/27/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/11/23 11:04

MW02@19'
2306533-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/26/23 13:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGF1014	06/28/23	06/29/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.16	0.50		"	"	"	"	"	"	J

Date Sampled: **06/26/23 13:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		86.4 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/26/23 13:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	22	50	4.3	mg/kg	1	BGF1016	06/28/23	06/29/23	EPA 8015M	J
C28-C36 (ORO)	25	50	4.3	"	"	"	"	"	"	J

Date Sampled: **06/26/23 13:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		136 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/11/23 11:04

MW02@19'
2306533-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/26/23 13:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGG0154	07/07/23	07/07/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **06/26/23 13:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		86.3 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		76.6 %		40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **06/26/23 13:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Lead	3.05	0.200	0.0550	mg/kg dry	1	BGF1008	06/28/23	07/02/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/26/23 13:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

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:
07/11/23 11:04

MW02@19'
2306533-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	88.3	%	1	BGF1093	06/29/23	06/29/23	Calculation
----------	------	---	---	---------	----------	----------	-------------

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

Date Sampled: **06/26/23 13:22**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.51			pH Units	1	BGF0968	06/27/23	06/27/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/11/23 11:04

MW03@15'
2306533-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/26/23 14:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGF1014	06/28/23	06/29/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	0.031	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	170	5.0		"	10	"	"	06/29/23	"	

Date Sampled: **06/26/23 14:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		88.6 %		50-150		"	"	06/29/23	"	
Surrogate: Toluene-d8		375 %		50-150		"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene		2330 %		50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/26/23 14:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	740	50	4.3	mg/kg	1	BGF1016	06/28/23	06/29/23	EPA 8015M	
C28-C36 (ORO)	77	50	4.3	"	"	"	"	"	"	

Date Sampled: **06/26/23 14:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		136 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/11/23 11:04

MW03@15'
2306533-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/26/23 14:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGG0154	07/07/23	07/07/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	0.0161	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	0.00849	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	0.0740	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	0.302	0.00500	0.00185	"	"	"	"	"	"	E
2-Methylnaphthalene	0.463	0.00500	0.00189	"	"	"	"	"	"	E

Date Sampled: **06/26/23 14:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		62.1 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		75.5 %		40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **06/26/23 14:40**

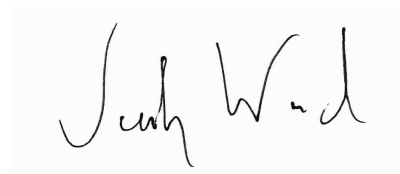
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Lead	5.16	0.200	0.0550	mg/kg dry	1	BGF1008	06/28/23	07/02/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/26/23 14:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

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:
07/11/23 11:04

MW03@15'
2306533-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	86.2	%	1	BGF1093	06/29/23	06/29/23	Calculation
----------	------	---	---	---------	----------	----------	-------------

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

Date Sampled: **06/26/23 14:40**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.06			pH Units	1	BGF0968	06/27/23	06/27/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/11/23 11:04

MW03@20'
2306533-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/26/23 14:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGF1014	06/28/23	06/29/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.16	0.50		"	"	"	"	"	"	J

Date Sampled: **06/26/23 14:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		83.5 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		98.6 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/26/23 14:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	16	50	4.3	mg/kg	1	BGF1016	06/28/23	06/29/23	EPA 8015M	J
C28-C36 (ORO)	20	50	4.3	"	"	"	"	"	"	J

Date Sampled: **06/26/23 14:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		137 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/11/23 11:04

MW03@20'
2306533-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/26/23 14:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGG0154	07/07/23	07/07/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **06/26/23 14:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		82.7 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		90.3 %		40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **06/26/23 14:50**

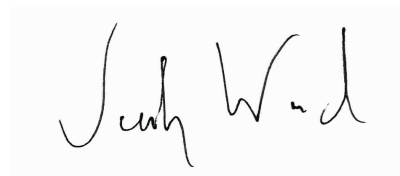
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Lead	3.22	0.200	0.0550	mg/kg dry	1	BGF1008	06/28/23	07/02/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/26/23 14:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

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:
07/11/23 11:04

MW03@20'
2306533-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	89.7	%	1	BGF1093	06/29/23	06/29/23	Calculation
----------	------	---	---	---------	----------	----------	-------------

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

Date Sampled: **06/26/23 14:50**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.15			pH Units	1	BGF0968	06/27/23	06/27/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/11/23 11:04

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 BGF1014 - EPA 5030 Soil MS

Blank (BGF1014-BLK1)

Prepared & Analyzed: 06/28/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	0.171	0.50	"							J
Surrogate: 1,2-Dichloroethane-d4	0.0347		"	0.0400		86.8	50-150			
Surrogate: Toluene-d8	0.0410		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0410		"	0.0400		102	50-150			

LCS (BGF1014-BS1)

Prepared & Analyzed: 06/28/23

Benzene	0.0680	0.0020	mg/kg	0.0750		90.7	70-130			
Toluene	0.0797	0.0050	"	0.0750		106	70-130			
Ethylbenzene	0.0930	0.0050	"	0.0750		124	70-130			
m,p-Xylene	0.185	0.010	"	0.150		123	70-130			
o-Xylene	0.0820	0.0050	"	0.0750		109	70-130			
1,2,4-Trimethylbenzene	0.0877	0.0050	"	0.0750		117	70-130			
1,3,5-Trimethylbenzene	0.0912	0.0050	"	0.0750		122	70-130			
Naphthalene	0.0736	0.0038	"	0.0750		98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0333		"	0.0400		83.3	50-150			
Surrogate: Toluene-d8	0.0393		"	0.0400		98.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.2	50-150			

Matrix Spike (BGF1014-MS1)

Source: 2306527-02

Prepared & Analyzed: 06/28/23

Benzene	0.0669	0.0020	mg/kg	0.0750	ND	89.2	70-130			
Toluene	0.0782	0.0050	"	0.0750	ND	104	70-130			
Ethylbenzene	0.0934	0.0050	"	0.0750	ND	125	70-130			
m,p-Xylene	0.184	0.010	"	0.150	ND	123	70-130			
o-Xylene	0.0830	0.0050	"	0.0750	ND	111	70-130			
1,2,4-Trimethylbenzene	0.0873	0.0050	"	0.0750	ND	116	70-130			
1,3,5-Trimethylbenzene	0.0897	0.0050	"	0.0750	ND	120	70-130			
Naphthalene	0.0784	0.0038	"	0.0750	ND	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0320		"	0.0400		80.1	50-150			
Surrogate: Toluene-d8	0.0377		"	0.0400		94.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400		101	50-150			

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/11/23 11:04

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 BGF1014 - EPA 5030 Soil MS

Matrix Spike Dup (BGF1014-MSD1)	Source: 2306527-02			Prepared & Analyzed: 06/28/23						
Benzene	0.0671	0.0020	mg/kg	0.0750	ND	89.5	70-130	0.358	30	
Toluene	0.0801	0.0050	"	0.0750	ND	107	70-130	2.43	30	
Ethylbenzene	0.0926	0.0050	"	0.0750	ND	123	70-130	0.903	30	
m,p-Xylene	0.184	0.010	"	0.150	ND	123	70-130	0.310	30	
o-Xylene	0.0826	0.0050	"	0.0750	ND	110	70-130	0.507	30	
1,2,4-Trimethylbenzene	0.0880	0.0050	"	0.0750	ND	117	70-130	0.719	30	
1,3,5-Trimethylbenzene	0.0903	0.0050	"	0.0750	ND	120	70-130	0.733	30	
Naphthalene	0.0790	0.0038	"	0.0750	ND	105	70-130	0.686	30	
Surrogate: 1,2-Dichloroethane-d4	0.0331		"	0.0400		82.8	50-150			
Surrogate: Toluene-d8	0.0388		"	0.0400		97.1	50-150			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.1	50-150			

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/11/23 11:04

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGF1016 - EPA 3550A

Blank (BGF1016-BLK1)

Prepared & Analyzed: 06/28/23

C10-C28 (DRO)	8.55	50	mg/kg							J
C28-C36 (ORO)	8.66	50	"							J
Surrogate: o-Terphenyl	13.4		"	12.5	108	30-150				

LCS (BGF1016-BS1)

Prepared & Analyzed: 06/28/23

C10-C28 (DRO)	523	50	mg/kg	500	105	70-130				
Surrogate: o-Terphenyl	15.2		"	12.5	122	30-150				

Matrix Spike (BGF1016-MS1)

Source: 2306527-02

Prepared & Analyzed: 06/28/23

C10-C28 (DRO)	571	50	mg/kg	500	9.02	112	70-130			
Surrogate: o-Terphenyl	15.9		"	12.5	127	30-150				

Matrix Spike Dup (BGF1016-MSD1)

Source: 2306527-02

Prepared & Analyzed: 06/28/23

C10-C28 (DRO)	424	50	mg/kg	500	9.02	83.0	70-130	29.6	20	QR-02
Surrogate: o-Terphenyl	12.6		"	12.5	101	30-150				

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/11/23 11:04

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 BGG0154 - EPA 5030 Soil MS

Blank (BGG0154-BLK1)

Prepared & Analyzed: 07/07/23

Acenaphthene	ND	0.00500	mg/kg
Anthracene	ND	0.00500	"
Benzo (a) anthracene	ND	0.00500	"
Benzo (a) pyrene	ND	0.00500	"
Benzo (b) fluoranthene	ND	0.00500	"
Benzo (k) fluoranthene	ND	0.00500	"
Chrysene	ND	0.00500	"
Dibenz (a,h) anthracene	ND	0.00500	"
Fluoranthene	ND	0.00500	"
Fluorene	ND	0.00500	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"
Pyrene	ND	0.00500	"
1-Methylnaphthalene	ND	0.00500	"
2-Methylnaphthalene	ND	0.00500	"

Surrogate: 2-Methylnaphthalene-d10	0.0325	"	0.0333	97.4	40-150
Surrogate: Fluoranthene-d10	0.0320	"	0.0333	96.0	40-150

LCS (BGG0154-BS1)

Prepared & Analyzed: 07/07/23

Acenaphthene	0.0368	0.00500	mg/kg	0.0333	110	31-137
Anthracene	0.0374	0.00500	"	0.0333	112	30-120
Benzo (a) anthracene	0.0398	0.00500	"	0.0333	119	30-120
Benzo (a) pyrene	0.0346	0.00500	"	0.0333	104	30-120
Benzo (b) fluoranthene	0.0368	0.00500	"	0.0333	111	30-120
Benzo (k) fluoranthene	0.0353	0.00500	"	0.0333	106	30-120
Chrysene	0.0373	0.00500	"	0.0333	112	30-120
Dibenz (a,h) anthracene	0.0360	0.00500	"	0.0333	108	30-120
Fluoranthene	0.0346	0.00500	"	0.0333	104	30-120
Fluorene	0.0361	0.00500	"	0.0333	108	30-120
Indeno (1,2,3-cd) pyrene	0.0308	0.00500	"	0.0333	92.5	30-120
Pyrene	0.0399	0.00500	"	0.0333	120	35-142
1-Methylnaphthalene	0.0291	0.00500	"	0.0333	87.2	35-142
2-Methylnaphthalene	0.0394	0.00500	"	0.0333	118	35-142

Surrogate: 2-Methylnaphthalene-d10	0.0306	"	0.0333	91.9	40-150
Surrogate: Fluoranthene-d10	0.0369	"	0.0333	111	40-150

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/11/23 11:04

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 BGG0154 - EPA 5030 Soil MS

Matrix Spike (BGG0154-MS1)

Source: 2307053-01

Prepared & Analyzed: 07/07/23

Acenaphthene	0.0241	0.00500	mg/kg	0.0333	ND	72.4	31-137		
Anthracene	0.0243	0.00500	"	0.0333	ND	73.0	30-120		
Benzo (a) anthracene	0.0225	0.00500	"	0.0333	ND	67.5	30-120		
Benzo (a) pyrene	0.0202	0.00500	"	0.0333	ND	60.5	30-120		
Benzo (b) fluoranthene	0.0215	0.00500	"	0.0333	ND	64.5	30-120		
Benzo (k) fluoranthene	0.0214	0.00500	"	0.0333	ND	64.2	30-120		
Chrysene	0.0228	0.00500	"	0.0333	ND	68.5	30-120		
Dibenz (a,h) anthracene	0.0202	0.00500	"	0.0333	ND	60.7	30-120		
Fluoranthene	0.0230	0.00500	"	0.0333	ND	69.1	30-120		
Fluorene	0.0235	0.00500	"	0.0333	ND	70.4	30-120		
Indeno (1,2,3-cd) pyrene	0.0179	0.00500	"	0.0333	ND	53.8	30-120		
Pyrene	0.0249	0.00500	"	0.0333	ND	74.6	35-142		
1-Methylnaphthalene	0.0179	0.00500	"	0.0333	ND	53.8	15-130		
2-Methylnaphthalene	0.0255	0.00500	"	0.0333	ND	76.4	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0203		"	0.0333		60.8	40-150		
Surrogate: Fluoranthene-d10	0.0268		"	0.0333		80.5	40-150		

Matrix Spike Dup (BGG0154-MSD1)

Source: 2307053-01

Prepared & Analyzed: 07/07/23

Acenaphthene	0.0254	0.00500	mg/kg	0.0333	ND	76.3	31-137	5.22	30
Anthracene	0.0265	0.00500	"	0.0333	ND	79.6	30-120	8.67	30
Benzo (a) anthracene	0.0270	0.00500	"	0.0333	ND	81.0	30-120	18.1	30
Benzo (a) pyrene	0.0248	0.00500	"	0.0333	ND	74.5	30-120	20.7	30
Benzo (b) fluoranthene	0.0250	0.00500	"	0.0333	ND	75.1	30-120	15.2	30
Benzo (k) fluoranthene	0.0246	0.00500	"	0.0333	ND	73.7	30-120	13.7	30
Chrysene	0.0263	0.00500	"	0.0333	ND	79.0	30-120	14.3	30
Dibenz (a,h) anthracene	0.0235	0.00500	"	0.0333	ND	70.5	30-120	15.0	30
Fluoranthene	0.0253	0.00500	"	0.0333	ND	75.9	30-120	9.44	30
Fluorene	0.0253	0.00500	"	0.0333	ND	75.9	30-120	7.44	30
Indeno (1,2,3-cd) pyrene	0.0205	0.00500	"	0.0333	ND	61.4	30-120	13.2	30
Pyrene	0.0287	0.00500	"	0.0333	ND	86.2	35-142	14.4	30
1-Methylnaphthalene	0.0216	0.00500	"	0.0333	ND	64.7	15-130	18.4	50
2-Methylnaphthalene	0.0281	0.00500	"	0.0333	ND	84.4	15-130	9.95	50
Surrogate: 2-Methylnaphthalene-d10	0.0253		"	0.0333		76.0	40-150		
Surrogate: Fluoranthene-d10	0.0295		"	0.0333		88.4	40-150		

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/11/23 11:04

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGF1008 - EPA 3050B

Blank (BGF1008-BLK1)

Prepared: 06/28/23 Analyzed: 07/02/23

Lead ND 0.200 mg/kg wet

LCS (BGF1008-BS1)

Prepared: 06/28/23 Analyzed: 07/02/23

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

Duplicate (BGF1008-DUP1)

Source: 2305459-03

Prepared: 06/28/23 Analyzed: 07/02/23

Lead 25.9 0.200 mg/kg dry 5.22 133 20 QR-04

Matrix Spike (BGF1008-MS1)

Source: 2305459-03

Prepared: 06/28/23 Analyzed: 07/02/23

Lead 14.3 0.200 mg/kg dry 23.2 5.22 39.2 75-125 QM-07

Matrix Spike Dup (BGF1008-MSD1)

Source: 2305459-03

Prepared: 06/28/23 Analyzed: 07/02/23

Lead 10.3 0.200 mg/kg dry 23.2 5.22 21.8 75-125 32.9 25 QM-07

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:
07/11/23 11:04

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

Summit Scientific

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

Batch BGF1093 - General Preparation

Duplicate (BGF1093-DUP1)		Source: 2306532-01		Prepared & Analyzed: 06/29/23						
% Solids	85.8		%		89.1			3.77	20	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/11/23 11:04

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

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

Batch BGF0968 - General Preparation

LCS (BGF0968-BS1)

Prepared & Analyzed: 06/27/23

pH	9.14	pH Units	9.18	99.6	95-105
----	------	----------	------	------	--------

Duplicate (BGF0968-DUP1)

Source: 2306400-50

Prepared & Analyzed: 06/27/23

pH	8.02	pH Units	7.97	0.625	20
----	------	----------	------	-------	----

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/11/23 11:04

Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
QR-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-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

July 17, 2023

Sam Vogt

Tasman Geosciences

6855 W. 119th Ave.

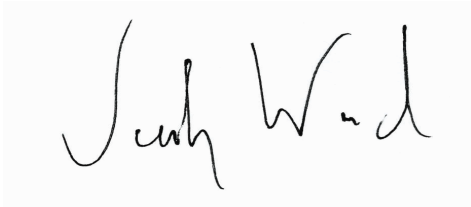
Broomfield, CO 80020

RE: Civitas - Culver 5-17 Tank Battery

Work Order # 2306563

Enclosed are the results of analyses for samples received by Summit Scientific on 06/27/23 17:54. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a stylized "W".

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:
07/17/23 11:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW04@12'	2306563-01	Soil	06/27/23 09:36	06/27/23 17:54
MW04@15'	2306563-02	Soil	06/27/23 09:40	06/27/23 17:54
MW05@13'	2306563-03	Soil	06/27/23 10:00	06/27/23 17:54
MW05@15'	2306563-04	Soil	06/27/23 10:04	06/27/23 17:54
MW06@13'	2306563-05	Soil	06/27/23 10:48	06/27/23 17:54
MW06@17'	2306563-06	Soil	06/27/23 10:53	06/27/23 17:54
MW07@14'	2306563-07	Soil	06/27/23 11:18	06/27/23 17:54
MW07@15'	2306563-08	Soil	06/27/23 11:20	06/27/23 17:54

Case Narrative

Sam Vogt requested PAH be added to all samples on 7/6/2023. This report includes those results.

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.

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

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested								Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEXN	1,2,4 + 1,3,5 TMBs	TPH (GRO, DRO, ORO)	<i>PAHs</i> Lead	pH, EC, SAR	Boron	Metals	
1	MW04 e 12'	6/27/23	0936	2			X			X			X	X	X	X	X			pH, EC, SAR by Saturated paste preparation method Boron by Hot Water Soluble preparation Method Table 915 Metals - As, Ba, Cd, Cu, Pb, Ni, Se, Ag, Zn, Cr VI
2	MW04 e 15'		0940	1									X	X	X	X	X			
3	MW05 e 13'		1000	1									X	X	X	X	X			
4	MW05 e 15'		1004	1									X	X	X	X	X			
5	MW06 e 13'		1048	1									X	X	X	X	X			
6	MW06 e 17'		1053	1									X	X	X	X	X			
7	MW07 e 14'		1118	2									X	X	X	X	X			
8	MW07 e 15'		1120	2									X	X	X	X	X			
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by: <i>Chris Girardi</i>	Date/Time: 6/27/23 1550	Received by: Tasman Lockbox	Date/Time: 6/27/23 1550	TAT Business Days	Field DO	Notes: run MW06 e 17' for Organics preferentially / first
Relinquished by: <i>Tasman Lockbox</i>	Date/Time: 6/27/23 1754	Received by: <i>[Signature]</i>	Date/Time: 6/27/23 1754	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	X Field Turb.	
Temperature Upon Receipt: 10.2	Corrected Temperature: 10.2	IR gun #: 1	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2306563Client: Coutasman Client Project ID: Culver S-17 Tank BatteryShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐

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

Matrix (Check all that apply) Air ☐ Soil/Solid ☐ Water ☐ Other ☐Temp (°C) 15.2Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ICE
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" 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 ²⁺), Hexavalent Chromium (Cr ⁶⁺ , 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? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Missing samples 1 thru 6
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

6/27/23
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:
07/17/23 11:36

MW04@12'
2306563-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/27/23 09:36**

Analyte	Result	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit									
Benzene	ND	0.0020			mg/kg	1	BGF1047	06/29/23	06/30/23	EPA 8260B	
Toluene	ND	0.0050			"	"	"	"	"	"	
Ethylbenzene	ND	0.0050			"	"	"	"	"	"	
Xylenes (total)	ND	0.010			"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050			"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050			"	"	"	"	"	"	
Naphthalene	ND	0.0038			"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50			"	"	"	"	"	"	

Date Sampled: **06/27/23 09:36**

Analyte	Result	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit									
Surrogate: 1,2-Dichloroethane-d4		77.2 %			50-150		"	"	"	"	
Surrogate: Toluene-d8		106 %			50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.5 %			50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/27/23 09:36**

Analyte	Result	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit									
C10-C28 (DRO)	ND	50			mg/kg	1	BGF1050	06/29/23	06/30/23	EPA 8015M	
C28-C36 (ORO)	ND	50			"	"	"	"	"	"	

Date Sampled: **06/27/23 09:36**

Analyte	Result	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit									
Surrogate: o-Terphenyl		144 %			30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/17/23 11:36

MW04@12'
2306563-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/27/23 09:36**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGG0265	07/11/23	07/11/23	EPA 8270D SIM	
Anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Chrysene	ND	0.00500		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500		"	"	"	"	"	"	
Fluoranthene	ND	0.00500		"	"	"	"	"	"	
Fluorene	ND	0.00500		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500		"	"	"	"	"	"	
Pyrene	ND	0.00500		"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	

Date Sampled: **06/27/23 09:36**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		51.9 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		56.6 %		40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **06/27/23 09:36**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	5.97	0.200		mg/kg dry	1	BGF1008	06/28/23	07/02/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/27/23 09:36**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-----	-------	----------	-------	----------	----------	--------	-------

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:
07/17/23 11:36

MW04@12'
2306563-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	71.3	%	1	BGF1079	06/29/23	06/29/23	Calculation
----------	------	---	---	---------	----------	----------	-------------

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

Date Sampled: **06/27/23 09:36**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.08			pH Units	1	BGF1071	06/29/23	06/29/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/17/23 11:36

MW04@15'
2306563-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/27/23 09:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF1047	06/29/23	06/30/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **06/27/23 09:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		84.0 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		113 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.4 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/27/23 09:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGF1050	06/29/23	06/30/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/27/23 09:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		147 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/17/23 11:36

MW04@15'
2306563-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/27/23 09:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500		mg/kg	1	BGG0265	07/11/23	07/11/23	EPA 8270D SIM	
Anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Chrysene	ND	0.00500		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500		"	"	"	"	"	"	
Fluoranthene	ND	0.00500		"	"	"	"	"	"	
Fluorene	ND	0.00500		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500		"	"	"	"	"	"	
Pyrene	ND	0.00500		"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	

Date Sampled: **06/27/23 09:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		56.3 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		65.3 %		40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **06/27/23 09:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Lead	1.52	0.200		mg/kg dry	1	BGF1008	06/28/23	07/03/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/27/23 09:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

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:
07/17/23 11:36

MW04@15'
2306563-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	87.7	%	1	BGF1079	06/29/23	06/29/23	Calculation
----------	------	---	---	---------	----------	----------	-------------

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

Date Sampled: **06/27/23 09:40**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.37			pH Units	1	BGF1071	06/29/23	06/29/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/17/23 11:36

MW05@13'
2306563-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/27/23 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF1047	06/29/23	06/30/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **06/27/23 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		84.3 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		113 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.2 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/27/23 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGF1050	06/29/23	06/30/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/27/23 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		147 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/17/23 11:36

MW05@13'
2306563-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/27/23 10:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGG0265	07/11/23	07/11/23	EPA 8270D SIM	
Anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Chrysene	ND	0.00500		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500		"	"	"	"	"	"	
Fluoranthene	ND	0.00500		"	"	"	"	"	"	
Fluorene	ND	0.00500		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500		"	"	"	"	"	"	
Pyrene	ND	0.00500		"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	

Date Sampled: **06/27/23 10:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		59.8 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		75.6 %		40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **06/27/23 10:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	1.35	0.200		mg/kg dry	1	BGF1008	06/28/23	07/03/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/27/23 10:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-----	-------	----------	-------	----------	----------	--------	-------

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:
07/17/23 11:36

MW05@13'
2306563-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	91.3	%	1	BGF1079	06/29/23	06/29/23	Calculation
----------	------	---	---	---------	----------	----------	-------------

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

Date Sampled: **06/27/23 10:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.33			pH Units	1	BGF1071	06/29/23	06/29/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/17/23 11:36

MW05@15'
2306563-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/27/23 10:04**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF1047	06/29/23	06/30/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **06/27/23 10:04**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		87.7 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		111 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.8 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/27/23 10:04**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGF1050	06/29/23	06/30/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/27/23 10:04**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		140 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/17/23 11:36

MW05@15'
2306563-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/27/23 10:04**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGG0265	07/11/23	07/11/23	EPA 8270D SIM	
Anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Chrysene	ND	0.00500		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500		"	"	"	"	"	"	
Fluoranthene	ND	0.00500		"	"	"	"	"	"	
Fluorene	ND	0.00500		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500		"	"	"	"	"	"	
Pyrene	ND	0.00500		"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	

Date Sampled: **06/27/23 10:04**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		65.0 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		51.8 %		40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **06/27/23 10:04**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	4.62	0.200		mg/kg dry	1	BGF1008	06/28/23	07/03/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/27/23 10:04**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-----	-------	----------	-------	----------	----------	--------	-------

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:
07/17/23 11:36

MW05@15'
2306563-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	86.7	%	1	BGF1079	06/29/23	06/29/23	Calculation
----------	------	---	---	---------	----------	----------	-------------

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

Date Sampled: **06/27/23 10:04**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.74			pH Units	1	BGF1071	06/29/23	06/29/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/17/23 11:36

MW06@13'
2306563-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/27/23 10:48**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020		mg/kg	1	BGF1048	06/29/23	06/29/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	0.095	0.0038		"	"	"	"	06/29/23	"	
Gasoline Range Hydrocarbons	1400	5.0		"	10	"	"	06/29/23	"	E

Date Sampled: **06/27/23 10:48**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		262 %		50-150		"	"	06/29/23	"	S-02
Surrogate: Toluene-d8		87.6 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		1350 %		50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/27/23 10:48**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	480	50		mg/kg	1	BGF1051	06/29/23	06/29/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/27/23 10:48**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		135 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/17/23 11:36

MW06@13'
2306563-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/27/23 10:48**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGG0265	07/11/23	07/11/23	EPA 8270D SIM	
Anthracene	0.0370	0.00500		"	"	"	"	"	"	
Benzo (a) anthracene	0.0308	0.00500		"	"	"	"	"	"	
Benzo (a) pyrene	0.0156	0.00500		"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0238	0.00500		"	"	"	"	"	"	
Benzo (k) fluoranthene	0.00872	0.00500		"	"	"	"	"	"	
Chrysene	0.0577	0.00500		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500		"	"	"	"	"	"	
Fluoranthene	0.164	0.00500		"	"	"	"	"	"	
Fluorene	0.0992	0.00500		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.00995	0.00500		"	"	"	"	"	"	
Pyrene	0.117	0.00500		"	"	"	"	"	"	
1-Methylnaphthalene	0.295	0.00500		"	"	"	"	"	"	E
2-Methylnaphthalene	0.783	0.00500		"	"	"	"	"	"	E

Date Sampled: **06/27/23 10:48**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		60.3 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		90.6 %		40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **06/27/23 10:48**

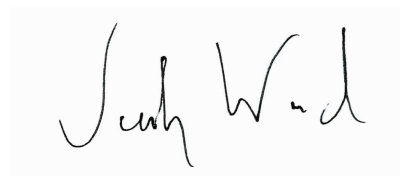
Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	5.86	0.200		mg/kg dry	1	BGF1008	06/28/23	07/03/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/27/23 10:48**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-----	-------	----------	-------	----------	----------	--------	-------

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:
07/17/23 11:36

MW06@13'
2306563-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	89.9	%	1	BGF1079	06/29/23	06/29/23	Calculation
----------	------	---	---	---------	----------	----------	-------------

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

Date Sampled: **06/27/23 10:48**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.98			pH Units	1	BGF1071	06/29/23	06/29/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/17/23 11:36

MW06@17'
2306563-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/27/23 10:53**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF1048	06/29/23	06/29/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	8.1	0.50		"	"	"	"	"	"	

Date Sampled: **06/27/23 10:53**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		117 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		90.8 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		117 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/27/23 10:53**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGF1051	06/29/23	06/29/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/27/23 10:53**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		135 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/17/23 11:36

MW06@17'
2306563-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/27/23 10:53**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGG0265	07/11/23	07/11/23	EPA 8270D SIM	
Anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Chrysene	ND	0.00500		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500		"	"	"	"	"	"	
Fluoranthene	ND	0.00500		"	"	"	"	"	"	
Fluorene	ND	0.00500		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500		"	"	"	"	"	"	
Pyrene	ND	0.00500		"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	

Date Sampled: **06/27/23 10:53**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		64.2 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		75.0 %		40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **06/27/23 10:53**

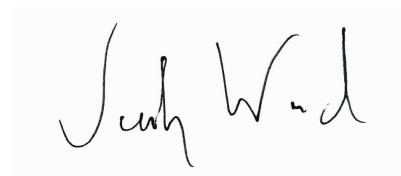
Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	2.79	0.200		mg/kg dry	1	BGF1008	06/28/23	07/03/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/27/23 10:53**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-----	-------	----------	-------	----------	----------	--------	-------

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:
07/17/23 11:36

MW06@17'
2306563-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	88.8	%	1	BGF1079	06/29/23	06/29/23	Calculation
----------	------	---	---	---------	----------	----------	-------------

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

Date Sampled: **06/27/23 10:53**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.00			pH Units	1	BGF1071	06/29/23	06/29/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/17/23 11:36

MW07@14'
2306563-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/27/23 11:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF1048	06/29/23	06/29/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **06/27/23 11:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		112 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		117 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/27/23 11:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGF1051	06/29/23	06/29/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/27/23 11:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		132 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/17/23 11:36

MW07@14'
2306563-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/27/23 11:18**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGG0265	07/11/23	07/11/23	EPA 8270D SIM	
Anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Chrysene	ND	0.00500		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500		"	"	"	"	"	"	
Fluoranthene	ND	0.00500		"	"	"	"	"	"	
Fluorene	ND	0.00500		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500		"	"	"	"	"	"	
Pyrene	ND	0.00500		"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	

Date Sampled: **06/27/23 11:18**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		52.5 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		58.5 %		40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **06/27/23 11:18**

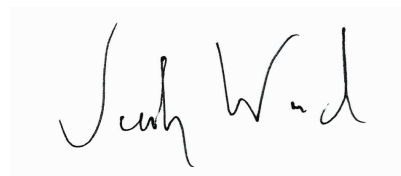
Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	1.96	0.200		mg/kg dry	1	BGF1008	06/28/23	07/03/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/27/23 11:18**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-----	-------	----------	-------	----------	----------	--------	-------

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:
07/17/23 11:36

MW07@14'
2306563-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.8	%	1	BGF1079	06/29/23	06/29/23	Calculation
----------	------	---	---	---------	----------	----------	-------------

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

Date Sampled: **06/27/23 11:18**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.12			pH Units	1	BGF1071	06/29/23	06/29/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/17/23 11:36

MW07@15'
2306563-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/27/23 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF1048	06/29/23	06/29/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **06/27/23 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		108 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		95.6 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/27/23 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGF1051	06/29/23	06/29/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/27/23 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		130 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/17/23 11:36

MW07@15'
2306563-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/27/23 11:20**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGG0265	07/11/23	07/11/23	EPA 8270D SIM	
Anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Chrysene	ND	0.00500		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500		"	"	"	"	"	"	
Fluoranthene	ND	0.00500		"	"	"	"	"	"	
Fluorene	ND	0.00500		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500		"	"	"	"	"	"	
Pyrene	ND	0.00500		"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	

Date Sampled: **06/27/23 11:20**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		59.8 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		76.4 %		40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **06/27/23 11:20**

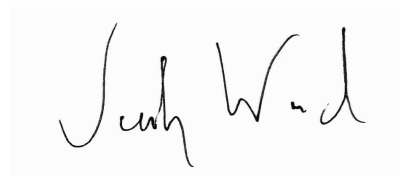
Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	1.80	0.200		mg/kg dry	1	BGF1008	06/28/23	07/03/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/27/23 11:20**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-----	-------	----------	-------	----------	----------	--------	-------

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:
07/17/23 11:36

MW07@15'
2306563-08 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	86.3	%	1	BGF1079	06/29/23	06/29/23	Calculation
----------	------	---	---	---------	----------	----------	-------------

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

Date Sampled: **06/27/23 11:20**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.08			pH Units	1	BGF1071	06/29/23	06/29/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/17/23 11:36

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 BGF1047 - EPA 5030 Soil MS

Blank (BGF1047-BLK1)

Prepared: 06/29/23 Analyzed: 06/30/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0337		"	0.0400		84.2	50-150			
Surrogate: Toluene-d8	0.0441		"	0.0400		110	50-150			
Surrogate: 4-Bromofluorobenzene	0.0373		"	0.0400		93.2	50-150			

LCS (BGF1047-BS1)

Prepared: 06/29/23 Analyzed: 06/30/23

Benzene	0.120	0.0020	mg/kg	0.125		95.9	70-130			
Toluene	0.134	0.0050	"	0.125		107	70-130			
Ethylbenzene	0.133	0.0050	"	0.125		106	70-130			
m,p-Xylene	0.296	0.010	"	0.250		118	70-130			
o-Xylene	0.136	0.0050	"	0.125		109	70-130			
1,2,4-Trimethylbenzene	0.160	0.0050	"	0.125		128	70-130			
1,3,5-Trimethylbenzene	0.155	0.0050	"	0.125		124	70-130			
Naphthalene	0.133	0.0038	"	0.125		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0345		"	0.0400		86.2	50-150			
Surrogate: Toluene-d8	0.0440		"	0.0400		110	50-150			
Surrogate: 4-Bromofluorobenzene	0.0389		"	0.0400		97.4	50-150			

Matrix Spike (BGF1047-MS1)

Source: 2306563-01

Prepared: 06/29/23 Analyzed: 06/30/23

Benzene	0.115	0.0020	mg/kg	0.125	ND	92.1	70-130			
Toluene	0.131	0.0050	"	0.125	ND	105	70-130			
Ethylbenzene	0.135	0.0050	"	0.125	ND	108	70-130			
m,p-Xylene	0.300	0.010	"	0.250	ND	120	70-130			
o-Xylene	0.143	0.0050	"	0.125	ND	114	70-130			
1,2,4-Trimethylbenzene	0.161	0.0050	"	0.125	ND	129	70-130			
1,3,5-Trimethylbenzene	0.155	0.0050	"	0.125	ND	124	70-130			
Naphthalene	0.130	0.0038	"	0.125	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0320		"	0.0400		80.0	50-150			
Surrogate: Toluene-d8	0.0419		"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.2	50-150			

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/17/23 11:36

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 BGF1047 - EPA 5030 Soil MS

Matrix Spike Dup (BGF1047-MSD1)		Source: 2306563-01			Prepared: 06/29/23 Analyzed: 06/30/23					
Benzene	0.120	0.0020	mg/kg	0.125	ND	96.2	70-130	4.36	30	
Toluene	0.136	0.0050	"	0.125	ND	109	70-130	3.30	30	
Ethylbenzene	0.133	0.0050	"	0.125	ND	106	70-130	1.37	30	
m,p-Xylene	0.291	0.010	"	0.250	ND	116	70-130	3.02	30	
o-Xylene	0.140	0.0050	"	0.125	ND	112	70-130	2.02	30	
1,2,4-Trimethylbenzene	0.134	0.0050	"	0.125	ND	108	70-130	17.9	30	
1,3,5-Trimethylbenzene	0.135	0.0050	"	0.125	ND	108	70-130	13.9	30	
Naphthalene	0.133	0.0038	"	0.125	ND	106	70-130	2.10	30	
Surrogate: 1,2-Dichloroethane-d4	0.0352		"	0.0400		87.9	50-150			
Surrogate: Toluene-d8	0.0439		"	0.0400		110	50-150			
Surrogate: 4-Bromofluorobenzene	0.0382		"	0.0400		95.6	50-150			

Batch BGF1048 - EPA 5030 Soil MS

Blank (BGF1048-BLK1)		Prepared & Analyzed: 06/29/23								
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0442		"	0.0400		110	50-150			
Surrogate: Toluene-d8	0.0401		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400		101	50-150			

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/17/23 11:36

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 BGF1048 - EPA 5030 Soil MS

LCS (BGF1048-BS1)

Prepared & Analyzed: 06/29/23

Benzene	0.140	0.0020	mg/kg	0.150		93.4	70-130			
Toluene	0.151	0.0050	"	0.150		100	70-130			
Ethylbenzene	0.177	0.0050	"	0.150		118	70-130			
m,p-Xylene	0.366	0.010	"	0.300		122	70-130			
o-Xylene	0.164	0.0050	"	0.150		110	70-130			
1,2,4-Trimethylbenzene	0.177	0.0050	"	0.150		118	70-130			
1,3,5-Trimethylbenzene	0.182	0.0050	"	0.150		121	70-130			
Naphthalene	0.168	0.0038	"	0.150		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0424		"	0.0400		106	50-150			
Surrogate: Toluene-d8	0.0391		"	0.0400		97.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400		97.6	50-150			

Matrix Spike (BGF1048-MS1)

Source: 2306538-13

Prepared & Analyzed: 06/29/23

Benzene	0.136	0.0020	mg/kg	0.150	ND	90.8	70-130			
Toluene	0.149	0.0050	"	0.150	ND	99.2	70-130			
Ethylbenzene	0.168	0.0050	"	0.150	ND	112	70-130			
m,p-Xylene	0.347	0.010	"	0.300	ND	116	70-130			
o-Xylene	0.160	0.0050	"	0.150	ND	107	70-130			
1,2,4-Trimethylbenzene	0.171	0.0050	"	0.150	ND	114	70-130			
1,3,5-Trimethylbenzene	0.174	0.0050	"	0.150	ND	116	70-130			
Naphthalene	0.192	0.0038	"	0.150	ND	128	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0450		"	0.0400		113	50-150			
Surrogate: Toluene-d8	0.0392		"	0.0400		98.1	50-150			
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400		98.8	50-150			

Matrix Spike Dup (BGF1048-MSD1)

Source: 2306538-13

Prepared & Analyzed: 06/29/23

Benzene	0.124	0.0020	mg/kg	0.150	ND	82.9	70-130	9.12	30	
Toluene	0.136	0.0050	"	0.150	ND	90.9	70-130	8.75	30	
Ethylbenzene	0.162	0.0050	"	0.150	ND	108	70-130	3.50	30	
m,p-Xylene	0.333	0.010	"	0.300	ND	111	70-130	4.15	30	
o-Xylene	0.155	0.0050	"	0.150	ND	103	70-130	3.20	30	
1,2,4-Trimethylbenzene	0.158	0.0050	"	0.150	ND	105	70-130	7.55	30	
1,3,5-Trimethylbenzene	0.162	0.0050	"	0.150	ND	108	70-130	6.79	30	
Naphthalene	0.186	0.0038	"	0.150	ND	124	70-130	3.04	30	
Surrogate: 1,2-Dichloroethane-d4	0.0436		"	0.0400		109	50-150			
Surrogate: Toluene-d8	0.0382		"	0.0400		95.6	50-150			
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400		98.8	50-150			

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/17/23 11:36

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGF1050 - EPA 3550A

Blank (BGF1050-BLK1)

Prepared: 06/29/23 Analyzed: 06/30/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	17.9		"	12.5		143	30-150			

LCS (BGF1050-BS1)

Prepared: 06/29/23 Analyzed: 06/30/23

C10-C28 (DRO)	629	50	mg/kg	500		126	70-130			
Surrogate: o-Terphenyl	17.3		"	12.5		138	30-150			

Matrix Spike (BGF1050-MS1)

Source: 2306593-01

Prepared: 06/29/23 Analyzed: 06/30/23

C10-C28 (DRO)	647	50	mg/kg	500	10.7	127	70-130			
Surrogate: o-Terphenyl	17.4		"	12.5		140	30-150			

Matrix Spike Dup (BGF1050-MSD1)

Source: 2306593-01

Prepared: 06/29/23 Analyzed: 06/30/23

C10-C28 (DRO)	662	50	mg/kg	500	10.7	130	70-130	2.21	20	
Surrogate: o-Terphenyl	17.5		"	12.5		140	30-150			

Batch BGF1051 - EPA 3550A

Blank (BGF1051-BLK1)

Prepared & Analyzed: 06/29/23


C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	16.8		"	12.5		134	30-150			

LCS (BGF1051-BS1)

Prepared & Analyzed: 06/29/23

C10-C28 (DRO)	570	50	mg/kg	500		114	70-130			
Surrogate: o-Terphenyl	16.7		"	12.5		133	30-150			

Summit Scientific



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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/17/23 11:36

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGF1051 - EPA 3550A

Matrix Spike (BGF1051-MS1)

Source: 2306538-13

Prepared & Analyzed: 06/29/23

C10-C28 (DRO)	586	50	mg/kg	500	9.36	115	70-130			
Surrogate: o-Terphenyl	16.2		"	12.5		129	30-150			

Matrix Spike Dup (BGF1051-MSD1)

Source: 2306538-13

Prepared & Analyzed: 06/29/23

C10-C28 (DRO)	667	50	mg/kg	500	9.36	132	70-130	12.9	20	QM-07
Surrogate: o-Terphenyl	17.4		"	12.5		139	30-150			

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/17/23 11:36

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 BGG0265 - EPA 5030 Soil MS

Blank (BGG0265-BLK1)

Prepared & Analyzed: 07/11/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0306		"	0.0333		91.7	40-150			
Surrogate: Fluoranthene-d10	0.0360		"	0.0333		108	40-150			

LCS (BGG0265-BS1)

Prepared & Analyzed: 07/11/23

Acenaphthene	0.0340	0.00500	mg/kg	0.0333		102	31-137			
Anthracene	0.0335	0.00500	"	0.0333		101	30-120			
Benzo (a) anthracene	0.0352	0.00500	"	0.0333		106	30-120			
Benzo (a) pyrene	0.0322	0.00500	"	0.0333		96.5	30-120			
Benzo (b) fluoranthene	0.0341	0.00500	"	0.0333		102	30-120			
Benzo (k) fluoranthene	0.0332	0.00500	"	0.0333		99.6	30-120			
Chrysene	0.0339	0.00500	"	0.0333		102	30-120			
Dibenz (a,h) anthracene	0.0313	0.00500	"	0.0333		93.8	30-120			
Fluoranthene	0.0343	0.00500	"	0.0333		103	30-120			
Fluorene	0.0335	0.00500	"	0.0333		101	30-120			
Indeno (1,2,3-cd) pyrene	0.0247	0.00500	"	0.0333		74.0	30-120			
Pyrene	0.0352	0.00500	"	0.0333		106	35-142			
1-Methylnaphthalene	0.0308	0.00500	"	0.0333		92.3	35-142			
2-Methylnaphthalene	0.0355	0.00500	"	0.0333		106	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0313		"	0.0333		94.0	40-150			
Surrogate: Fluoranthene-d10	0.0399		"	0.0333		120	40-150			

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/17/23 11:36

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 BGG0265 - EPA 5030 Soil MS

Matrix Spike (BGG0265-MS1)

Source: 2306563-01

Prepared & Analyzed: 07/11/23

Acenaphthene	0.0244	0.00500	mg/kg	0.0333	ND	73.2	31-137				
Anthracene	0.0236	0.00500	"	0.0333	ND	70.7	30-120				
Benzo (a) anthracene	0.0256	0.00500	"	0.0333	ND	76.9	30-120				
Benzo (a) pyrene	0.0225	0.00500	"	0.0333	ND	67.5	30-120				
Benzo (b) fluoranthene	0.0246	0.00500	"	0.0333	ND	73.8	30-120				
Benzo (k) fluoranthene	0.0242	0.00500	"	0.0333	ND	72.6	30-120				
Chrysene	0.0244	0.00500	"	0.0333	ND	73.1	30-120				
Dibenz (a,h) anthracene	0.0222	0.00500	"	0.0333	ND	66.6	30-120				
Fluoranthene	0.0243	0.00500	"	0.0333	ND	72.8	30-120				
Fluorene	0.0241	0.00500	"	0.0333	ND	72.2	30-120				
Indeno (1,2,3-cd) pyrene	0.0170	0.00500	"	0.0333	ND	50.9	30-120				
Pyrene	0.0262	0.00500	"	0.0333	ND	78.5	35-142				
1-Methylnaphthalene	0.0218	0.00500	"	0.0333	ND	65.3	15-130				
2-Methylnaphthalene	0.0247	0.00500	"	0.0333	ND	74.0	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0230		"	0.0333		69.0	40-150				
Surrogate: Fluoranthene-d10	0.0285		"	0.0333		85.5	40-150				

Matrix Spike Dup (BGG0265-MSD1)

Source: 2306563-01

Prepared & Analyzed: 07/11/23

Acenaphthene	0.0222	0.00500	mg/kg	0.0333	ND	66.7	31-137	9.21	30
Anthracene	0.0217	0.00500	"	0.0333	ND	65.0	30-120	8.36	30
Benzo (a) anthracene	0.0237	0.00500	"	0.0333	ND	71.0	30-120	7.89	30
Benzo (a) pyrene	0.0206	0.00500	"	0.0333	ND	61.9	30-120	8.58	30
Benzo (b) fluoranthene	0.0219	0.00500	"	0.0333	ND	65.6	30-120	11.9	30
Benzo (k) fluoranthene	0.0217	0.00500	"	0.0333	ND	65.2	30-120	10.8	30
Chrysene	0.0219	0.00500	"	0.0333	ND	65.7	30-120	10.7	30
Dibenz (a,h) anthracene	0.0197	0.00500	"	0.0333	ND	59.1	30-120	11.9	30
Fluoranthene	0.0221	0.00500	"	0.0333	ND	66.2	30-120	9.50	30
Fluorene	0.0219	0.00500	"	0.0333	ND	65.7	30-120	9.46	30
Indeno (1,2,3-cd) pyrene	0.0154	0.00500	"	0.0333	ND	46.2	30-120	9.66	30
Pyrene	0.0236	0.00500	"	0.0333	ND	70.7	35-142	10.4	30
1-Methylnaphthalene	0.0211	0.00500	"	0.0333	ND	63.4	15-130	2.95	50
2-Methylnaphthalene	0.0210	0.00500	"	0.0333	ND	63.0	15-130	16.1	50
Surrogate: 2-Methylnaphthalene-d10	0.0235		"	0.0333		70.5	40-150		
Surrogate: Fluoranthene-d10	0.0258		"	0.0333		77.5	40-150		

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/17/23 11:36

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGF1008 - EPA 3050B

Blank (BGF1008-BLK1)

Prepared: 06/28/23 Analyzed: 07/02/23

Lead ND 0.200 mg/kg wet

LCS (BGF1008-BS1)

Prepared: 06/28/23 Analyzed: 07/02/23

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

Duplicate (BGF1008-DUP1)

Source: 2305459-03

Prepared: 06/28/23 Analyzed: 07/02/23

Lead 25.9 0.200 mg/kg dry 5.22 133 20 QR-04

Matrix Spike (BGF1008-MS1)

Source: 2305459-03

Prepared: 06/28/23 Analyzed: 07/02/23

Lead 14.3 0.200 mg/kg dry 23.2 5.22 39.2 75-125 QM-07

Matrix Spike Dup (BGF1008-MSD1)

Source: 2305459-03

Prepared: 06/28/23 Analyzed: 07/02/23

Lead 10.3 0.200 mg/kg dry 23.2 5.22 21.8 75-125 32.9 25 QM-07

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:

07/17/23 11:36

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

Summit Scientific

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

Batch BGF1079 - General Preparation

Duplicate (BGF1079-DUP1)		Source: 2306563-01		Prepared & Analyzed: 06/29/23	
% Solids	72.3		%	71.3	1.45 20

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/17/23 11:36

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

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

Batch BGF1071 - General Preparation

LCS (BGF1071-BS1)

Prepared & Analyzed: 06/29/23

pH	9.01	pH Units	9.18	98.1	95-105
----	------	----------	------	------	--------

Duplicate (BGF1071-DUP1)

Source: 2306351-03

Prepared & Analyzed: 06/29/23

pH	6.68	pH Units	6.64	0.601	20
----	------	----------	------	-------	----

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/17/23 11:36

Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
QR-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.
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.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 13, 2023

Sam Vogt

Tasman Geosciences

6855 W. 119th Ave.

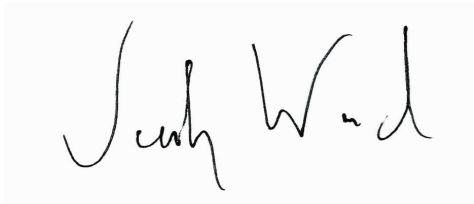
Broomfield, CO 80020

RE: Civitas - Culver 5-17 Tank Battery

Work Order #2306644

Enclosed are the results of analyses for samples received by Summit Scientific on 06/29/23 18:00. 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:
07/13/23 14:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW08@8'	2306644-01	Soil	06/28/23 09:40	06/29/23 18:00
MW08@15'	2306644-02	Soil	06/28/23 10:05	06/29/23 18:00
MW09@7'	2306644-03	Soil	06/28/23 10:33	06/29/23 18:00
MW09@15'	2306644-04	Soil	06/28/23 10:38	06/29/23 18:00
MW10@7'	2306644-05	Soil	06/28/23 11:13	06/29/23 18:00
MW10@15'	2306644-06	Soil	06/28/23 11:20	06/29/23 18:00
MW11@8'	2306644-07	Soil	06/28/23 12:35	06/29/23 18:00
MW11@15'	2306644-08	Soil	06/28/23 12:40	06/29/23 18:00
MW12@7'	2306644-09	Soil	06/28/23 12:58	06/29/23 18:00
MW12@15'	2306644-10	Soil	06/28/23 13:06	06/29/23 18:00
BG01@6'	2306644-11	Soil	06/28/23 13:40	06/29/23 18:00
BG01@8'	2306644-12	Soil	06/28/23 13:42	06/29/23 18:00
BG01@10'	2306644-13	Soil	06/28/23 13:46	06/29/23 18:00
BG01@12'	2306644-14	Soil	06/28/23 13:54	06/29/23 18:00
BG01@14'	2306644-15	Soil	06/28/23 13:56	06/29/23 18:00
BG02@6'	2306644-16	Soil	06/28/23 14:16	06/29/23 18:00
BG02@8'	2306644-17	Soil	06/28/23 14:18	06/29/23 18:00
BG02@10'	2306644-18	Soil	06/28/23 14:21	06/29/23 18:00
BG02@12'	2306644-19	Soil	06/28/23 14:30	06/29/23 18:00
BG02@14'	2306644-20	Soil	06/28/23 14:32	06/29/23 18:00
BG03@6'	2306644-21	Soil	06/28/23 14:50	06/29/23 18:00
BG03@8'	2306644-22	Soil	06/28/23 14:53	06/29/23 18:00
BG03@10'	2306644-23	Soil	06/28/23 14:59	06/29/23 18:00
BG03@12'	2306644-24	Soil	06/28/23 15:06	06/29/23 18:00
BG03@14'	2306644-25	Soil	06/28/23 15:08	06/29/23 18:00
BG03@20'	2306644-26	Soil	06/28/23 15:12	06/29/23 18:00
BG04@6'	2306644-27	Soil	06/28/23 15:35	06/29/23 18:00

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:
07/13/23 14:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BG04@8'	2306644-28	Soil	06/28/23 15:36	06/29/23 18:00
BG04@10'	2306644-29	Soil	06/28/23 15:40	06/29/23 18:00
BG04@12'	2306644-30	Soil	06/28/23 15:48	06/29/23 18:00
BG04@14'	2306644-31	Soil	06/28/23 15:52	06/29/23 18:00
BG04@20'	2306644-32	Soil	06/28/23 15:58	06/29/23 18:00

Case Narrative

Sam Vogt requested PAH be added to MW samples on 7/6/2023. This report includes those results.

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.

Send Data To:		Send Invoice To:
Client: Civitas/Tasman	Project Manager: Sam Vogt/Jacob Evans	Company: <i>Civitas Resources</i>
Address: 6855 W. 119th Ave	E-Mail: svgot@tasman-geo.com; jevans@civiresources.com	Project Name/Location: <i>Culver 5-17 Tank Battery</i>
City/State/Zip: Broomfield, CO 80020		AFE#:
Phone: PM (610) 405-9078	Project Name: <i>Culver 5-17 Tank Battery</i>	PO/Billing Codes:
Sampler Name: <i>Chris Girardi</i>	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)	pH, EC, SAR Pat. Lead	pH, EC, SAR Boron	Metals	
1	MW 8' c 8'	6/28/23	0940	2			X			X			X	X	X	X	X		pH, EC, SAR by Saturated paste preparation method
2	MW 8' c 15'		1005										X	X	X	X			Boron by Hot Water Soluble preparation Method
3	MW 8' c 7'		1033																Table 915 Metals - As, Ba, Cd,
4	MW 8' c 15'		1038																Cu, Pb, Ni, Se, Ag, Zn,
5	MW 14' c 7'		1113																Cr VI
6	MW 14' c 15'		1120																
7	MW 11' c 8'		1235																
8	MW 11' c 15'		1240																
9	MW 12' c 7'		1258																
10	MW 12' c 15'		1306																
11	BG 41' c 6'		1340	1															
12	BG 41' c 8'		1342	1															
13	BG 41' c 10'		1344	1															
14	BG 41' c 12'		1354	1															
15	BG 41' c 14'		1356	1															

Relinquished by: <i>Chris Girardi</i>	Date/Time: 6/28/23 1115	Received by: Tasman Lockbox	Date/Time: 6/28/23 1115	TAT Business Days	Field DO	Notes:
Relinquished by: <i>Tasman Lockbox</i>	Date/Time: 6/29/23 1200	Received by: <i>[Signature]</i>	Date/Time: 6/29/23 1200	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	X Field Turb.	
Temperature Upon Receipt: 9.9	Corrected Temperature: 9	IR gun #: 1	HNO3 lot #:			

		Send Data To:	Send Invoice To:
Client: Civitas/Tasman		Project Manager: Sam Vogt/Jacob Evans	Company:
Address: 6855 W. 119th Ave		E-Mail: svgot@tasman-geo.com; jevans@civiresources.com	Project Name/Location:
City/State/Zip: Broomfield, CO 80020			AFE#:
Phone: PM (610) 405-9078		Project Name: <u>Culver S-17 Tank Battery</u>	PO/Billing Codes:
Sampler Name: <u>Chris Girardi</u>		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)	PAHs	pH, EC, SAR	Boron Lead	Metals		
1	BG42 e 6'	6/28/23	1416	1			X			X								X	X		pH, EC, SAR by Saturated paste preparation method Boron by Hot Water Soluble preparation Method Table 915 Metals - As, Ba, Cd, Cu, Pb, Ni, Se, Ag, Zn, Cr VI
2	BG42 e 8'		1418	1																	
3	BG42 e 10'		1421	1																	
4	BG42 e 12'		1430	1																	
5	BG42 e 14'		1432	1																	
6	BG43 e 6'		1450	1																	
7	BG43 e 8'		1453	1																	
8	BG43 e 10'		1459	1																	
9	BG43 e 12'		1506	1																	
10	BG43 e 14'		1508	1																	
11	BG43 e 20'		1512	1																	
12	BG44 e 6'		1535	1																	
13	BG44 e 8'		1536	1																	
14	BG44 e 10'		1540	1																	
15	BG44 e 12'		1548	1																	

Relinquished by: <u>Chris Girardi</u>	Date/Time: <u>6/28/23 1115</u>	Received by: Tasman Lockbox	Date/Time: <u>6/28/23 1115</u>	TAT Business Days	Field DO	Notes:
Relinquished by: <u>Tasman Lockbox</u>	Date/Time: <u>6/29/23 6800</u>	Received by: <u>[Signature]</u>	Date/Time: <u>6/29/23 1800</u>	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: <u>9.9</u>	Corrected Temperature: <u>8</u>	IR gun #: <u>1</u>	HNO3 lot #: <u></u>	Standard	X Field Turb.	

Client: Civitas/Tasman		Send Data To:		Send Invoice To:	
Address: 6855 W. 119th Ave		Project Manager: Sam Vogt/Jacob Evans		Company:	
City/State/Zip: Broomfield, CO 80020		E-Mail: svgot@tasman-geo.com; jevans@civiresources.com		Project Name/Location:	
Phone: PM (610) 405-9078		Project Name: Culver S-17 Tank Battery		AFE#:	
Sampler Name: Chris Girard		Project Number:		PO/Billing Codes:	
				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)	PAHs	pH, EC, SAR	Boron	Lead	Metals	pH, EC, SAR by Saturated paste preparation method Boron by Hot Water Soluble preparation Method Table 915 Metals - As, Ba, Cd, Cu, Pb, Ni, Se, Ag, Zn, Cr VI	
1	BG4 e 14'	6/28/23	1552	1			X			X							X	X				
2	BG4 e 20'	↓	1558	1			X			X							X	X				
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						

Relinquished by: Chris Girard	Date/Time: 6/28/23 1115	Received by: Tasman Lockbox	Date/Time: 6/28/23 1115	TAT Business Days	Field DO	Notes:
Relinquished by: Tasman Lockbox	Date/Time: 6/29/23 1800	Received by: [Signature]	Date/Time: 6/29/23 1800	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	X Field Turb.	
Temperature Upon Receipt: 9.9	Corrected Temperature: 9	IR gun #:		HNO3 lot #:		

S₂

3/3
Sample Receipt Checklist

S2 Work Order# 2306644

Client: Antastasman Client Project ID: Culver S-17 Tank Battery

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

☐ ☐ ☐ ☐ ☐

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

Temp (°C) 9.9

Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ICE
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" 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 ²⁺), Hexavalent Chromium (Cr ⁶⁺ , 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? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Some sample labels did not match
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

AS
Custodian Printed Name

6/29/23
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:
07/13/23 14:54

MW08@8'
2306644-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/28/23 09:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGG0054	07/03/23	07/04/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/28/23 09:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0403	101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0471	118 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0487	122 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/28/23 09:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGG0055	07/03/23	07/04/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/28/23 09:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.2	81.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

MW08@8'
2306644-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/28/23 09:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BGG0267	07/11/23	07/12/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/28/23 09:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0163	48.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0215	64.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **06/28/23 09:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Lead	7.74	0.200	mg/kg dry	1	BGF1100	06/30/23	07/02/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/28/23 09:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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:
07/13/23 14:54

MW08@8'
2306644-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.3	%	1	BGG0044	07/03/23	07/03/23	Calculation
----------	------	---	---	---------	----------	----------	-------------

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

Date Sampled: **06/28/23 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.12		pH Units	1	BGG0040	07/03/23	07/03/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

MW08@15'
2306644-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/28/23 10:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGG0054	07/03/23	07/04/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/28/23 10:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0359	89.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0470	118 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0470	117 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/28/23 10:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGG0055	07/03/23	07/04/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/28/23 10:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.57	76.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

MW08@15'
2306644-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/28/23 10:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Acenaphthene	ND	0.00500	mg/kg	1	BGG0267	07/11/23	07/12/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/28/23 10:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10	0.0169	50.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0185	55.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **06/28/23 10:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Lead	3.05	0.200	mg/kg dry	1	BGF1100	06/30/23	07/02/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/28/23 10:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

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:
07/13/23 14:54

MW08@15'
2306644-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	88.3	%	1	BGG0044	07/03/23	07/03/23	Calculation
----------	------	---	---	---------	----------	----------	-------------

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

Date Sampled: **06/28/23 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.24		pH Units	1	BGG0040	07/03/23	07/03/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

MW09@7'
2306644-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/28/23 10:33**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGG0054	07/03/23	07/04/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/28/23 10:33**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0417	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0440	110 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0490	122 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/28/23 10:33**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGG0055	07/03/23	07/04/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/28/23 10:33**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.1	96.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

MW09@7'
2306644-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/28/23 10:33**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BGG0267	07/11/23	07/12/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/28/23 10:33**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0177	53.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0224	67.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **06/28/23 10:33**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Lead	7.00	0.200	mg/kg dry	1	BGF1100	06/30/23	07/02/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/28/23 10:33**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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:
07/13/23 14:54

MW09@7'
2306644-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.1	%	1	BGG0044	07/03/23	07/03/23	Calculation
----------	------	---	---	---------	----------	----------	-------------

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

Date Sampled: **06/28/23 10:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.85		pH Units	1	BGG0040	07/03/23	07/03/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

MW09@15'
2306644-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/28/23 10:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGG0054	07/03/23	07/04/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/28/23 10:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0362	90.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0457	114 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0482	120 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/28/23 10:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGG0055	07/03/23	07/04/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/28/23 10:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.3	90.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

MW09@15'
2306644-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/28/23 10:38**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Acenaphthene	ND	0.00500	mg/kg	1	BGG0267	07/11/23	07/12/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/28/23 10:38**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10	0.0162	48.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0173	51.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **06/28/23 10:38**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Lead	2.52	0.200	mg/kg dry	1	BGF1100	06/30/23	07/02/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/28/23 10:38**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

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:
07/13/23 14:54

MW09@15'
2306644-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	91.5	%	1	BGG0044	07/03/23	07/03/23	Calculation
----------	------	---	---	---------	----------	----------	-------------

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

Date Sampled: **06/28/23 10:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.29		pH Units	1	BGG0040	07/03/23	07/03/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

MW10@7'
2306644-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/28/23 11:13**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGG0054	07/03/23	07/04/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/28/23 11:13**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0381	95.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0457	114 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0476	119 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/28/23 11:13**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGG0055	07/03/23	07/04/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/28/23 11:13**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	14.3	115 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

MW10@7'
2306644-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/28/23 11:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGG0267	07/11/23	07/12/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/28/23 11:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0186	55.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0225	67.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **06/28/23 11:13**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	7.27	0.200	mg/kg dry	1	BGF1101	06/30/23	07/03/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/28/23 11:13**

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

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:
07/13/23 14:54

MW10@7'
2306644-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.6	%	1	BGG0044	07/03/23	07/03/23	Calculation
----------	------	---	---	---------	----------	----------	-------------

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

Date Sampled: **06/28/23 11:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.04		pH Units	1	BGG0040	07/03/23	07/03/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

MW10@15'
2306644-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/28/23 11:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGG0054	07/03/23	07/04/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/28/23 11:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0356	89.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0455	114 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0470	117 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/28/23 11:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGG0055	07/03/23	07/04/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/28/23 11:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.72	61.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

MW10@15'
2306644-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/28/23 11:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Acenaphthene	ND	0.00500	mg/kg	1	BGG0267	07/11/23	07/12/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/28/23 11:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10	0.0173	52.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0214	64.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **06/28/23 11:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Lead	2.53	0.200	mg/kg dry	1	BGF1101	06/30/23	07/03/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/28/23 11:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

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:
07/13/23 14:54

MW10@15'
2306644-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	90.3	%	1	BGG0044	07/03/23	07/03/23	Calculation
----------	------	---	---	---------	----------	----------	-------------

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

Date Sampled: **06/28/23 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.28		pH Units	1	BGG0040	07/03/23	07/03/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

MW11@8'
2306644-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/28/23 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGG0054	07/03/23	07/04/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/28/23 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0385	96.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0461	115 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0471	118 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/28/23 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGG0055	07/03/23	07/04/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/28/23 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.6	85.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

MW11@8'
2306644-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/28/23 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGG0267	07/11/23	07/12/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/28/23 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0199	59.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0261	78.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **06/28/23 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	10.9	0.200	mg/kg dry	1	BGF1101	06/30/23	07/03/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/28/23 12:35**

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

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:
07/13/23 14:54

MW11@8'
2306644-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	79.0	%	1	BGG0044	07/03/23	07/03/23	Calculation
----------	------	---	---	---------	----------	----------	-------------

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

Date Sampled: **06/28/23 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.70		pH Units	1	BGG0040	07/03/23	07/03/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

MW11@15'
2306644-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/28/23 12:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGG0054	07/03/23	07/04/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/28/23 12:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0364	91.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0464	116 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0474	118 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/28/23 12:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGG0055	07/03/23	07/04/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/28/23 12:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.7	85.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

MW11@15'
2306644-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/28/23 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGG0267	07/11/23	07/12/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/28/23 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0191	57.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0229	68.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **06/28/23 12:40**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	24.1	0.200	mg/kg dry	1	BGF1101	06/30/23	07/03/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/28/23 12:40**

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

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:
07/13/23 14:54

MW11@15'
2306644-08 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	13.3	%	1	BGG0044	07/03/23	07/03/23	Calculation
----------	------	---	---	---------	----------	----------	-------------

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

Date Sampled: **06/28/23 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.88		pH Units	1	BGG0040	07/03/23	07/03/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

MW12@7'
2306644-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/28/23 12:58**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGG0054	07/03/23	07/04/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/28/23 12:58**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0388	97.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0458	114 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0475	119 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/28/23 12:58**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGG0055	07/03/23	07/04/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/28/23 12:58**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	13.9	111 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

MW12@7'
2306644-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/28/23 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGG0267	07/11/23	07/12/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/28/23 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0201	60.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0228	68.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **06/28/23 12:58**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	13.9	0.200	mg/kg dry	1	BGF1124	06/30/23	07/02/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/28/23 12:58**

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

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:
07/13/23 14:54

MW12@7'
2306644-09 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	79.0	%	1	BGG0044	07/03/23	07/03/23	Calculation
----------	------	---	---	---------	----------	----------	-------------

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

Date Sampled: **06/28/23 12:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.61		pH Units	1	BGG0040	07/03/23	07/03/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

MW12@15'
2306644-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/28/23 13:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGG0054	07/03/23	07/04/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/28/23 13:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0370	92.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0465	116 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0476	119 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/28/23 13:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGG0055	07/03/23	07/04/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/28/23 13:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.1	96.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

MW12@15'
2306644-10 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/28/23 13:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGG0267	07/11/23	07/12/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/28/23 13:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0206	61.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0242	72.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **06/28/23 13:06**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	2.08	0.200	mg/kg dry	1	BGF1124	06/30/23	07/02/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/28/23 13:06**

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

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:
07/13/23 14:54

MW12@15'
2306644-10 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	89.9	%	1	BGG0044	07/03/23	07/03/23	Calculation
----------	------	---	---	---------	----------	----------	-------------

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

Date Sampled: **06/28/23 13:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.55		pH Units	1	BGG0040	07/03/23	07/03/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

BG01@6'
2306644-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/28/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	14.4	0.200	mg/kg dry	1	BGF1124	06/30/23	07/02/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/28/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.8		%	1	BGG0044	07/03/23	07/03/23	Calculation	

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

Date Sampled: **06/28/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.87		pH Units	1	BGG0040	07/03/23	07/03/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

BG01@8'
2306644-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/28/23 13:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	14.5	0.200	mg/kg dry	1	BGF1124	06/30/23	07/02/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/28/23 13:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	72.7		%	1	BGG0044	07/03/23	07/03/23	Calculation	

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

Date Sampled: **06/28/23 13:42**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.99		pH Units	1	BGG0045	07/03/23	07/03/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

BG01@10'
2306644-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/28/23 13:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	1.94	0.200	mg/kg dry	1	BGF1124	06/30/23	07/02/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/28/23 13:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.5		%	1	BGG0044	07/03/23	07/03/23	Calculation	

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

Date Sampled: **06/28/23 13:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.65		pH Units	1	BGG0045	07/03/23	07/03/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

BG01@12'
2306644-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/28/23 13:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	2.79	0.200	mg/kg dry	1	BGF1124	06/30/23	07/02/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/28/23 13:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.3		%	1	BGG0044	07/03/23	07/03/23	Calculation	

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

Date Sampled: **06/28/23 13:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.76		pH Units	1	BGG0045	07/03/23	07/03/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

BG01@14'
2306644-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/28/23 13:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	6.15	0.200	mg/kg dry	1	BGF1124	06/30/23	07/02/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/28/23 13:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.8		%	1	BGG0044	07/03/23	07/03/23	Calculation	

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

Date Sampled: **06/28/23 13:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.07		pH Units	1	BGG0045	07/03/23	07/03/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

BG02@6'
2306644-16 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/28/23 14:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	14.5	0.200	mg/kg dry	1	BGF1124	06/30/23	07/02/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/28/23 14:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.1		%	1	BGG0044	07/03/23	07/03/23	Calculation	

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

Date Sampled: **06/28/23 14:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.97		pH Units	1	BGG0045	07/03/23	07/03/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

BG02@8'
2306644-17 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/28/23 14:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	14.7	0.200	mg/kg dry	1	BGF1124	06/30/23	07/02/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/28/23 14:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.0		%	1	BGG0044	07/03/23	07/03/23	Calculation	

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

Date Sampled: **06/28/23 14:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.67		pH Units	1	BGG0045	07/03/23	07/03/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

BG02@10'
2306644-18 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/28/23 14:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	3.47	0.200	mg/kg dry	1	BGF1124	06/30/23	07/02/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/28/23 14:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.1		%	1	BGG0044	07/03/23	07/03/23	Calculation	

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

Date Sampled: **06/28/23 14:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.91		pH Units	1	BGG0045	07/03/23	07/03/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

BG02@12'
2306644-19 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/28/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	1.37	0.200	mg/kg dry	1	BGF1124	06/30/23	07/02/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/28/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.6		%	1	BGG0044	07/03/23	07/03/23	Calculation	

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

Date Sampled: **06/28/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.73		pH Units	1	BGG0045	07/03/23	07/03/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

BG02@14'
2306644-20 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/28/23 14:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	1.54	0.200	mg/kg dry	1	BGF1124	06/30/23	07/02/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/28/23 14:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	73.3		%	1	BGG0044	07/03/23	07/03/23	Calculation	

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

Date Sampled: **06/28/23 14:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.09		pH Units	1	BGG0045	07/03/23	07/03/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

BG03@6'
2306644-21 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/28/23 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	11.9	0.200	mg/kg dry	1	BGF1124	06/30/23	07/02/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/28/23 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.8		%	1	BGG0044	07/03/23	07/03/23	Calculation	

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

Date Sampled: **06/28/23 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.04		pH Units	1	BGG0045	07/03/23	07/03/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

BG03@8'
2306644-22 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/28/23 14:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	9.46	0.200	mg/kg dry	1	BGF1124	06/30/23	07/02/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/28/23 14:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	67.2		%	1	BGG0044	07/03/23	07/03/23	Calculation	

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

Date Sampled: **06/28/23 14:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.91		pH Units	1	BGG0045	07/03/23	07/03/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

BG03@10'
2306644-23 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/28/23 14:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	7.47	0.200	mg/kg dry	1	BGF1124	06/30/23	07/02/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/28/23 14:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.8		%	1	BGG0044	07/03/23	07/03/23	Calculation	

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

Date Sampled: **06/28/23 14:59**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.99		pH Units	1	BGG0045	07/03/23	07/03/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

BG03@12'
2306644-24 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/28/23 15:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	9.62	0.200	mg/kg dry	1	BGF1124	06/30/23	07/02/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/28/23 15:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.4		%	1	BGG0044	07/03/23	07/03/23	Calculation	

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

Date Sampled: **06/28/23 15:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.72		pH Units	1	BGG0045	07/03/23	07/03/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

BG03@14'
2306644-25 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/28/23 15:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	2.23	0.200	mg/kg dry	1	BGF1124	06/30/23	07/02/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/28/23 15:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.9		%	1	BGG0044	07/03/23	07/03/23	Calculation	

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

Date Sampled: **06/28/23 15:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.40		pH Units	1	BGG0045	07/03/23	07/03/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

BG03@20'
2306644-26 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/28/23 15:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	2.31	0.200	mg/kg dry	1	BGF1124	06/30/23	07/02/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/28/23 15:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.8		%	1	BGG0044	07/03/23	07/03/23	Calculation	

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

Date Sampled: **06/28/23 15:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.82		pH Units	1	BGG0045	07/03/23	07/03/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

BG04@6'
2306644-27 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/28/23 15:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	11.1	0.200	mg/kg dry	1	BGG0114	07/06/23	07/07/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/28/23 15:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.4		%	1	BGG0044	07/03/23	07/03/23	Calculation	

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

Date Sampled: **06/28/23 15:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.02		pH Units	1	BGG0045	07/03/23	07/03/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

BG04@8'
2306644-28 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/28/23 15:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	9.28	0.200	mg/kg dry	1	BGG0114	07/06/23	07/07/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/28/23 15:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.1		%	1	BGG0044	07/03/23	07/03/23	Calculation	

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

Date Sampled: **06/28/23 15:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.83		pH Units	1	BGG0045	07/03/23	07/03/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

BG04@10'
2306644-29 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/28/23 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	7.79	0.200	mg/kg dry	1	BGG0114	07/06/23	07/07/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/28/23 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.0		%	1	BGG0044	07/03/23	07/03/23	Calculation	

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

Date Sampled: **06/28/23 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.08		pH Units	1	BGG0045	07/03/23	07/03/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

BG04@12'
2306644-30 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/28/23 15:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	8.01	0.200	mg/kg dry	1	BGG0114	07/06/23	07/07/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/28/23 15:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.9		%	1	BGG0044	07/03/23	07/03/23	Calculation	

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

Date Sampled: **06/28/23 15:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.63		pH Units	1	BGG0045	07/03/23	07/03/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

BG04@14'
2306644-31 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/28/23 15:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	3.10	0.200	mg/kg dry	1	BGG0114	07/06/23	07/07/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/28/23 15:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.1		%	1	BGG0044	07/03/23	07/03/23	Calculation	

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

Date Sampled: **06/28/23 15:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.65		pH Units	1	BGG0045	07/03/23	07/03/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

BG04@20'
2306644-32 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/28/23 15:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	7.02	0.200	mg/kg dry	1	BGG0114	07/06/23	07/07/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/28/23 15:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.8		%	1	BGG0044	07/03/23	07/03/23	Calculation	

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

Date Sampled: **06/28/23 15:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.12		pH Units	1	BGG0045	07/03/23	07/03/23	EPA 9045D	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

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 BGG0054 - EPA 5030 Soil MS

Blank (BGG0054-BLK1)

Prepared & Analyzed: 07/03/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0413		"	0.0400		103	50-150			
Surrogate: Toluene-d8	0.0451		"	0.0400		113	50-150			
Surrogate: 4-Bromofluorobenzene	0.0468		"	0.0400		117	50-150			

LCS (BGG0054-BS1)

Prepared & Analyzed: 07/03/23

Benzene	0.114	0.0020	mg/kg	0.125		90.9	70-130			
Toluene	0.149	0.0050	"	0.125		119	70-130			
Ethylbenzene	0.135	0.0050	"	0.125		108	70-130			
m,p-Xylene	0.283	0.010	"	0.250		113	70-130			
o-Xylene	0.134	0.0050	"	0.125		108	70-130			
1,2,4-Trimethylbenzene	0.162	0.0050	"	0.125		130	70-130			
1,3,5-Trimethylbenzene	0.161	0.0050	"	0.125		129	70-130			
Naphthalene	0.127	0.0038	"	0.125		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0410		"	0.0400		103	50-150			
Surrogate: Toluene-d8	0.0462		"	0.0400		116	50-150			
Surrogate: 4-Bromofluorobenzene	0.0465		"	0.0400		116	50-150			

Matrix Spike (BGG0054-MS1)

Source: 2306607-01

Prepared & Analyzed: 07/03/23

Benzene	0.115	0.0020	mg/kg	0.125	ND	92.4	70-130			
Toluene	0.155	0.0050	"	0.125	ND	124	70-130			
Ethylbenzene	0.152	0.0050	"	0.125	ND	122	70-130			
m,p-Xylene	0.312	0.010	"	0.250	ND	125	70-130			
o-Xylene	0.144	0.0050	"	0.125	ND	115	70-130			
1,2,4-Trimethylbenzene	0.144	0.0050	"	0.125	ND	115	70-130			
1,3,5-Trimethylbenzene	0.144	0.0050	"	0.125	ND	115	70-130			
Naphthalene	0.147	0.0038	"	0.125	0.0101	109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0460		"	0.0400		115	50-150			
Surrogate: Toluene-d8	0.0442		"	0.0400		111	50-150			
Surrogate: 4-Bromofluorobenzene	0.0467		"	0.0400		117	50-150			

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

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 BGG0054 - EPA 5030 Soil MS

Matrix Spike Dup (BGG0054-MSD1)

Source: 2306607-01

Prepared & Analyzed: 07/03/23

Benzene	0.118	0.0020	mg/kg	0.125	ND	94.6	70-130	2.39	30	
Toluene	0.160	0.0050	"	0.125	ND	128	70-130	3.02	30	
Ethylbenzene	0.143	0.0050	"	0.125	ND	114	70-130	6.11	30	
m,p-Xylene	0.295	0.010	"	0.250	ND	118	70-130	5.68	30	
o-Xylene	0.140	0.0050	"	0.125	ND	112	70-130	3.28	30	
1,2,4-Trimethylbenzene	0.137	0.0050	"	0.125	ND	109	70-130	5.32	30	
1,3,5-Trimethylbenzene	0.138	0.0050	"	0.125	ND	110	70-130	4.11	30	
Naphthalene	0.146	0.0038	"	0.125	0.0101	109	70-130	0.595	30	
Surrogate: 1,2-Dichloroethane-d4	0.0425		"	0.0400		106	50-150			
Surrogate: Toluene-d8	0.0467		"	0.0400		117	50-150			
Surrogate: 4-Bromofluorobenzene	0.0456		"	0.0400		114	50-150			

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGG0055 - EPA 3550A

Blank (BGG0055-BLK1)

Prepared & Analyzed: 07/03/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	12.5		"	12.5		99.6	30-150			

LCS (BGG0055-BS1)

Prepared & Analyzed: 07/03/23

C10-C28 (DRO)	355	50	mg/kg	500		71.0	70-130			
Surrogate: o-Terphenyl	9.95		"	12.5		79.6	30-150			

Matrix Spike (BGG0055-MS1)

Source: 2306607-01

Prepared & Analyzed: 07/03/23

C10-C28 (DRO)	366	50	mg/kg	500	13.9	70.5	70-130			
Surrogate: o-Terphenyl	14.6		"	12.5		116	30-150			


Matrix Spike Dup (BGG0055-MSD1)

Source: 2306607-01

Prepared: 07/03/23 Analyzed: 07/05/23

C10-C28 (DRO)	384	50	mg/kg	500	13.9	74.1	70-130	4.83	20	
Surrogate: o-Terphenyl	12.7		"	12.5		101	30-150			

Summit Scientific



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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

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 BGG0267 - EPA 5030 Soil MS

Blank (BGG0267-BLK1)

Prepared & Analyzed: 07/11/23

Acenaphthene	ND	0.00500	mg/kg
Anthracene	ND	0.00500	"
Benzo (a) anthracene	ND	0.00500	"
Benzo (a) pyrene	ND	0.00500	"
Benzo (b) fluoranthene	ND	0.00500	"
Benzo (k) fluoranthene	ND	0.00500	"
Chrysene	ND	0.00500	"
Dibenz (a,h) anthracene	ND	0.00500	"
Fluoranthene	ND	0.00500	"
Fluorene	ND	0.00500	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"
Pyrene	ND	0.00500	"
1-Methylnaphthalene	ND	0.00500	"
2-Methylnaphthalene	ND	0.00500	"

Surrogate: 2-Methylnaphthalene-d10	0.0275	"	0.0333	82.5	40-150
Surrogate: Fluoranthene-d10	0.0340	"	0.0333	102	40-150

LCS (BGG0267-BS1)

Prepared & Analyzed: 07/11/23

Acenaphthene	0.0312	0.00500	mg/kg	0.0333	93.5	31-137
Anthracene	0.0334	0.00500	"	0.0333	100	30-120
Benzo (a) anthracene	0.0347	0.00500	"	0.0333	104	30-120
Benzo (a) pyrene	0.0311	0.00500	"	0.0333	93.4	30-120
Benzo (b) fluoranthene	0.0327	0.00500	"	0.0333	98.2	30-120
Benzo (k) fluoranthene	0.0304	0.00500	"	0.0333	91.3	30-120
Chrysene	0.0318	0.00500	"	0.0333	95.5	30-120
Dibenz (a,h) anthracene	0.0279	0.00500	"	0.0333	83.8	30-120
Fluoranthene	0.0310	0.00500	"	0.0333	93.1	30-120
Fluorene	0.0332	0.00500	"	0.0333	99.6	30-120
Indeno (1,2,3-cd) pyrene	0.0295	0.00500	"	0.0333	88.6	30-120
Pyrene	0.0342	0.00500	"	0.0333	102	35-142
1-Methylnaphthalene	0.0231	0.00500	"	0.0333	69.4	35-142
2-Methylnaphthalene	0.0257	0.00500	"	0.0333	77.0	35-142

Surrogate: 2-Methylnaphthalene-d10	0.0260	"	0.0333	78.0	40-150
Surrogate: Fluoranthene-d10	0.0353	"	0.0333	106	40-150

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

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 BGG0267 - EPA 5030 Soil MS

Matrix Spike (BGG0267-MS1)

Source: 2306644-01

Prepared: 07/11/23 Analyzed: 07/12/23

Acenaphthene	0.0172	0.00500	mg/kg	0.0333	ND	51.6	31-137				
Anthracene	0.0174	0.00500	"	0.0333	ND	52.2	30-120				
Benzo (a) anthracene	0.0204	0.00500	"	0.0333	ND	61.3	30-120				
Benzo (a) pyrene	0.0175	0.00500	"	0.0333	ND	52.6	30-120				
Benzo (b) fluoranthene	0.0183	0.00500	"	0.0333	ND	55.0	30-120				
Benzo (k) fluoranthene	0.0166	0.00500	"	0.0333	ND	49.8	30-120				
Chrysene	0.0178	0.00500	"	0.0333	ND	53.3	30-120				
Dibenz (a,h) anthracene	0.0144	0.00500	"	0.0333	ND	43.1	30-120				
Fluoranthene	0.0175	0.00500	"	0.0333	ND	52.5	30-120				
Fluorene	0.0185	0.00500	"	0.0333	ND	55.5	30-120				
Indeno (1,2,3-cd) pyrene	0.0162	0.00500	"	0.0333	ND	48.5	30-120				
Pyrene	0.0197	0.00500	"	0.0333	ND	59.2	35-142				
1-Methylnaphthalene	0.0166	0.00500	"	0.0333	ND	49.9	15-130				
2-Methylnaphthalene	0.0174	0.00500	"	0.0333	ND	52.2	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0183		"	0.0333		55.0	40-150				
Surrogate: Fluoranthene-d10	0.0206		"	0.0333		61.9	40-150				

Matrix Spike Dup (BGG0267-MSD1)

Source: 2306644-01

Prepared: 07/11/23 Analyzed: 07/12/23

Acenaphthene	0.0140	0.00500	mg/kg	0.0333	ND	42.0	31-137	20.6	30
Anthracene	0.0153	0.00500	"	0.0333	ND	46.0	30-120	12.6	30
Benzo (a) anthracene	0.0178	0.00500	"	0.0333	ND	53.3	30-120	13.9	30
Benzo (a) pyrene	0.0155	0.00500	"	0.0333	ND	46.4	30-120	12.7	30
Benzo (b) fluoranthene	0.0164	0.00500	"	0.0333	ND	49.2	30-120	11.1	30
Benzo (k) fluoranthene	0.0144	0.00500	"	0.0333	ND	43.3	30-120	13.9	30
Chrysene	0.0149	0.00500	"	0.0333	ND	44.7	30-120	17.5	30
Dibenz (a,h) anthracene	0.0139	0.00500	"	0.0333	ND	41.6	30-120	3.54	30
Fluoranthene	0.0148	0.00500	"	0.0333	ND	44.5	30-120	16.6	30
Fluorene	0.0167	0.00500	"	0.0333	ND	50.1	30-120	10.1	30
Indeno (1,2,3-cd) pyrene	0.0146	0.00500	"	0.0333	ND	43.7	30-120	10.5	30
Pyrene	0.0164	0.00500	"	0.0333	ND	49.3	35-142	18.4	30
1-Methylnaphthalene	0.0165	0.00500	"	0.0333	ND	49.4	15-130	1.06	50
2-Methylnaphthalene	0.0157	0.00500	"	0.0333	ND	47.0	15-130	10.5	50
Surrogate: 2-Methylnaphthalene-d10	0.0170		"	0.0333		50.9	40-150		
Surrogate: Fluoranthene-d10	0.0177		"	0.0333		53.2	40-150		

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGF1100 - EPA 3050B

Blank (BGF1100-BLK1)

Prepared: 06/30/23 Analyzed: 07/02/23

Lead ND 0.200 mg/kg wet

LCS (BGF1100-BS1)

Prepared: 06/30/23 Analyzed: 07/02/23

Lead 18.8 0.200 mg/kg wet 20.0 94.1 80-120

Duplicate (BGF1100-DUP1)

Source: 2306596-03

Prepared: 06/30/23 Analyzed: 07/02/23

Lead 6.25 0.200 mg/kg dry 6.20 0.673 20

Matrix Spike (BGF1100-MS1)

Source: 2306596-03

Prepared: 06/30/23 Analyzed: 07/02/23

Lead 25.7 0.200 mg/kg dry 23.3 6.20 83.9 75-125

Matrix Spike Dup (BGF1100-MSD1)

Source: 2306596-03

Prepared: 06/30/23 Analyzed: 07/02/23

Lead 25.6 0.200 mg/kg dry 23.3 6.20 83.2 75-125 0.648 25

Batch BGF1101 - EPA 3050B

Blank (BGF1101-BLK1)

Prepared: 06/30/23 Analyzed: 07/03/23

Lead ND 0.200 mg/kg wet

LCS (BGF1101-BS1)

Prepared: 06/30/23 Analyzed: 07/03/23

Lead 18.1 0.200 mg/kg wet 20.0 90.6 80-120

Duplicate (BGF1101-DUP1)

Source: 2306600-01

Prepared: 06/30/23 Analyzed: 07/03/23

Lead 3.37 0.200 mg/kg dry 2.94 13.3 20

Matrix Spike (BGF1101-MS1)

Source: 2306600-01

Prepared: 06/30/23 Analyzed: 07/03/23

Lead 23.8 0.200 mg/kg dry 21.5 2.94 97.0 75-125

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:
07/13/23 14:54

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGF1101 - EPA 3050B

Matrix Spike Dup (BGF1101-MSD1) **Source: 2306600-01** Prepared: 06/30/23 Analyzed: 07/03/23

Lead	22.6	0.200	mg/kg dry	21.5	2.94	91.5	75-125	5.16	25	
------	------	-------	-----------	------	------	------	--------	------	----	--

Batch BGF1124 - EPA 3050B

Blank (BGF1124-BLK1) Prepared: 06/30/23 Analyzed: 07/02/23

Lead	ND	0.200	mg/kg wet							
------	----	-------	-----------	--	--	--	--	--	--	--

LCS (BGF1124-BS1) Prepared: 06/30/23 Analyzed: 07/02/23

Lead	21.8	0.200	mg/kg wet	20.0		109	80-120			
------	------	-------	-----------	------	--	-----	--------	--	--	--

Duplicate (BGF1124-DUP1) **Source: 2305638-01** Prepared: 06/30/23 Analyzed: 07/02/23

Lead	18.0	0.200	mg/kg dry		14.1			24.4	20	QM-04
------	------	-------	-----------	--	------	--	--	------	----	-------

Matrix Spike (BGF1124-MS1) **Source: 2305638-01** Prepared: 06/30/23 Analyzed: 07/02/23

Lead	43.9	0.200	mg/kg dry	22.3	14.1	134	75-125			QM-07
------	------	-------	-----------	------	------	-----	--------	--	--	-------

Matrix Spike Dup (BGF1124-MSD1) **Source: 2305638-01** Prepared: 06/30/23 Analyzed: 07/02/23

Lead	40.2	0.200	mg/kg dry	22.3	14.1	117	75-125	8.69	25	
------	------	-------	-----------	------	------	-----	--------	------	----	--

Batch BGG0114 - EPA 3050B

Blank (BGG0114-BLK1) Prepared: 07/06/23 Analyzed: 07/07/23

Lead	ND	0.200	mg/kg wet							
------	----	-------	-----------	--	--	--	--	--	--	--

LCS (BGG0114-BS1) Prepared: 07/06/23 Analyzed: 07/07/23

Lead	19.4	0.200	mg/kg wet	20.0		97.1	80-120			
------	------	-------	-----------	------	--	------	--------	--	--	--

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:
07/13/23 14:54

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGG0114 - EPA 3050B

Duplicate (BGG0114-DUP1)		Source: 2306644-27			Prepared: 07/06/23 Analyzed: 07/07/23					
Lead	12.1	0.200	mg/kg dry		11.1			8.75	20	
Matrix Spike (BGG0114-MS1)		Source: 2306644-27			Prepared: 07/06/23 Analyzed: 07/07/23					
Lead	32.7	0.200	mg/kg dry	24.6	11.1	87.8	75-125			
Matrix Spike Dup (BGG0114-MSD1)		Source: 2306644-27			Prepared: 07/06/23 Analyzed: 07/07/23					
Lead	32.5	0.200	mg/kg dry	24.6	11.1	87.3	75-125	0.396	25	

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

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

Summit Scientific

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

Batch BGG0044 - General Preparation

Duplicate (BGG0044-DUP1)

Source: 2306644-01

Prepared & Analyzed: 07/03/23

% Solids	81.3	%	81.3	0.0294	20
----------	------	---	------	--------	----

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

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

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

Batch BGG0040 - General Preparation

LCS (BGG0040-BS1)

Prepared & Analyzed: 07/03/23

pH	8.99		pH Units	9.18		97.9	95-105		
----	------	--	----------	------	--	------	--------	--	--

Duplicate (BGG0040-DUP1)

Source: 2306606-01

Prepared & Analyzed: 07/03/23

pH	7.78		pH Units		7.76			0.257	20
----	------	--	----------	--	------	--	--	-------	----

Batch BGG0045 - General Preparation

LCS (BGG0045-BS1)

Prepared & Analyzed: 07/03/23

pH	8.99		pH Units	9.18		97.9	95-105		
----	------	--	----------	------	--	------	--------	--	--

Duplicate (BGG0045-DUP1)

Source: 2306644-12

Prepared & Analyzed: 07/03/23

pH	6.97		pH Units		6.99			0.287	20
----	------	--	----------	--	------	--	--	-------	----

Summit Scientific

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



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

Project: Civitas - Culver 5-17 Tank Battery

Project Number: [none]
Project Manager: Sam Vogt

Reported:
07/13/23 14:54

Notes and Definitions

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.
QM-04	Visual evaluation of the sample indicates the RPD is above the control limit due to a non-homogeneous sample matrix.
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