

**DCP PARMLEE #1  
FIRST QUARTER 2022  
FORM 27 INITIAL INVESTIGATION REPORT**

**ATTACHMENTS**

**Tables**

- |   |  |
|---|--|
| 1 | Summary of First Quarter 2022 Groundwater Elevation Data |
| 2 | First Quarter 2022 Groundwater Analytical Results        |
| 3 | Historical Groundwater Analytical Results                |
| 4 | First Quarter 2022 Soil VOC Analytical Results           |
| 5 | First Quarter 2022 Soil PAH Analytical Results           |

**Figures**

- |   |  |
|---|--|
| 1 | Site Location Map                                      |
| 2 | Site Overview Map                                      |
| 3 | Groundwater Potentiometric Surface Map – March 2, 2022 |
| 4 | Groundwater Analytical Results Map – March 2, 2022     |
| 5 | Soil VOC Analytical Results Map – First Quarter 2022   |

**Appendices**

- |   |   |
|---|---|
| A | Laboratory Analytical Report  |
| - | Origins Laboratory Job #: Y203079 (groundwater)                     |
| - | Summit Scientific Job #: 2201049 (soil)                             |
| - | Summit Scientific Job #: 2201239 (soil)                             |
| - | Summit Scientific Job #: 2201281 (soil)                             |
| B | Monitoring Well Construction Logs (MW01-R; MW02-R; MW05-R; MW06-10) |

**TABLE 1**  
**FIRST QUARTER 2022**  
**(March 2, 2022)**  
**SUMMARY OF GROUNDWATER ELEVATION DATA**  
**DCP MIDSTREAM - PARMLEE #1**  
**WELD COUNTY, COLORADO**

Location	Date	Depth to Groundwater (feet)	Depth to Product (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (feet)	TOC Elevation (feet amsl)	Groundwater Elevation (feet amsl)	Change in Groundwater Elevation Since Previous Event <sup>(1)</sup> (feet)
BH01 (MW01)	6/22/2021	29.78	-	-	34.06	4605.91	4,576.13	NC
BH01 (MW01)	9/15/2021	29.86	-	-	34.06	4605.91	4,576.05	-0.08
BH01 (MW01)	3/2/2022	Removed during 4Q21 excavation						
MW01-R	1/28/2022	DRY	-	-	34.33	4602.19	NC	NC
MW01-R	3/2/2022	DRY	-	-	34.33	4602.19	NC	NC
BH02 (MW02)	6/22/2021	30.98	-	-	33.31	4607.07	4,576.09	NC
BH02 (MW02)	9/15/2021	29.61	-	-	33.31	4607.07	4,577.46	1.37
BH02 (MW02)	3/2/2022	Removed during 4Q21 excavation						
MW02-R	1/28/2022	31.00	-	-	31.54	4603.17	4,572.17	NC
MW02-R	3/2/2022	31.05	-	-	33.54	4603.17	4,572.12	-0.05
BH03 (MW03)	6/22/2021	29.52	-	-	32.86	4605.68	4,576.16	NC
BH03 (MW03)	9/15/2021	31.08	-	-	32.86	4605.68	4,574.60	-1.56
BH03 (MW03)	3/2/2022	Removed during 4Q21 excavation						
BH04 (MW04)	6/22/2021	29.01	-	-	32.30	4604.83	4,575.82	NC
BH04 (MW04)	9/15/2021	29.06	-	-	32.30	4604.83	4,575.77	-0.05
BH04 (MW04)	3/2/2022	Removed during 4Q21 excavation						
BH05 (MW05)	6/22/2021	29.75	-	-	32.19	4605.65	4,575.90	NC
BH05 (MW05)	9/15/2021	29.81	-	-	32.19	4605.65	4,575.84	-0.06
BH05 (MW05)	3/2/2022	Removed during 4Q21 excavation						
MW05-R	1/28/2022	DRY	-	-	41.96	4602.53	NC	NC
MW05-R	3/2/2022	37.49	-	-	41.96	4602.53	4565.04	NC
MW06	1/28/2022	29.76	-	-	32.58	4602.26	4572.50	NC
MW06	3/2/2022	29.79	-	-	32.58	4602.26	4572.47	-0.03
MW07	1/28/2022	DRY	-	-	29.68	4601.20	NC	NC
MW07	3/2/2022	DRY	-	-	29.68	4601.20	NC	NC
MW08	1/28/2022	DRY	-	-	32.02	4603.75	NC	NC
MW08	3/2/2022	DRY	-	-	32.02	4603.75	NC	NC
MW09	1/28/2022	30.78	-	-	31.95	4599.92	4569.14	NC
MW09	3/2/2022	30.26	-	-	31.95	4599.92	4569.66	0.52
Average Change in Groundwater Elevation (1/28/2022 - 3/02/2022)								0.15

Notes:

1- Changes in groundwater elevation calculated by subtracting the measurement collected during the previous monitoring event from the measurement collected during the most recent monitoring event.

amsl = feet above mean sea level

TOC = top of casing

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

LNAPL relative density was assumed to be approximately 0.75

NC = Not calculated

**TABLE 2**  
**FIRST QUARTER 2022 GROUNDWATER ANALYTICAL RESULTS**  
**(March 2, 2022)**  
**DCP MIDSTREAM - PARMLEE #1**  
**WELD COUNTY, COLORADO**

Location Identification	Sample Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	1,2,4-Trimethylbenzene (µg/l)	1,3,5-Trimethylbenzene (µg/l)	Naphthalene (µg/l)	Comments
COGCC Standards (µg/L)		5	560	700	1,400	67	67	140	
MW01-R	3/2/2022	NS	NS	NS	NS	NS	NS	NS	DRY
MW02-R	3/2/2022	<1.00	<1.00	3.26	<1.00	7.74	<2.00	<2.00	
MW05-R	3/2/2022	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	
MW06	3/2/2022	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	
MW07	3/2/2022	NS	NS	NS	NS	NS	NS	NS	DRY
MW08	3/2/2022	NS	NS	NS	NS	NS	NS	NS	DRY
MW09	3/2/2022	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	

Notes:

1). The environmental cleanup standards for groundwater that are applicable to this site are the Colorado Oil and Gas Conservation Commission (COGCC) standards for contaminants in groundwater according to Table 910-1 (Prior to January 15th, 2021) and Table 915-1 (Post January 15, 2021) of the COGCC 900 Series Rule for E&P Waste Management.

**Bold red** values indicate an exceedance of the COGCC groundwater standards for the Site.

µg/L = micrograms per liter.

NS = Not Sampled

**TABLE 3**  
**HISTORICAL GROUNDWATER ANALYTICAL RESULTS**  
**DCP MIDSTREAM - PARMLEE #1**  
**WELD COUNTY, COLORADO**

Location Identification	Sample Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	1,2,4-Trimethylbenzene (µg/l)	1,3,5-Trimethylbenzene (µg/l)	Naphthalene (µg/l)	Total Dissolved Solids (mg/l)	Chloride (mg/l)	Sulfate (mg/l)	Comments
COGCC Standards (µg/L)		5	560	700	1,400	67	67	140	(<1.25 x local background)	(250 mg/l or <1.25 x local background)	(250 mg/l or <1.25 x local background)	
BH01 (MW01)	6/22/2021	3600	4960	978	8300	591	267	107	770	31.2	36.0	
BH01 (MW01)	9/15/2021	2160	1830	326	4890	549	265	88.2	-	-	-	
BH01 (MW01)	3/2/2022	-	-	-	-	-	-	-	-	-	-	Removed During Excavation
MW01-R	3/2/2022	NS	NS	NS	NS	NS	NS	NS	-	-	-	DRY
BH02 (MW02)	6/22/2021	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<16.0	684	<31.2	40.7	
BH02 (MW02)	9/15/2021	<1.00	<1.00	<1.00	<1.00	<4.00	<1.00	<1.00	-	-	-	
BH02 (MW02)	3/2/2022	-	-	-	-	-	-	-	-	-	-	Removed During Excavation
MW02-R	3/2/2022	<1.00	<1.00	3.26	<1.00	7.74	<2.00	<2.00	-	-	-	
BH03 (MW03)	6/22/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<4.00	-	-	-	
BH03 (MW03)	9/15/2021	<1.00	<1.00	<1.00	<1.00	<4.00	<1.00	<1.00	-	-	-	
BH03 (MW03)	3/2/2022	-	-	-	-	-	-	-	-	-	-	Removed During Excavation
BH04 (MW04)	6/22/2021	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<4.00	NS	NS	NS	
BH04 (MW04)	9/15/2021	<1.00	<1.00	<1.00	<1.00	<4.00	<1.00	<1.00	-	-	-	
BH04 (MW04)	3/2/2022	-	-	-	-	-	-	-	-	-	-	Removed During Excavation
BH05 (MW05)	6/22/2021	80.9	<1.00	5.43	320	166	163	24.6	850	38.7	<31.2	
BH05 (MW05)	9/15/2021	7.34	<1.00	70.9	<1.00	<1.00	32.8	22.1	-	-	-	
BH05 (MW05)	3/2/2022	-	-	-	-	-	-	-	-	-	-	Removed During Excavation
MW05-R	3/2/2022	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	-	-	-	
MW06	3/2/2022	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	-	-	-	
MW07	3/2/2022	NS	NS	NS	NS	NS	NS	NS	-	-	-	DRY
MW08	3/2/2022	NS	NS	NS	NS	NS	NS	NS	-	-	-	DRY
MW09	3/2/2022	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	-	-	-	

Notes:

1). The environmental cleanup standards for groundwater that are applicable to this site are the Colorado Oil and Gas Conservation Commission (COGCC) standards for contaminants in groundwater according to Table 915-1 of the COGCC 900 Series Rule for E&P Waste Management.

**Bold red** values indicate an exceedance of the COGCC groundwater standards for the Site.

µg/L = micrograms per liter.

NS = Not Sampled



**TABLE 4**  
**First Quarter 2022 Volatile Organic Compound (VOC)**  
**Boring Sample Analytical Results Summary Table**  
**DCP Midstream - Parmlee #1**

Sample ID	Date Sampled	Lab Report	PID Reading (PPM)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	1,2,4-Trimethylbenzene (mg/kg)	1,3,5-Trimethylbenzene (mg/kg)	Naphtthalene (mg/kg)	TPH (mg/kg) <sup>2</sup>	Comments
<b>COGCC Protection of Groundwater Soil Screening Level Standards Risk &amp; MCL Based <sup>(1 &amp; 2)</sup> (mg/kg)</b>				<b>0.0026 (M)</b>	<b>0.69 (M)</b>	<b>0.78 (M)</b>	<b>9.9 (M)</b>	<b>0.0081 (R)</b>	<b>0.0087 (R)</b>	<b>0.0038 (R)</b>	<b>500</b>	
MW07@27"	1/5/2022	2201049	1.2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	
MW07@30'	1/5/2022	2201049	0.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	
MW02-R@2'	1/21/2022	2201239	12.2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	
MW02-R@27"	1/21/2022	2201239	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	
MW02-R@34'	1/21/2022	2201239	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	
MW09@20'	1/21/2022	2201239	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	
MW09@31'	1/21/2022	2201239	399.4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	
MW09@32.25	1/21/2022	2201239	2.1	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	
MW08@22"	1/21/2022	2201239	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	
MW08@32'	1/21/2022	2201239	0.2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	
MW08@32.5'	1/21/2022	2201239	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	
MW05-R@42'	1/21/2022	2201239	0.2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	
MW01-R@33-34'	1/24/2022	2201281	0.2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	
MW01-R@34-35'	1/24/2022	2201281	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	
MW06@30-31'	1/24/2022	2201281	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	
MW06@32-33'	1/24/2022	2201281	0.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	

Notes:

1). The environmental cleanup standards for soil that are applicable to this site are the Colorado Oil and Gas Conservation Commission (COGCC) standards for contaminants in soil according to Table 910-1 (Prior to January 15th, 2021) and Table 915-1 (Post January 15, 2021) of the COGCC 900 Series Rule for E&P Waste Management.

2). Standards for Soil are referenced from the 2 CCR 404-1, Table 915-1, effective January 15, 2021. If there is no pathway for communication with Groundwater, then residential soil screening levels apply for organic compounds and metals. If the Director determines that a pathway to Groundwater exists, then the protection of Groundwater soil screening levels will apply, secondary to actual measured concentrations of the contaminants of concern in Groundwater.

3). The letter "(R)" following a protection of Groundwater soil screening level indicates the concentration is derived from a risk-based approach. The letter "(M)" following a protection of Groundwater soil screening level indicates the concentration is derived from the drinking water MCL.

4). TPH - Total volatile (C<sub>6</sub> - C<sub>10</sub>) and extractable (C<sub>10</sub> - C<sub>15</sub>) petroleum hydrocarbons.

Concentrations (mg/kg) Risk Based and MCL Based.

mg/kg= Milligram per kilogram.

ppm = Parts per million

Bold values indicate an exceedance of the Site Specific and/or the COGCC soil standards for the Site.

Table 915 note - If the method detection limit ("MDL") or practical quantitation limit ("PQL") for a pollutant is higher (less stringent) than a threshold concentration listed in Table 915-1, the Director may allow an Operator to substitute the MDL or PQL for the concentration listed in Table 915-1.

**Table 5**  
**First Quarter 2022 Polycyclic Aromatic Hydrocarbon (PAH)**  
**Boring Sample Analytical Results Summary Table**  
**DCP Midstream - Parmlee #1**

Sample ID	Date Sampled	Lab Report	PID Reading (PPM)	1-methylnaphthalene (mg/kg)	2-methylnaphthalene (mg/kg)	Comments
<b>COGCC Protection of Groundwater Soil Screening Level Standards Risk &amp; MCL Based <sup>(1 &amp; 2)</sup> (mg/kg)</b>	-	-	-	<b>0.006 (R)</b>	<b>0.019 (R)</b>	
MW07@27'	1/5/2022	2201049	1.2	<0.00500	<0.00500	
MW07@30'	1/5/2022	2201049	0.5	<0.00500	<0.00500	
MW02-R@2'	1/21/2022	2201239	12.2	0.00577	<0.00500	
MW02-R@27'	1/21/2022	2201239	0.0	<0.00500	<0.00500	
MW02-R@34'	1/21/2022	2201239	0.0	<0.00500	<0.00500	
MW09@20'	1/21/2022	2201239	0.0	<0.00500	<0.00500	
MW09@31'	1/21/2022	2201239	399.4	<0.00500	<0.00500	
MW09@32.25	1/21/2022	2201239	2.1	<0.00500	<0.00500	
MW08@22'	1/21/2022	2201239	0.0	<0.00500	<0.00500	
MW08@32'	1/21/2022	2201239	0.2	<0.00500	<0.00500	
MW08@32.5'	1/21/2022	2201239	0.0	<0.00500	<0.00500	
MW05-R@42'	1/21/2022	2201239	0.2	<0.00500	<0.00500	
MW01-R@33-34'	1/24/2022	2201281	0.2	<0.00500	<0.00500	
MW01-R@34-35'	1/24/2022	2201281	0.0	<0.00500	<0.00500	
MW06@30-31'	1/24/2022	2201281	0.0	<0.00500	<0.00500	
MW06@32-33'	1/24/2022	2201281	0.0	<0.00500	<0.00500	

1). Standards for Soil are referenced from the 2 CCR 404-1, Table 915-1, effective January 15, 2021.

2). The letter "(R)" following a protection of Groundwater soil screening level indicates the concentration is derived from a risk-based approach. The letter "(M)" following a protection of Groundwater soil screening level indicates the concentration is derived from the drinking water MCL.

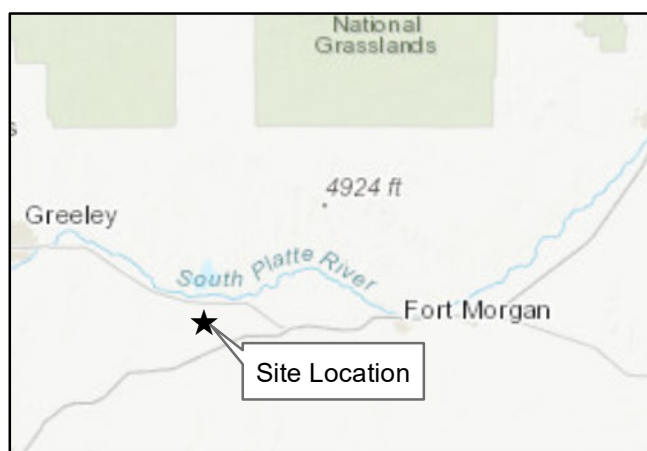
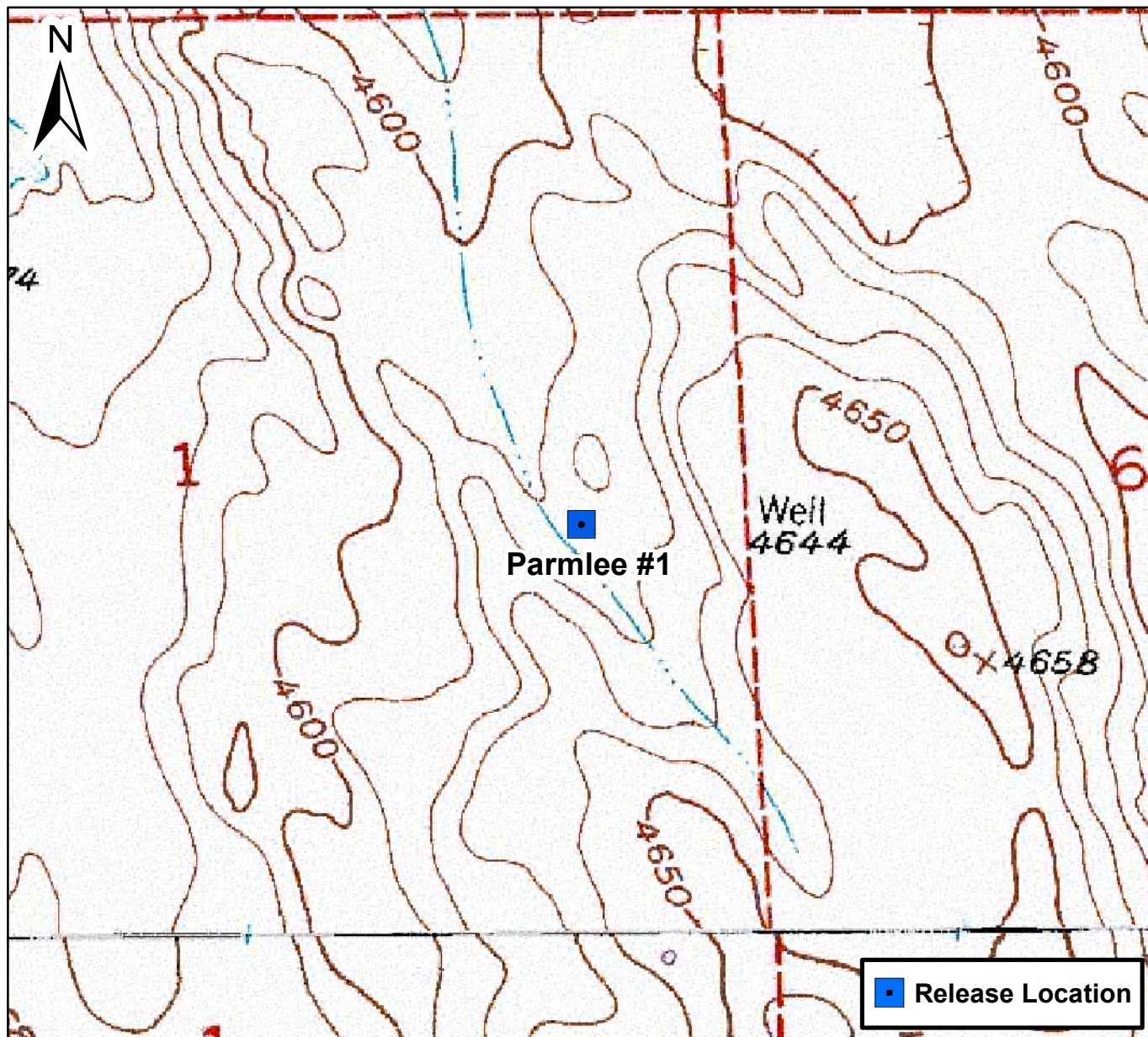
mg/kg= Milligrams per kilogram.

PPM - Parts per million

PID - Photoionization Detector

Bold values indicate an exceedance of the COGCC soil standards for the Site.

Table 915 note - If the method detection limit ("MDL") or practical quantitation limit ("PQL") for a pollutant is higher (less stringent) than a threshold concentration listed in Table 915-1, the Director may allow an Operator to substitute the MDL or PQL for the concentration listed in Table 915-1.



0 750 1,500 Feet

## Figure 1

Site Location Map  
 Parmlee #1  
 SENE S1 T3N R62W  
 Weld County, Colorado







DATE:	April 2022
DESIGNED BY:	B. Humphrey
DRAWN BY:	J. Clonts

TASMAN

Tasman, Inc.

6855 W. 119th Ave

Broomfield, CO 80020

DCP Midstream  
Parmlee #1  
S1 T3N R62W  
Weld, Colorado

Site Overview Map

Figure  
2





DATE:	April 2022
DESIGNED BY:	B. Humphrey
DRAWN BY:	J. Clonts



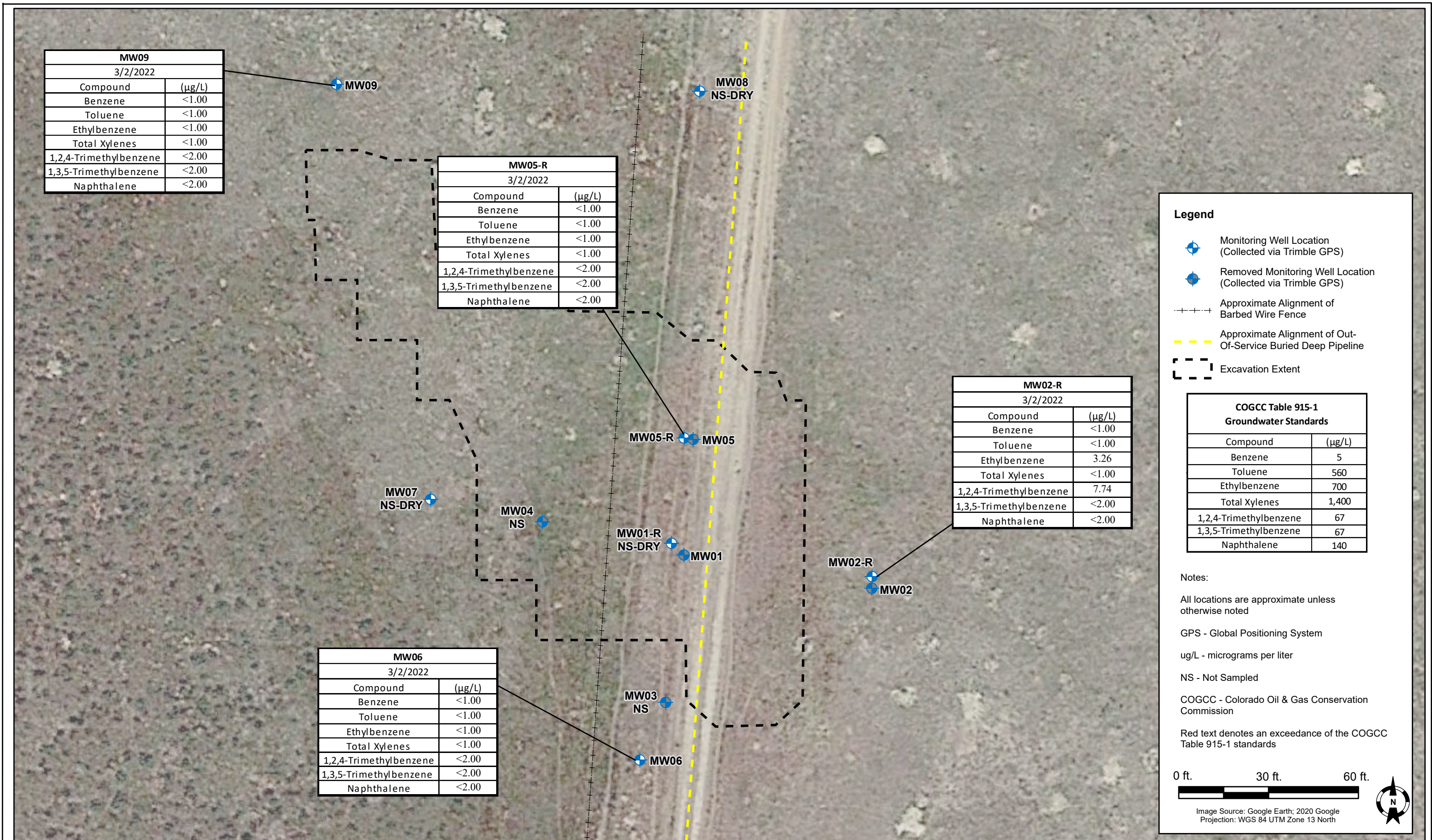
Tasman, Inc.  
6855 W. 119th Ave  
Broomfield, CO 80020

DCP Midstream  
Parmlee #1  
S1 T3N R62W  
Weld, Colorado

Groundwater Elevation  
Contour Map  
(March 2, 2022)

Figure  
3





DATE: April 2022

DESIGNED BY: B. Humphrey

DRAWN BY: J. Clonts

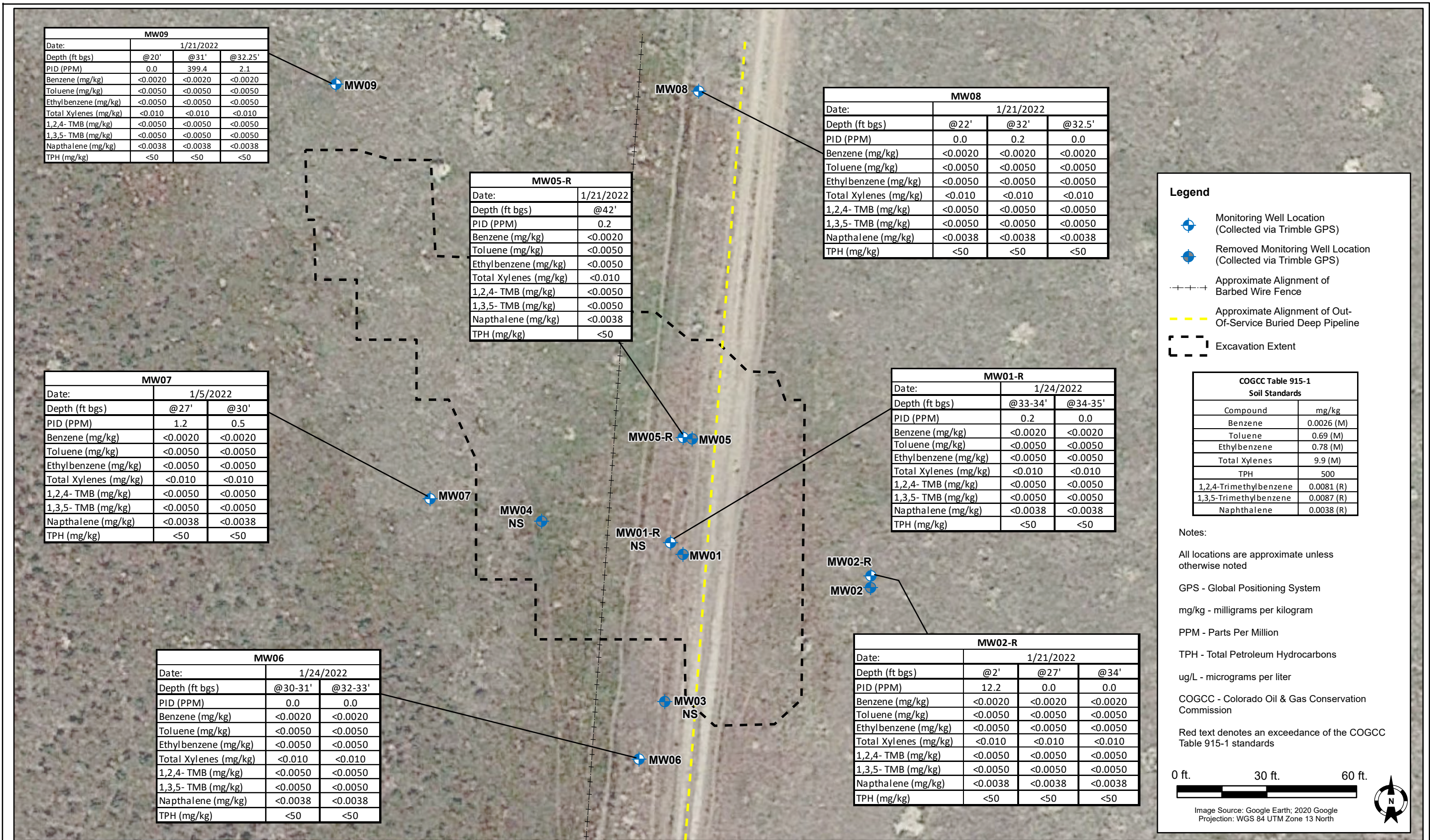
**TASMAN**  
Tasman, Inc.  
6855 W. 119th Ave  
Broomfield, CO 80020

**DCP Midstream  
Parmlee #1  
S1 T3N R62W  
Weld, Colorado**

**Groundwater Analytical  
Results Map  
(March 2, 2022)**

**Figure  
4**





DATE: April 2022

DESIGNED BY: B. Humphrey

DRAWN BY: J. Clonts

**TASMAN** Tasman, Inc.  
6855 W. 119th Ave  
Broomfield, CO 80020

**DCP Midstream  
Parmlee #1  
S1 T3N R62W  
Weld, Colorado**

**Groundwater & Soil Analytical  
Results Map  
(January 5 & January 24, 2022)**

**Figure  
5**



# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 12, 2022

Jeb Watts

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: Parmlee #1

Work Order #2201049

Enclosed are the results of analyses for samples received by Summit Scientific on 01/05/22 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury

President





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

Project: Parmlee #1

Project Number: [none]

Project Manager: Jeb Watts

**Reported:**  
04/12/22 11:33

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW07@27'	2201049-02	Soil	01/05/22 14:00	01/05/22 17:00
MW07@30'	2201049-03	Soil	01/05/22 14:30	01/05/22 17:00

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.*

## S.

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Client: DCP/Tasman

Project Manager: Chandler Cole/ Jeb Watts

Address: 6855 W. 119th Ave.

E-Mail: [iwatts@tasman-geo.com](mailto:iwatts@tasman-geo.com); [vscruggs@tasman-geo.com](mailto:vscruggs@tasman-geo.com)

City/State/Zip: Broomfield CO 80020

cecole@dcpmidstream.com; swweathers@dcpmidstream.com

Phone: 303-487-1228

Project Name: Parmelee #1

Sampler Name: Steve Casale

Project Number:

www.s2scientific.com

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2201049Client: DCD/TASMEClient Project ID: Parma 100Shipped Via: ☐ H.D./P.U./FedEx/UPS/USPS/Other ☐Airbill #:                     

Matrix (check all that apply):

☐ Air☒ Soil/Solid☐ Water☐ Other:                     

(Describe)

Temp (°C)

Thermometer ID: G86A9201901378

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

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

Custodian Printed Name or Initials Logan S.Date/Time 7/15/21 14:00



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

Project: Parmlee #1

Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
04/12/22 11:33

**MW07@27'**  
**2201049-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/05/22 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFA0091	01/06/22	01/07/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/05/22 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		107 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		110 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/05/22 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0092	01/06/22	01/07/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/05/22 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		74.8 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Parmlee #1  
Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
04/12/22 11:33

**MW07@27'**  
**2201049-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/05/22 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BFA0102	01/07/22	01/08/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/05/22 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10		45.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		47.3 %	40-150		"	"	"	"	

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Parmlee #1  
Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
04/12/22 11:33

**MW07@30'**  
**2201049-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/05/22 14:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFA0091	01/06/22	01/07/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/05/22 14:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		135 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		122 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.4 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/05/22 14:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0092	01/06/22	01/07/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/05/22 14:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		99.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Parmlee #1  
Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
04/12/22 11:33

**MW07@30'**  
**2201049-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/05/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFA0102	01/07/22	01/08/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/05/22 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		78.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		61.3 %	40-150		"	"	"	"	

Summit Scientific

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

Project: Parmlee #1

Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
04/12/22 11:33

## 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 BFA0091 - EPA 5030 Soil MS

##### Blank (BFA0091-BLK1)

Prepared & Analyzed: 01/06/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0358		"	0.0400		89.6	23-173			
Surrogate: Toluene-d8	0.0406		"	0.0400		101	20-170			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.4	21-167			

##### LCS (BFA0091-BS1)

Prepared & Analyzed: 01/06/22

Benzene	0.0571	0.0020	mg/kg	0.0750		76.1	70-130			
Toluene	0.0661	0.0050	"	0.0750		88.2	70-130			
Ethylbenzene	0.0620	0.0050	"	0.0750		82.7	70-130			
m,p-Xylene	0.127	0.010	"	0.150		84.7	70-130			
o-Xylene	0.0644	0.0050	"	0.0750		85.8	70-130			
1,2,4-Trimethylbenzene	0.0639	0.0050	"	0.0750		85.2	70-130			
1,3,5-Trimethylbenzene	0.0636	0.0050	"	0.0750		84.8	70-130			
Naphthalene	0.0525	0.0038	"	0.0750		70.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0390		"	0.0400		97.5	23-173			
Surrogate: Toluene-d8	0.0405		"	0.0400		101	20-170			
Surrogate: 4-Bromofluorobenzene	0.0399		"	0.0400		99.8	21-167			

##### Matrix Spike (BFA0091-MS1)

Source: 2201015-01

Prepared & Analyzed: 01/06/22

Benzene	0.0587	0.0020	mg/kg	0.0750	ND	78.3	70-130			
Toluene	0.0693	0.0050	"	0.0750	ND	92.4	70-130			
Ethylbenzene	0.0619	0.0050	"	0.0750	ND	82.5	70-130			
m,p-Xylene	0.128	0.010	"	0.150	ND	85.1	70-130			
o-Xylene	0.0657	0.0050	"	0.0750	ND	87.6	70-130			
1,2,4-Trimethylbenzene	0.0670	0.0050	"	0.0750	ND	89.3	70-130			
1,3,5-Trimethylbenzene	0.0654	0.0050	"	0.0750	ND	87.2	70-130			
Naphthalene	0.0635	0.0038	"	0.0750	ND	84.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0434		"	0.0400		109	23-173			
Surrogate: Toluene-d8	0.0416		"	0.0400		104	20-170			
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400		101	21-167			

Summit Scientific

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

Project: Parmlee #1

Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
04/12/22 11:33

**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 BFA0091 - EPA 5030 Soil MS**

Matrix Spike Dup (BFA0091-MSD1)		Source: 2201015-01			Prepared & Analyzed: 01/06/22					
Benzene	0.0588	0.0020	mg/kg	0.0750	ND	78.4	70-130	0.102	30	
Toluene	0.0787	0.0050	"	0.0750	ND	105	70-130	12.7	30	
Ethylbenzene	0.0688	0.0050	"	0.0750	ND	91.8	70-130	10.6	30	
m,p-Xylene	0.144	0.010	"	0.150	ND	96.1	70-130	12.1	30	
o-Xylene	0.0715	0.0050	"	0.0750	ND	95.4	70-130	8.48	30	
1,2,4-Trimethylbenzene	0.0766	0.0050	"	0.0750	ND	102	70-130	13.4	30	
1,3,5-Trimethylbenzene	0.0742	0.0050	"	0.0750	ND	98.9	70-130	12.6	30	
Naphthalene	0.0784	0.0038	"	0.0750	ND	104	70-130	20.9	30	
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	0.0421		"	0.0400		105	23-173			
Surrogate: Toluene-d8	0.0454		"	0.0400		113	20-170			
Surrogate: 4-Bromofluorobenzene	0.0406		"	0.0400		101	21-167			

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

Project: Parmlee #1

Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
04/12/22 11:33

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

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

**Batch BFA0092 - EPA 3550A**

**Blank (BFA0092-BLK1)**

Prepared & Analyzed: 01/06/22

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

**LCS (BFA0092-BS1)**

Prepared & Analyzed: 01/06/22

C10-C28 (DRO)	532	50	mg/kg	500	106	70-130
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**Matrix Spike (BFA0092-MS1)**

Source: 2201015-01

Prepared & Analyzed: 01/06/22

C10-C28 (DRO)	391	50	mg/kg	500	12.2	75.7	70-130
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**Matrix Spike Dup (BFA0092-MSD1)**

Source: 2201015-01

Prepared & Analyzed: 01/06/22

C10-C28 (DRO)	473	50	mg/kg	500	12.2	92.1	70-130	19.0	20
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Summit Scientific

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

Project: Parmlee #1  
Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
04/12/22 11:33

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

### Summit Scientific

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

#### Batch BFA0102 - EPA 5030 Soil MS

##### Blank (BFA0102-BLK1)

Prepared & Analyzed: 01/07/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0208		"	0.0333		62.5	40-150			
Surrogate: Fluoranthene-d10	0.0163		"	0.0333		48.8	40-150			

##### LCS (BFA0102-BS1)

Prepared & Analyzed: 01/07/22

Acenaphthene	0.0179	0.00500	mg/kg	0.0333		53.8	31-137			
Anthracene	0.0187	0.00500	"	0.0333		56.2	30-120			
Benzo (a) anthracene	0.0177	0.00500	"	0.0333		53.1	30-120			
Benzo (a) pyrene	0.0171	0.00500	"	0.0333		51.4	30-120			
Benzo (b) fluoranthene	0.0179	0.00500	"	0.0333		53.7	30-120			
Benzo (k) fluoranthene	0.0192	0.00500	"	0.0333		57.5	30-120			
Chrysene	0.0176	0.00500	"	0.0333		52.9	30-120			
Dibenz (a,h) anthracene	0.0195	0.00500	"	0.0333		58.5	30-120			
Fluoranthene	0.0203	0.00500	"	0.0333		60.8	30-120			
Fluorene	0.0194	0.00500	"	0.0333		58.1	30-120			
Indeno (1,2,3-cd) pyrene	0.0172	0.00500	"	0.0333		51.5	30-120			
Pyrene	0.0183	0.00500	"	0.0333		55.0	35-142			
1-Methylnaphthalene	0.0162	0.00500	"	0.0333		48.5	35-142			
2-Methylnaphthalene	0.0174	0.00500	"	0.0333		52.3	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0145		"	0.0333		43.6	40-150			
Surrogate: Fluoranthene-d10	0.0176		"	0.0333		52.9	40-150			

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

Project: Parmlee #1

Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
04/12/22 11:33

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

### Summit Scientific

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

#### Batch BFA0102 - EPA 5030 Soil MS

##### Matrix Spike (BFA0102-MS1)

Source: 2201015-02

Prepared & Analyzed: 01/07/22

Acenaphthene	0.0218	0.00500	mg/kg	0.0333	ND	65.3	31-137		
Anthracene	0.0219	0.00500	"	0.0333	ND	65.8	30-120		
Benzo (a) anthracene	0.0221	0.00500	"	0.0333	ND	66.2	30-120		
Benzo (a) pyrene	0.0223	0.00500	"	0.0333	ND	66.9	30-120		
Benzo (b) fluoranthene	0.0243	0.00500	"	0.0333	ND	72.9	30-120		
Benzo (k) fluoranthene	0.0240	0.00500	"	0.0333	ND	71.9	30-120		
Chrysene	0.0225	0.00500	"	0.0333	ND	67.4	30-120		
Dibenz (a,h) anthracene	0.0241	0.00500	"	0.0333	ND	72.2	30-120		
Fluoranthene	0.0259	0.00500	"	0.0333	ND	77.8	30-120		
Fluorene	0.0238	0.00500	"	0.0333	ND	71.4	30-120		
Indeno (1,2,3-cd) pyrene	0.0226	0.00500	"	0.0333	ND	67.8	30-120		
Pyrene	0.0229	0.00500	"	0.0333	ND	68.7	35-142		
1-Methylnaphthalene	0.0208	0.00500	"	0.0333	ND	62.3	15-130		
2-Methylnaphthalene	0.0225	0.00500	"	0.0333	ND	67.4	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0180		"	0.0333		54.1	40-150		
Surrogate: Fluoranthene-d10	0.0212		"	0.0333		63.6	40-150		

##### Matrix Spike Dup (BFA0102-MSD1)

Source: 2201015-02

Prepared & Analyzed: 01/07/22

Acenaphthene	0.0211	0.00500	mg/kg	0.0333	ND	63.3	31-137	3.10	30
Anthracene	0.0218	0.00500	"	0.0333	ND	65.4	30-120	0.629	30
Benzo (a) anthracene	0.0224	0.00500	"	0.0333	ND	67.2	30-120	1.54	30
Benzo (a) pyrene	0.0220	0.00500	"	0.0333	ND	66.0	30-120	1.38	30
Benzo (b) fluoranthene	0.0232	0.00500	"	0.0333	ND	69.6	30-120	4.71	30
Benzo (k) fluoranthene	0.0232	0.00500	"	0.0333	ND	69.6	30-120	3.18	30
Chrysene	0.0220	0.00500	"	0.0333	ND	66.0	30-120	2.18	30
Dibenz (a,h) anthracene	0.0234	0.00500	"	0.0333	ND	70.3	30-120	2.66	30
Fluoranthene	0.0244	0.00500	"	0.0333	ND	73.3	30-120	5.97	30
Fluorene	0.0223	0.00500	"	0.0333	ND	66.8	30-120	6.56	30
Indeno (1,2,3-cd) pyrene	0.0220	0.00500	"	0.0333	ND	66.0	30-120	2.80	30
Pyrene	0.0229	0.00500	"	0.0333	ND	68.6	35-142	0.103	30
1-Methylnaphthalene	0.0201	0.00500	"	0.0333	ND	60.2	15-130	3.43	50
2-Methylnaphthalene	0.0195	0.00500	"	0.0333	ND	58.5	15-130	14.2	50
Surrogate: 2-Methylnaphthalene-d10	0.0171		"	0.0333		51.3	40-150		
Surrogate: Fluoranthene-d10	0.0208		"	0.0333		62.3	40-150		

Summit Scientific

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

Project: Parmlee #1

Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
04/12/22 11:33

### Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 28, 2022

Jeb Watts

Tasman Geosciences

6855 W. 119th Ave.

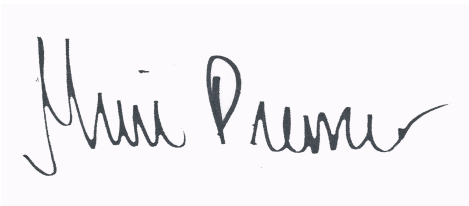
Broomfield, CO 80020

RE: Parmlee #1

Work Order #2201239

Enclosed are the results of analyses for samples received by Summit Scientific on 01/21/22 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Muri Premier", is displayed on a light purple rectangular background.

Muri Premier For Paul Shrewsbury  
President



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

Project: Parmlee #1

Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:18

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW02-R@2'	2201239-01	Soil	01/21/22 09:30	01/21/22 17:00
MW02-R@27'	2201239-02	Soil	01/21/22 09:45	01/21/22 17:00
MW02-R@34'	2201239-03	Soil	01/21/22 10:05	01/21/22 17:00
MW09@20'	2201239-04	Soil	01/21/22 11:25	01/21/22 17:00
MW09@32.25'	2201239-05	Soil	01/21/22 11:45	01/21/22 17:00
MW09@31'	2201239-06	Soil	01/21/22 12:05	01/21/22 17:00
MW08@22'	2201239-07	Soil	01/21/22 12:45	01/21/22 17:00
MW08@32.5'	2201239-08	Soil	01/21/22 13:05	01/21/22 17:00
MW08@32'	2201239-09	Soil	01/21/22 13:20	01/21/22 17:00
MW05-R@42'	2201239-10	Soil	01/21/22 15:30	01/21/22 17:00

Summit Scientific

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# Summit Scientific

2201239

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 1

Client: DCP/Tasman

Project Manager: Chandler Cole/ Jeb Watts

Address: 6855 W. 119th Ave.

E-Mail: jwatts@tasman-geo.com; vsruggs@tasman-geo.com

City/State/Zip: Broomfield CO 80020

cecole@dcpmidstream.com; swweathers@dcpmidstream.com

Phone: 303-487-1228

Project Name: Parmlee #1

Sampler Name: Steve Casaleggio

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	VOC's	TPH's	1,2,3,4,5,6,7,8,9,10,11,12	1,2,3,4,5,6,7,8,9,10,11,12		
1	MW02-RC 2'	1/21/22	9:30	2			X			X				X	X	X		1,2, Methyl naphthalene Only
2	MW02-RC 27'		9:45	2			X			X				X	X	X		
3	MW02-RC 34'		10:05	2			X			X				X	X	X		
4	MW09C 20'		11:25	2			X			X				X	X	X		
5	MW09C 32.25'		11:45	2			X			X				X	X	X		
6	MW09C 31'		12:05	2			X			X				X	X	X		
7	MW08C 22'		12:45	2			X			X				X	X	X		
8	MW08C 32.5'		13:05	2			X			X				X	X	X		
9	MW08C 32'		13:20	2			X			X				X	X	X		
10	MW09-RC 42'		15:30	2			X			X				X	X	X		

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time	(Check)	Notes:
	1/21/22 17:00	Shere Bala	1/21/22 17:00	Same Day	72 hours	<div> <div>Standard</div> <div>X</div> </div>
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours	Standard	
Relinquished by:	Date/Time:	Received by:	Date/Time:	48 hours	Standard	
				<b>Sample Integrity:</b> Temperature Upon Receipt: 7.0 Samples Intact: Yes No		



S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2201239

Client: DCP Tasman Client Project ID: Parmlee #1Shipped Via: ☒ H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: \_\_\_\_\_Matrix (check all that apply): ☐ Air ☒ Soil/Solid ☐ Water ☐ Other: \_\_\_\_\_  
(Describe)

Temp (°C)	7.0
-----------	-----

Thermometer ID: G86A9201901378

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

Additional Comments (if any):

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.S3  
Custodian Printed Name or Initials1/21/22 17:00  
Date/Time



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

Project: Parmlee #1

Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:18

**MW02-R@2'**  
**2201239-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/21/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFA0424	01/26/22	01/27/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/21/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		112 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/21/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0425	01/26/22	01/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/21/22 09:30**

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

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Parmlee #1  
Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:18

**MW02-R@2'**  
**2201239-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/21/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>1-Methylnaphthalene</b>	<b>0.00577</b>	0.00500	mg/kg	1	BFA0403	01/25/22	01/26/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/21/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		66.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		58.5 %	40-150		"	"	"	"	

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

Project: Parmlee #1  
Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:18

**MW02-R@27'**  
**2201239-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/21/22 09:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFA0424	01/26/22	01/27/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/21/22 09:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		113 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.8 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/21/22 09:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0425	01/26/22	01/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/21/22 09:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		94.9 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Parmlee #1

Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:18

**MW02-R@27'**  
**2201239-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/21/22 09:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.00500	mg/kg	1	BFA0403	01/25/22	01/26/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/21/22 09:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10		58.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		58.8 %	40-150		"	"	"	"	

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

Project: Parmlee #1

Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:18

**MW02-R@34'**  
**2201239-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/21/22 10:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFA0424	01/26/22	01/27/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/21/22 10:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		111 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.8 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/21/22 10:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0425	01/26/22	01/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/21/22 10:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		124 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Parmlee #1

Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:18

**MW02-R@34'**  
**2201239-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/21/22 10:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.00500	mg/kg	1	BFA0403	01/25/22	01/26/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/21/22 10:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10		63.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		51.8 %	40-150		"	"	"	"	

Summit Scientific

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

Project: Parmlee #1  
Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:18

**MW09@20'**  
**2201239-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/21/22 11:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFA0424	01/26/22	01/27/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/21/22 11:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		117 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/21/22 11:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0425	01/26/22	01/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/21/22 11:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		114 %	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: Parmlee #1  
Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:18

**MW09@20'**  
**2201239-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/21/22 11:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.00500	mg/kg	1	BFA0403	01/25/22	01/26/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/21/22 11:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10		55.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		60.5 %	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: Parmlee #1

Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:18

**MW09@32.25'**  
**2201239-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/21/22 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFA0424	01/26/22	01/27/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/21/22 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		113 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/21/22 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0425	01/26/22	01/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/21/22 11:45**

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

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Parmlee #1

Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:18

**MW09@32.25'**  
**2201239-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/21/22 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.00500	mg/kg	1	BFA0403	01/25/22	01/26/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/21/22 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10		67.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		58.2 %	40-150		"	"	"	"	

Summit Scientific

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

Project: Parmlee #1

Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:18

**MW09@31'**  
**2201239-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/21/22 12:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFA0424	01/26/22	01/27/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/21/22 12:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		111 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/21/22 12:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0425	01/26/22	01/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/21/22 12:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		112 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Parmlee #1

Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:18

**MW09@31'**  
**2201239-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/21/22 12:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.00500	mg/kg	1	BFA0403	01/25/22	01/26/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/21/22 12:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10		50.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		50.1 %	40-150		"	"	"	"	

Summit Scientific

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

Project: Parmlee #1

Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:18

**MW08@22'**  
**2201239-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/21/22 12:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFA0424	01/26/22	01/27/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/21/22 12:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		110 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/21/22 12:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0425	01/26/22	01/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/21/22 12:45**

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

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Parmlee #1  
Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:18

**MW08@22'**  
**2201239-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/21/22 12:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.00500	mg/kg	1	BFA0403	01/25/22	01/26/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/21/22 12:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10		56.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		40.1 %	40-150		"	"	"	"	

Summit Scientific

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

Project: Parmlee #1  
Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:18

**MW08@32.5'**  
**2201239-08 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/21/22 13:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFA0424	01/26/22	01/27/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/21/22 13:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		108 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		95.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.4 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/21/22 13:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0425	01/26/22	01/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/21/22 13:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		127 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Parmlee #1

Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:18

**MW08@32.5'**  
**2201239-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/21/22 13:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.00500	mg/kg	1	BFA0403	01/25/22	01/26/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/21/22 13:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10		68.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		66.6 %	40-150		"	"	"	"	

Summit Scientific

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

Project: Parmlee #1

Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:18

**MW08@32'**  
**2201239-09 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/21/22 13:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFA0424	01/26/22	01/27/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/21/22 13:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		113 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/21/22 13:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0425	01/26/22	01/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/21/22 13:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		145 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Parmlee #1

Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:18

**MW08@32'**  
**2201239-09 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/21/22 13:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.00500	mg/kg	1	BFA0403	01/25/22	01/26/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/21/22 13:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10		57.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		61.2 %	40-150		"	"	"	"	

Summit Scientific

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

Project: Parmlee #1  
Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:18

**MW05-R@42'**  
**2201239-10 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/21/22 15:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFA0424	01/26/22	01/27/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/21/22 15:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		107 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/21/22 15:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0425	01/26/22	01/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/21/22 15:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		129 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Parmlee #1  
Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:18

**MW05-R@42'**  
**2201239-10 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/21/22 15:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.00500	mg/kg	1	BFA0403	01/25/22	01/26/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/21/22 15:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10		58.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		65.0 %	40-150		"	"	"	"	

Summit Scientific

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

Project: Parmlee #1

Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:18

## 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 BFA0424 - EPA 5030 Soil MS

##### Blank (BFA0424-BLK1)

Prepared: 01/26/22 Analyzed: 01/27/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0453		"	0.0400		113	23-173			
Surrogate: Toluene-d8	0.0403		"	0.0400		101	20-170			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		100	21-167			

##### LCS (BFA0424-BS1)

Prepared: 01/26/22 Analyzed: 01/27/22

Benzene	0.0708	0.0020	mg/kg	0.0750		94.4	70-130			
Toluene	0.0673	0.0050	"	0.0750		89.7	70-130			
Ethylbenzene	0.0670	0.0050	"	0.0750		89.4	70-130			
m,p-Xylene	0.134	0.010	"	0.150		89.3	70-130			
o-Xylene	0.0694	0.0050	"	0.0750		92.6	70-130			
1,2,4-Trimethylbenzene	0.0687	0.0050	"	0.0750		91.6	70-130			
1,3,5-Trimethylbenzene	0.0681	0.0050	"	0.0750		90.8	70-130			
Naphthalene	0.0912	0.0038	"	0.0750		122	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0421		"	0.0400		105	23-173			
Surrogate: Toluene-d8	0.0389		"	0.0400		97.4	20-170			
Surrogate: 4-Bromofluorobenzene	0.0417		"	0.0400		104	21-167			

##### Matrix Spike (BFA0424-MS1)

Source: 2201239-01

Prepared: 01/26/22 Analyzed: 01/27/22

Benzene	0.0714	0.0020	mg/kg	0.0750	ND	95.2	70-130			
Toluene	0.0734	0.0050	"	0.0750	ND	97.8	70-130			
Ethylbenzene	0.0693	0.0050	"	0.0750	ND	92.4	70-130			
m,p-Xylene	0.139	0.010	"	0.150	ND	92.9	70-130			
o-Xylene	0.0726	0.0050	"	0.0750	ND	96.8	70-130			
1,2,4-Trimethylbenzene	0.0770	0.0050	"	0.0750	ND	103	70-130			
1,3,5-Trimethylbenzene	0.0738	0.0050	"	0.0750	ND	98.4	70-130			
Naphthalene	0.0736	0.0038	"	0.0750	ND	98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0476		"	0.0400		119	23-173			
Surrogate: Toluene-d8	0.0420		"	0.0400		105	20-170			
Surrogate: 4-Bromofluorobenzene	0.0430		"	0.0400		108	21-167			

Summit Scientific

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



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

Project: Parmlee #1

Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:18

**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 BFA0424 - EPA 5030 Soil MS**

Matrix Spike Dup (BFA0424-MSD1)	Source: 2201239-01			Prepared: 01/26/22 Analyzed: 01/27/22						
Benzene	0.0702	0.0020	mg/kg	0.0750	ND	93.6	70-130	1.65	30	
Toluene	0.0680	0.0050	"	0.0750	ND	90.7	70-130	7.56	30	
Ethylbenzene	0.0692	0.0050	"	0.0750	ND	92.3	70-130	0.173	30	
m,p-Xylene	0.137	0.010	"	0.150	ND	91.2	70-130	1.93	30	
o-Xylene	0.0713	0.0050	"	0.0750	ND	95.1	70-130	1.75	30	
1,2,4-Trimethylbenzene	0.0728	0.0050	"	0.0750	ND	97.0	70-130	5.61	30	
1,3,5-Trimethylbenzene	0.0703	0.0050	"	0.0750	ND	93.7	70-130	4.87	30	
Naphthalene	0.0807	0.0038	"	0.0750	ND	108	70-130	9.21	30	
Surrogate: 1,2-Dichloroethane-d4	0.0443		"	0.0400		111	23-173			
Surrogate: Toluene-d8	0.0393		"	0.0400		98.3	20-170			
Surrogate: 4-Bromofluorobenzene	0.0405		"	0.0400		101	21-167			

Summit Scientific

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

Project: Parmlee #1

Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:18

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

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

**Batch BFA0425 - EPA 3550A**

**Blank (BFA0425-BLK1)**

Prepared: 01/26/22 Analyzed: 01/27/22

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

**LCS (BFA0425-BS1)**

Prepared: 01/26/22 Analyzed: 01/27/22

C10-C28 (DRO)	454	50	mg/kg	500	90.8	70-130
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**Matrix Spike (BFA0425-MS1)**

Source: 2201239-01

Prepared: 01/26/22 Analyzed: 01/27/22

C10-C28 (DRO)	508	50	mg/kg	500	41.1	93.5	70-130
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**Matrix Spike Dup (BFA0425-MSD1)**

Source: 2201239-01

Prepared: 01/26/22 Analyzed: 01/27/22

C10-C28 (DRO)	505	50	mg/kg	500	41.1	92.7	70-130	0.719	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: Parmlee #1  
Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:18

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

### Summit Scientific

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

#### Batch BFA0403 - EPA 5030 Soil MS

##### Blank (BFA0403-BLK1)

Prepared: 01/25/22 Analyzed: 01/26/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0171		"	0.0333		51.4	40-150			
Surrogate: Fluoranthene-d10	0.0164		"	0.0333		49.2	40-150			

##### LCS (BFA0403-BS1)

Prepared: 01/25/22 Analyzed: 01/26/22

Acenaphthene	0.0178	0.00500	mg/kg	0.0333		53.5	31-137			
Anthracene	0.0192	0.00500	"	0.0333		57.7	30-120			
Benzo (a) anthracene	0.0202	0.00500	"	0.0333		60.5	30-120			
Benzo (a) pyrene	0.0180	0.00500	"	0.0333		53.9	30-120			
Benzo (b) fluoranthene	0.0181	0.00500	"	0.0333		54.3	30-120			
Benzo (k) fluoranthene	0.0178	0.00500	"	0.0333		53.4	30-120			
Chrysene	0.0184	0.00500	"	0.0333		55.2	30-120			
Dibenz (a,h) anthracene	0.0178	0.00500	"	0.0333		53.3	30-120			
Fluoranthene	0.0187	0.00500	"	0.0333		56.1	30-120			
Fluorene	0.0180	0.00500	"	0.0333		54.1	30-120			
Indeno (1,2,3-cd) pyrene	0.0165	0.00500	"	0.0333		49.6	30-120			
Pyrene	0.0171	0.00500	"	0.0333		51.4	35-142			
1-Methylnaphthalene	0.0183	0.00500	"	0.0333		54.9	35-142			
2-Methylnaphthalene	0.0182	0.00500	"	0.0333		54.7	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0193		"	0.0333		58.0	40-150			
Surrogate: Fluoranthene-d10	0.0201		"	0.0333		60.2	40-150			

Summit Scientific

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

Project: Parmlee #1

Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:18

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

### Summit Scientific

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

#### Batch BFA0403 - EPA 5030 Soil MS

##### Matrix Spike (BFA0403-MS1)

Source: 2201239-01

Prepared: 01/25/22 Analyzed: 01/26/22

Acenaphthene	0.0164	0.00500	mg/kg	0.0333	ND	49.2	31-137		
Anthracene	0.0165	0.00500	"	0.0333	ND	49.6	30-120		
Benzo (a) anthracene	0.0180	0.00500	"	0.0333	ND	54.1	30-120		
Benzo (a) pyrene	0.0186	0.00500	"	0.0333	ND	55.8	30-120		
Benzo (b) fluoranthene	0.0183	0.00500	"	0.0333	ND	54.9	30-120		
Benzo (k) fluoranthene	0.0213	0.00500	"	0.0333	ND	63.8	30-120		
Chrysene	0.0195	0.00500	"	0.0333	ND	58.6	30-120		
Dibenz (a,h) anthracene	0.0220	0.00500	"	0.0333	ND	66.1	30-120		
Fluoranthene	0.0185	0.00500	"	0.0333	ND	55.6	30-120		
Fluorene	0.0181	0.00500	"	0.0333	ND	54.2	30-120		
Indeno (1,2,3-cd) pyrene	0.0234	0.00500	"	0.0333	ND	70.1	30-120		
Pyrene	0.0205	0.00500	"	0.0333	ND	61.6	35-142		
1-Methylnaphthalene	0.0207	0.00500	"	0.0333	0.00577	44.8	15-130		
2-Methylnaphthalene	0.0254	0.00500	"	0.0333	ND	76.3	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0165		"	0.0333		49.5	40-150		
Surrogate: Fluoranthene-d10	0.0172		"	0.0333		51.7	40-150		

##### Matrix Spike Dup (BFA0403-MSD1)

Source: 2201239-01

Prepared: 01/25/22 Analyzed: 01/26/22

Acenaphthene	0.0207	0.00500	mg/kg	0.0333	ND	62.0	31-137	22.9	30
Anthracene	0.0207	0.00500	"	0.0333	ND	62.2	30-120	22.6	30
Benzo (a) anthracene	0.0211	0.00500	"	0.0333	ND	63.4	30-120	15.8	30
Benzo (a) pyrene	0.0228	0.00500	"	0.0333	ND	68.4	30-120	20.2	30
Benzo (b) fluoranthene	0.0227	0.00500	"	0.0333	ND	68.1	30-120	21.5	30
Benzo (k) fluoranthene	0.0257	0.00500	"	0.0333	ND	77.2	30-120	19.1	30
Chrysene	0.0226	0.00500	"	0.0333	ND	67.9	30-120	14.8	30
Dibenz (a,h) anthracene	0.0237	0.00500	"	0.0333	ND	71.0	30-120	7.15	30
Fluoranthene	0.0221	0.00500	"	0.0333	ND	66.3	30-120	17.6	30
Fluorene	0.0219	0.00500	"	0.0333	ND	65.6	30-120	19.0	30
Indeno (1,2,3-cd) pyrene	0.0210	0.00500	"	0.0333	ND	62.9	30-120	10.8	30
Pyrene	0.0224	0.00500	"	0.0333	ND	67.3	35-142	8.79	30
1-Methylnaphthalene	0.0299	0.00500	"	0.0333	0.00577	72.4	15-130	36.4	50
2-Methylnaphthalene	0.0291	0.00500	"	0.0333	ND	87.3	15-130	13.4	50
Surrogate: 2-Methylnaphthalene-d10	0.0233		"	0.0333		69.9	40-150		
Surrogate: Fluoranthene-d10	0.0217		"	0.0333		65.2	40-150		

Summit Scientific

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

Project: Parmlee #1

Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:18

### Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 28, 2022

Jeb Watts

Tasman Geosciences

6855 W. 119th Ave.

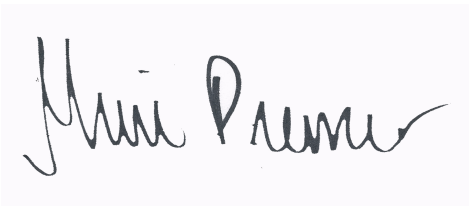
Broomfield, CO 80020

RE: Parmlee #1

Work Order #2201281

Enclosed are the results of analyses for samples received by Summit Scientific on 01/24/22 14:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Muri Premier", on a light purple rectangular background.

Muri Premier For Paul Shrewsbury  
President



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

Project: Parmlee #1

Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:35

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01-R@33-34'	2201281-01	Soil	01/24/22 09:50	01/24/22 14:10
MW01-R@34-35'	2201281-02	Soil	01/24/22 10:05	01/24/22 14:10
MW06@30-31'	2201281-03	Soil	01/24/22 11:00	01/24/22 14:10
MW06@32-33'	2201281-04	Soil	01/24/22 11:15	01/24/22 14:10

Summit Scientific

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

## 2201281

Page 1 of 1

Project Manager: Jeb Watts / Chandler Cole  
E-Mail: jwatts@psn-gov.com / ccole@dpuhdist.com, com / vscripps@psn-gov.com  
Project Name: Parmec #1  
Project Number:

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

S<sub>2</sub>

2201281

## Sample Receipt Checklist

S2 Work Order#

Client: DCP-Tasman Client Project ID: Parmlee#1Shipped Via: ☐ H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐Matrix (check all that apply): ☐ Air ☒ Soil/Solid ☐ Water ☐ Other: ☐  
(Describe)Temp (°C) 3.2

Thermometer ID: G86A9201901378

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

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

  
 Custodian Printed Name or Initials

12422  
 Date/Time



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

Project: Parmlee #1

Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:35

**MW01-R@33-34'**  
**2201281-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/24/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFA0424	01/26/22	01/27/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/24/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		95.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.1 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/24/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0425	01/26/22	01/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/24/22 09:50**

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

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Parmlee #1  
Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:35

**MW01-R@33-34'**  
**2201281-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/24/22 09:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.00500	mg/kg	1	BFA0421	01/26/22	01/27/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/24/22 09:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10		56.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		59.7 %	40-150		"	"	"	"	

Summit Scientific

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

Project: Parmlee #1

Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:35

**MW01-R@34-35'**  
**2201281-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/24/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFA0424	01/26/22	01/27/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/24/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		116 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.8 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/24/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0425	01/26/22	01/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/24/22 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		142 %	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: Parmlee #1  
Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:35

**MW01-R@34-35'**  
**2201281-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/24/22 10:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.00500	mg/kg	1	BFA0421	01/26/22	01/27/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/24/22 10:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10		60.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		68.2 %	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: Parmlee #1  
Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:35

**MW06@30-31'**  
**2201281-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/24/22 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFA0424	01/26/22	01/27/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/24/22 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		109 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.4 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/24/22 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0425	01/26/22	01/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/24/22 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		129 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Parmlee #1  
Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:35

**MW06@30-31'**  
**2201281-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/24/22 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.00500	mg/kg	1	BFA0421	01/26/22	01/27/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/24/22 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10		47.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		54.1 %	40-150		"	"	"	"	

Summit Scientific

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

Project: Parmlee #1  
Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:35

**MW06@32-33'**  
**2201281-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **01/24/22 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFA0424	01/26/22	01/27/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/24/22 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		116 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.9 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/24/22 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0425	01/26/22	01/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/24/22 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		109 %	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: Parmlee #1

Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:35

**MW06@32-33'**  
**2201281-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **01/24/22 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.00500	mg/kg	1	BFA0421	01/26/22	01/27/22	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/24/22 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10		69.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		58.4 %	40-150		"	"	"	"	

Summit Scientific

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

Project: Parmlee #1

Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:35

## 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 BFA0424 - EPA 5030 Soil MS

##### Blank (BFA0424-BLK1)

Prepared: 01/26/22 Analyzed: 01/27/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0453		"	0.0400		113	23-173			
Surrogate: Toluene-d8	0.0403		"	0.0400		101	20-170			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		100	21-167			

##### LCS (BFA0424-BS1)

Prepared: 01/26/22 Analyzed: 01/27/22

Benzene	0.0708	0.0020	mg/kg	0.0750		94.4	70-130			
Toluene	0.0673	0.0050	"	0.0750		89.7	70-130			
Ethylbenzene	0.0670	0.0050	"	0.0750		89.4	70-130			
m,p-Xylene	0.134	0.010	"	0.150		89.3	70-130			
o-Xylene	0.0694	0.0050	"	0.0750		92.6	70-130			
1,2,4-Trimethylbenzene	0.0687	0.0050	"	0.0750		91.6	70-130			
1,3,5-Trimethylbenzene	0.0681	0.0050	"	0.0750		90.8	70-130			
Naphthalene	0.0912	0.0038	"	0.0750		122	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0421		"	0.0400		105	23-173			
Surrogate: Toluene-d8	0.0389		"	0.0400		97.4	20-170			
Surrogate: 4-Bromofluorobenzene	0.0417		"	0.0400		104	21-167			

##### Matrix Spike (BFA0424-MS1)

Source: 2201239-01

Prepared: 01/26/22 Analyzed: 01/27/22

Benzene	0.0714	0.0020	mg/kg	0.0750	ND	95.2	70-130			
Toluene	0.0734	0.0050	"	0.0750	ND	97.8	70-130			
Ethylbenzene	0.0693	0.0050	"	0.0750	ND	92.4	70-130			
m,p-Xylene	0.139	0.010	"	0.150	ND	92.9	70-130			
o-Xylene	0.0726	0.0050	"	0.0750	ND	96.8	70-130			
1,2,4-Trimethylbenzene	0.0770	0.0050	"	0.0750	ND	103	70-130			
1,3,5-Trimethylbenzene	0.0738	0.0050	"	0.0750	ND	98.4	70-130			
Naphthalene	0.0736	0.0038	"	0.0750	ND	98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0476		"	0.0400		119	23-173			
Surrogate: Toluene-d8	0.0420		"	0.0400		105	20-170			
Surrogate: 4-Bromofluorobenzene	0.0430		"	0.0400		108	21-167			

Summit Scientific

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

Project: Parmlee #1

Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:35

**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 BFA0424 - EPA 5030 Soil MS**

Matrix Spike Dup (BFA0424-MSD1)	Source: 2201239-01			Prepared: 01/26/22 Analyzed: 01/27/22						
Benzene	0.0702	0.0020	mg/kg	0.0750	ND	93.6	70-130	1.65	30	
Toluene	0.0680	0.0050	"	0.0750	ND	90.7	70-130	7.56	30	
Ethylbenzene	0.0692	0.0050	"	0.0750	ND	92.3	70-130	0.173	30	
m,p-Xylene	0.137	0.010	"	0.150	ND	91.2	70-130	1.93	30	
o-Xylene	0.0713	0.0050	"	0.0750	ND	95.1	70-130	1.75	30	
1,2,4-Trimethylbenzene	0.0728	0.0050	"	0.0750	ND	97.0	70-130	5.61	30	
1,3,5-Trimethylbenzene	0.0703	0.0050	"	0.0750	ND	93.7	70-130	4.87	30	
Naphthalene	0.0807	0.0038	"	0.0750	ND	108	70-130	9.21	30	
Surrogate: 1,2-Dichloroethane-d4	0.0443		"	0.0400		111	23-173			
Surrogate: Toluene-d8	0.0393		"	0.0400		98.3	20-170			
Surrogate: 4-Bromofluorobenzene	0.0405		"	0.0400		101	21-167			

Summit Scientific

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

Project: Parmlee #1

Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:35

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

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

**Batch BFA0425 - EPA 3550A**

**Blank (BFA0425-BLK1)**

Prepared: 01/26/22 Analyzed: 01/27/22

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

**LCS (BFA0425-BS1)**

Prepared: 01/26/22 Analyzed: 01/27/22

C10-C28 (DRO)	454	50	mg/kg	500	90.8	70-130
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**Matrix Spike (BFA0425-MS1)**

Source: 2201239-01

Prepared: 01/26/22 Analyzed: 01/27/22

C10-C28 (DRO)	508	50	mg/kg	500	41.1	93.5	70-130
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**Matrix Spike Dup (BFA0425-MSD1)**

Source: 2201239-01

Prepared: 01/26/22 Analyzed: 01/27/22

C10-C28 (DRO)	505	50	mg/kg	500	41.1	92.7	70-130	0.719	20
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Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Parmlee #1  
Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:35

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

### Summit Scientific

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

#### Batch BFA0421 - EPA 5030 Soil MS

##### Blank (BFA0421-BLK1)

Prepared: 01/26/22 Analyzed: 01/27/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0250		"	0.0333		75.0	40-150			
Surrogate: Fluoranthene-d10	0.0246		"	0.0333		73.9	40-150			

##### LCS (BFA0421-BS1)

Prepared: 01/26/22 Analyzed: 01/27/22

Acenaphthene	0.0268	0.00500	mg/kg	0.0333		80.4	31-137			
Anthracene	0.0271	0.00500	"	0.0333		81.4	30-120			
Benzo (a) anthracene	0.0283	0.00500	"	0.0333		84.8	30-120			
Benzo (a) pyrene	0.0261	0.00500	"	0.0333		78.3	30-120			
Benzo (b) fluoranthene	0.0280	0.00500	"	0.0333		84.1	30-120			
Benzo (k) fluoranthene	0.0269	0.00500	"	0.0333		80.6	30-120			
Chrysene	0.0266	0.00500	"	0.0333		79.8	30-120			
Dibenz (a,h) anthracene	0.0170	0.00500	"	0.0333		51.0	30-120			
Fluoranthene	0.0259	0.00500	"	0.0333		77.7	30-120			
Fluorene	0.0268	0.00500	"	0.0333		80.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0160	0.00500	"	0.0333		48.0	30-120			
Pyrene	0.0241	0.00500	"	0.0333		72.4	35-142			
1-Methylnaphthalene	0.0287	0.00500	"	0.0333		86.1	35-142			
2-Methylnaphthalene	0.0274	0.00500	"	0.0333		82.2	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0295		"	0.0333		88.6	40-150			
Surrogate: Fluoranthene-d10	0.0269		"	0.0333		80.8	40-150			

Summit Scientific

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

Project: Parmlee #1

Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:35

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

### Summit Scientific

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

#### Batch BFA0421 - EPA 5030 Soil MS

##### Matrix Spike (BFA0421-MS1)

Source: 2201276-01

Prepared: 01/26/22 Analyzed: 01/27/22

Acenaphthene	0.0163	0.00500	mg/kg	0.0333	ND	48.8	31-137		
Anthracene	0.0171	0.00500	"	0.0333	ND	51.3	30-120		
Benzo (a) anthracene	0.0179	0.00500	"	0.0333	ND	53.6	30-120		
Benzo (a) pyrene	0.0153	0.00500	"	0.0333	ND	45.9	30-120		
Benzo (b) fluoranthene	0.0193	0.00500	"	0.0333	ND	57.9	30-120		
Benzo (k) fluoranthene	0.0192	0.00500	"	0.0333	ND	57.5	30-120		
Chrysene	0.0166	0.00500	"	0.0333	ND	49.7	30-120		
Dibenz (a,h) anthracene	0.0101	0.00500	"	0.0333	ND	30.3	30-120		
Fluoranthene	0.0164	0.00500	"	0.0333	ND	49.3	30-120		
Fluorene	0.0163	0.00500	"	0.0333	ND	48.9	30-120		
Indeno (1,2,3-cd) pyrene	0.0175	0.00500	"	0.0333	ND	52.6	30-120		
Pyrene	0.0159	0.00500	"	0.0333	ND	47.6	35-142		
1-Methylnaphthalene	0.0170	0.00500	"	0.0333	ND	50.9	15-130		
2-Methylnaphthalene	0.0163	0.00500	"	0.0333	ND	48.8	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0165		"	0.0333		49.6	40-150		
Surrogate: Fluoranthene-d10	0.0175		"	0.0333		52.4	40-150		

##### Matrix Spike Dup (BFA0421-MSD1)

Source: 2201276-01

Prepared: 01/26/22 Analyzed: 01/27/22

Acenaphthene	0.0209	0.00500	mg/kg	0.0333	ND	62.8	31-137	25.1	30
Anthracene	0.0214	0.00500	"	0.0333	ND	64.1	30-120	22.3	30
Benzo (a) anthracene	0.0227	0.00500	"	0.0333	ND	68.2	30-120	24.0	30
Benzo (a) pyrene	0.0202	0.00500	"	0.0333	ND	60.6	30-120	27.6	30
Benzo (b) fluoranthene	0.0219	0.00500	"	0.0333	ND	65.7	30-120	12.7	30
Benzo (k) fluoranthene	0.0216	0.00500	"	0.0333	ND	64.7	30-120	11.7	30
Chrysene	0.0214	0.00500	"	0.0333	ND	64.3	30-120	25.7	30
Dibenz (a,h) anthracene	0.0127	0.00500	"	0.0333	ND	38.2	30-120	23.1	30
Fluoranthene	0.0209	0.00500	"	0.0333	ND	62.7	30-120	23.9	30
Fluorene	0.0214	0.00500	"	0.0333	ND	64.1	30-120	26.9	30
Indeno (1,2,3-cd) pyrene	0.0159	0.00500	"	0.0333	ND	47.6	30-120	9.85	30
Pyrene	0.0199	0.00500	"	0.0333	ND	59.7	35-142	22.6	30
1-Methylnaphthalene	0.0220	0.00500	"	0.0333	ND	66.1	15-130	25.8	50
2-Methylnaphthalene	0.0207	0.00500	"	0.0333	ND	62.2	15-130	24.1	50
Surrogate: 2-Methylnaphthalene-d10	0.0212		"	0.0333		63.6	40-150		
Surrogate: Fluoranthene-d10	0.0223		"	0.0333		67.0	40-150		

Summit Scientific

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



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

Project: Parmlee #1

Project Number: [none]  
Project Manager: Jeb Watts

**Reported:**  
01/28/22 11:35

### Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



March 14, 2022

Tasman Geosciences

Jeb Watts

6855 West 119th Avenue

Broomfield CO 80020

Project Name - DCP - Parmlee #1

Project Number - [none]

Attached are your analytical results for DCP - Parmlee #1 received by Origins Laboratory, Inc. March 02, 2022. This project is associated with Origins project number Y203079-01.

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

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

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

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

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

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



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

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Jeb Watts  
Project Number: [none]  
Project: DCP - Parmlee #1

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW02-R	Y203079-01	Water	March 2, 2022 11:50	03/02/2022 17:10
MW05-R	Y203079-02	Water	March 2, 2022 12:04	03/02/2022 17:10
MW06	Y203079-03	Water	March 2, 2022 11:32	03/02/2022 17:10
MW09	Y203079-04	Water	March 2, 2022 11:08	03/02/2022 17:10

Origins Laboratory, Inc.



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

Jen Pellegrini, Project Manager

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Jeb Watts  
Project Number: [none]  
Project: DCP - Parmlee #1

**ORIGINS**  
LABORATORY, INC

www.originslaboratory.com

705079

page 1 of 1

Client: DCP-Tasman  
Address: 6855 W 119th Ave  
Broomfield, CO, 80020  
Telephone Number: 303-447-1226  
Email Address: jwatts@tasman-geo.com; cecilia@tasman-geo.com  
Project Manager: Jeb Wattel Chandler Cole  
Project Name: Parmlee #1  
Project Number:  
Samples Collected By: Justin Milosovich

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other	Table 415-1 Org. Metals	
MW02-R	3/02/22	1150	3		X			X					1
MW05-R	↑	1204	3		X			X					2
MW06	↑	1132	3		X			X					3
MW09	↑	1106	3		X			X					4
													5
													6
													7
													8
													9
													10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
Justin Milosovich	3/02/22		[Signature]	3/2/22	1710	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	

Date Results Needed

Temp Received- 4.0

Origins Laboratory, Inc.

Jefe Pellegrini

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



Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Jeb Watts  
Project Number: [none]  
Project: DCP - Parmlee #1

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: Y203079 Client: Tasman  
Client Project ID: Parmlee #1

Checklist Completed by: SG Shipped Via: HD  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Date/time completed: 3/3/22 Airbill #: N/A

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

Cooler Number/Temperature: 1, 4.6 °C 1 °C 1 °C (Describe) °C

Thermometer ID: T003

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

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

Reviewed by (Project Manager) JP Date/Time Reviewed 3/4/22

Origins Laboratory, Inc.

*Jen Pellegrini*

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

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Jeb Watts  
Project Number: [none]  
Project: DCP - Parmlee #1

## MW02-R

3/2/2022 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y203079-01 (Water)

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	7.74	2.00	ug/L	1	B2C0422	ZZZ	03/04/2022	03/05/2022	
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	3.26	1.00	"	"	"	ZZZ	"	"	
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.2 %	70-130			"	"	"
Surrogate: Toluene-d8	110 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Jeb Watts  
Project Number: [none]  
Project: DCP - Parmlee #1

## MW05-R

3/2/2022 12:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y203079-02 (Water)

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C0422	ZZZ	03/04/2022	03/05/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.2 %	70-130	"	"	"
Surrogate: Toluene-d8	103 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.5 %	70-130	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Jeb Watts  
Project Number: [none]  
Project: DCP - Parmlee #1

## MW06

3/2/2022 11:32:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y203079-03 (Water)

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C0422	ZZZ	03/04/2022	03/05/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.9 %	70-130	"	"	"
Surrogate: Toluene-d8	103 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.8 %	70-130	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Jeb Watts  
Project Number: [none]  
Project: DCP - Parmlee #1

## MW09

3/2/2022 11:08:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y203079-04 (Water)

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C0422	ZZZ	03/04/2022	03/06/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.8 %	70-130	"	"	"
Surrogate: Toluene-d8	111 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	95.4 %	70-130	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Jeb Watts  
Project Number: [none]  
Project: DCP - Parmlee #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2C0422 - EPA 5030B (Water)</b>										
<b>Blank (B2C0422-BLK1)</b>					Prepared: 03/04/2022 Analyzed: 03/05/2022					
1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	54		"	62.5		86.7	70-130			
Surrogate: Toluene-d8	69		"	62.5		110	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.2	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Jeb Watts  
Project Number: [none]  
Project: DCP - Parmlee #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2C0422 - EPA 5030B (Water)</b>										
<b>LCS (B2C0422-BS1)</b>					Prepared: 03/04/2022 Analyzed: 03/05/2022					
1,2,4-Trimethylbenzene	50.9	2.00	ug/L	50.0		102	70-130			
1,3,5-Trimethylbenzene	51.7	2.00	"	50.0		103	70-130			
Benzene	43.5	1.00	"	50.0		86.9	70-130			
Ethylbenzene	51.7	1.00	"	50.0		103	70-130			
m,p-Xylene	103	2.00	"	100		103	70-130			
Naphthalene	49.0	2.00	"	50.0		97.9	70-130			
o-Xylene	51.1	1.00	"	50.0		102	70-130			
Toluene	45.9	1.00	"	50.0		91.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	54		"	62.5		85.7	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Jeb Watts  
Project Number: [none]  
Project: DCP - Parmlee #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2C0422 - EPA 5030B (Water)**

Matrix Spike (B2C0422-MS1)		Source: Y203060-01			Prepared: 03/04/2022 Analyzed: 03/05/2022					
1,2,4-Trimethylbenzene	51.7	2.00	ug/L	50.0	ND	103	70-130			
1,3,5-Trimethylbenzene	51.5	2.00	"	50.0	ND	103	70-130			
Benzene	45.0	1.00	"	50.0	ND	90.0	70-130			
Ethylbenzene	51.0	1.00	"	50.0	ND	102	70-130			
m,p-Xylene	102	2.00	"	100	ND	102	70-130			
Naphthalene	49.7	2.00	"	50.0	ND	99.4	70-130			
o-Xylene	50.6	1.00	"	50.0	ND	101	70-130			
Toluene	44.4	1.00	"	50.0	ND	88.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	55		"	62.5		87.8	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager



Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Jeb Watts  
Project Number: [none]  
Project: DCP - Parmlee #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2C0422 - EPA 5030B (Water)</b>										
<b>Matrix Spike Dup (B2C0422-MSD1)</b>	<b>Source: Y203060-01</b>				Prepared: 03/04/2022 Analyzed: 03/05/2022					
1,2,4-Trimethylbenzene	50.2	2.00	ug/L	50.0	ND	100	70-130	2.88	20	
1,3,5-Trimethylbenzene	50.1	2.00	"	50.0	ND	100	70-130	2.79	20	
Benzene	44.4	1.00	"	50.0	ND	88.7	70-130	1.48	20	
Ethylbenzene	49.5	1.00	"	50.0	ND	99.1	70-130	3.02	20	
m,p-Xylene	98.3	2.00	"	100	ND	98.3	70-130	3.58	20	
Naphthalene	51.2	2.00	"	50.0	ND	102	70-130	3.03	20	
o-Xylene	49.4	1.00	"	50.0	ND	98.7	70-130	2.36	20	
Toluene	43.8	1.00	"	50.0	ND	87.6	70-130	1.38	20	
Surrogate: 1,2-Dichloroethane-d4	55		"	62.5		88.5	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Jeb Watts  
Project Number: [none]  
Project: DCP - Parmlee #1

### Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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

Jen Pellegrini, Project Manager



6899 Pecos Street, Unit C  
Denver, Colorado 80221

CLIENT: DCP

LOGGED BY: S. Casaleggio

PROJECT MANAGER: Jeb Watts

DRILLING CONTRACTOR: Site Services

DRILLING EQUIPMENT: Geoprobe DP

DRILL BIT SIZE (INCHES): 2.25

DATE STARTED - COMPLETED: 1/24/2022

TOTAL BORING DEPTH (FT. BGS): 35

DEPTH TO WATER (FT. BGS):

Parmlee #1

BORING / WELL ID: MW01-R

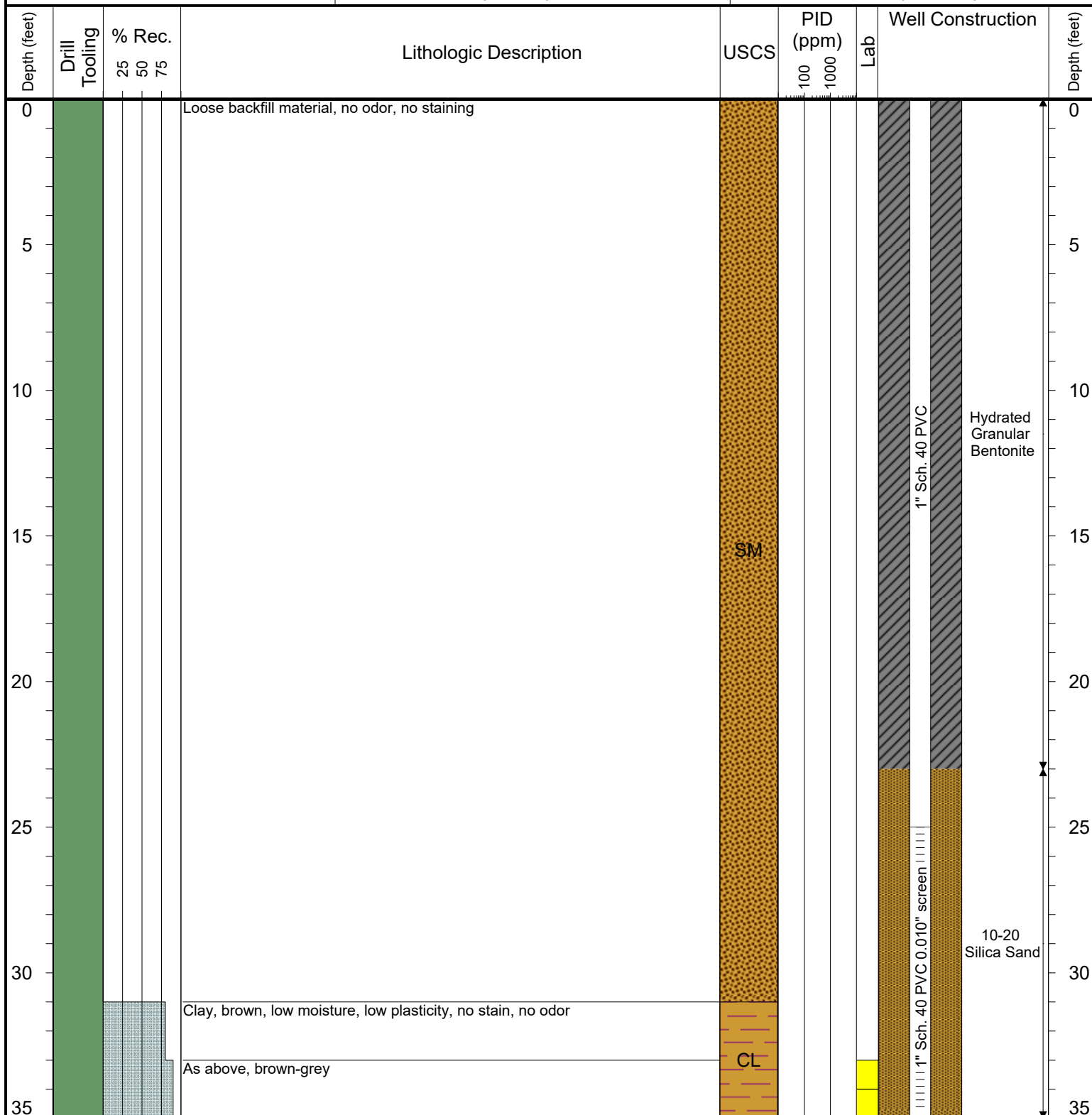
LOCATION: Weld County, CO

LATITUDE (DEGREES): 40.25522718

LONGITUDE (DEGREES): -104.266066484

CASING ELEVATION (FT. AMSL): 4602.19104

GROUND ELEVATION (FT. AMSL): 4602.48104



Drilling / Sample Method:

Geoprobe Direct-Push  
 Hand Auger

Laboratory Sample Types:

Solid Stem Auger  
 Hollow Stem Auger

Geotechnical Lab  
 Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C  
Denver, Colorado 80221

CLIENT: DCP

LOGGED BY: S. Casaleggio

PROJECT MANAGER: Jeb Watts

DRILLING CONTRACTOR: Site Services

DRILLING EQUIPMENT: Geoprobe DP

DRILL BIT SIZE (INCHES): 2.25

DATE STARTED - COMPLETED: 1/21/2022

TOTAL BORING DEPTH (FT. BGS): 34

DEPTH TO WATER (FT. BGS):

Parmlee #1

BORING / WELL ID: MW02-R

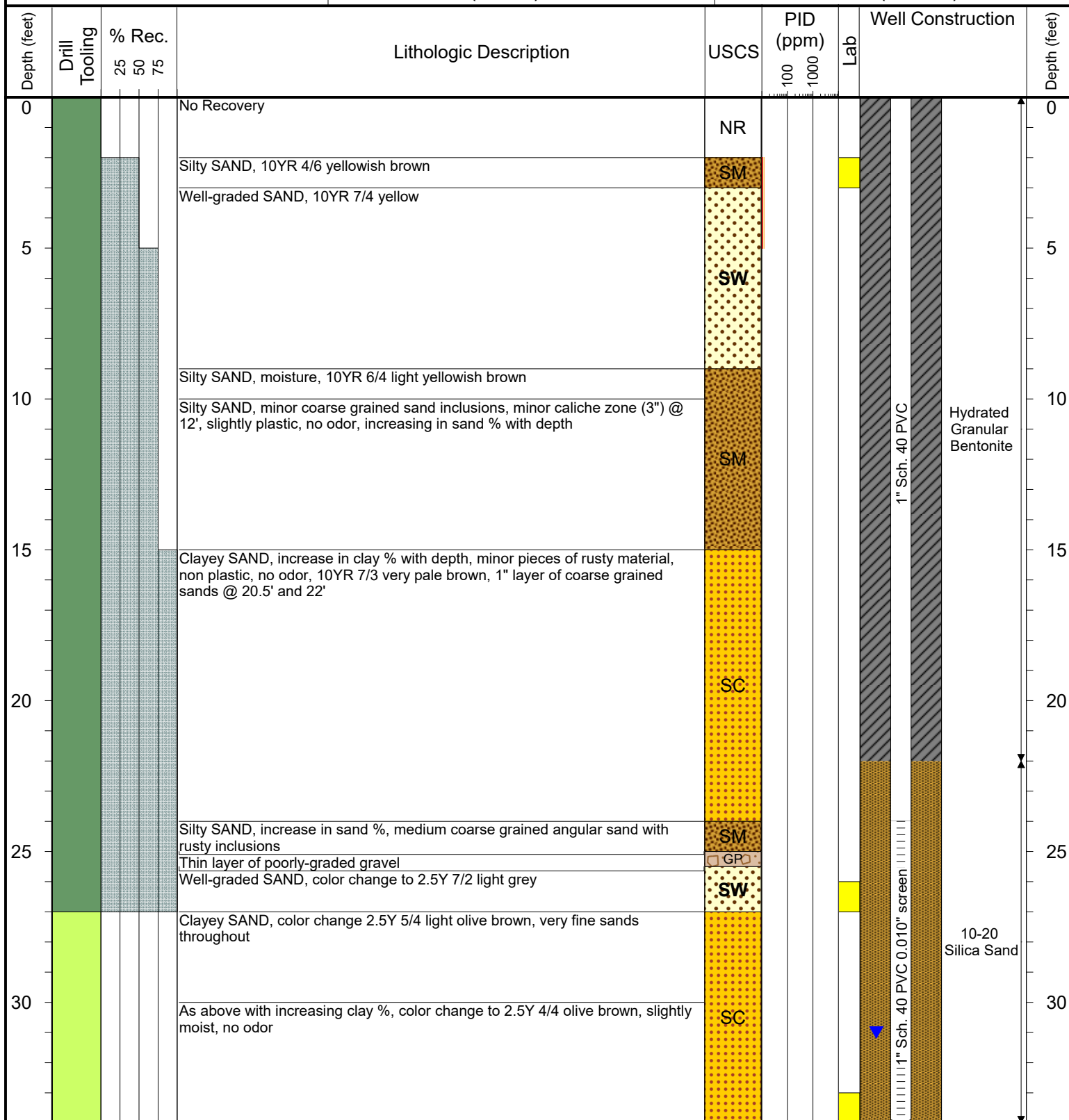
LOCATION: Weld County, CO

LATITUDE (DEGREES): 40.255195352

LONGITUDE (DEGREES): -104.265826809

CASING ELEVATION (FT. AMSL): 4603.17104

GROUND ELEVATION (FT. AMSL): 4603.35104



Drilling / Sample Method:

Geoprobe Direct-Push  
Hand Auger

Solid Stem Auger  
Hollow Stem Auger

Laboratory Sample Types:

Geotechnical Lab  
Analytical Chemistry Lab  
Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C  
Denver, Colorado 80221

CLIENT: DCP

LOGGED BY: S. Casaleggio

PROJECT MANAGER: Jeb Watts

DRILLING CONTRACTOR: Site Services

DRILLING EQUIPMENT: Geoprobe DP

DRILL BIT SIZE (INCHES): 2.25

DATE STARTED - COMPLETED: 1/21/2022

TOTAL BORING DEPTH (FT. BGS): 42

DEPTH TO WATER (FT. BGS):

Parmlee #1

BORING / WELL ID: MW05-R

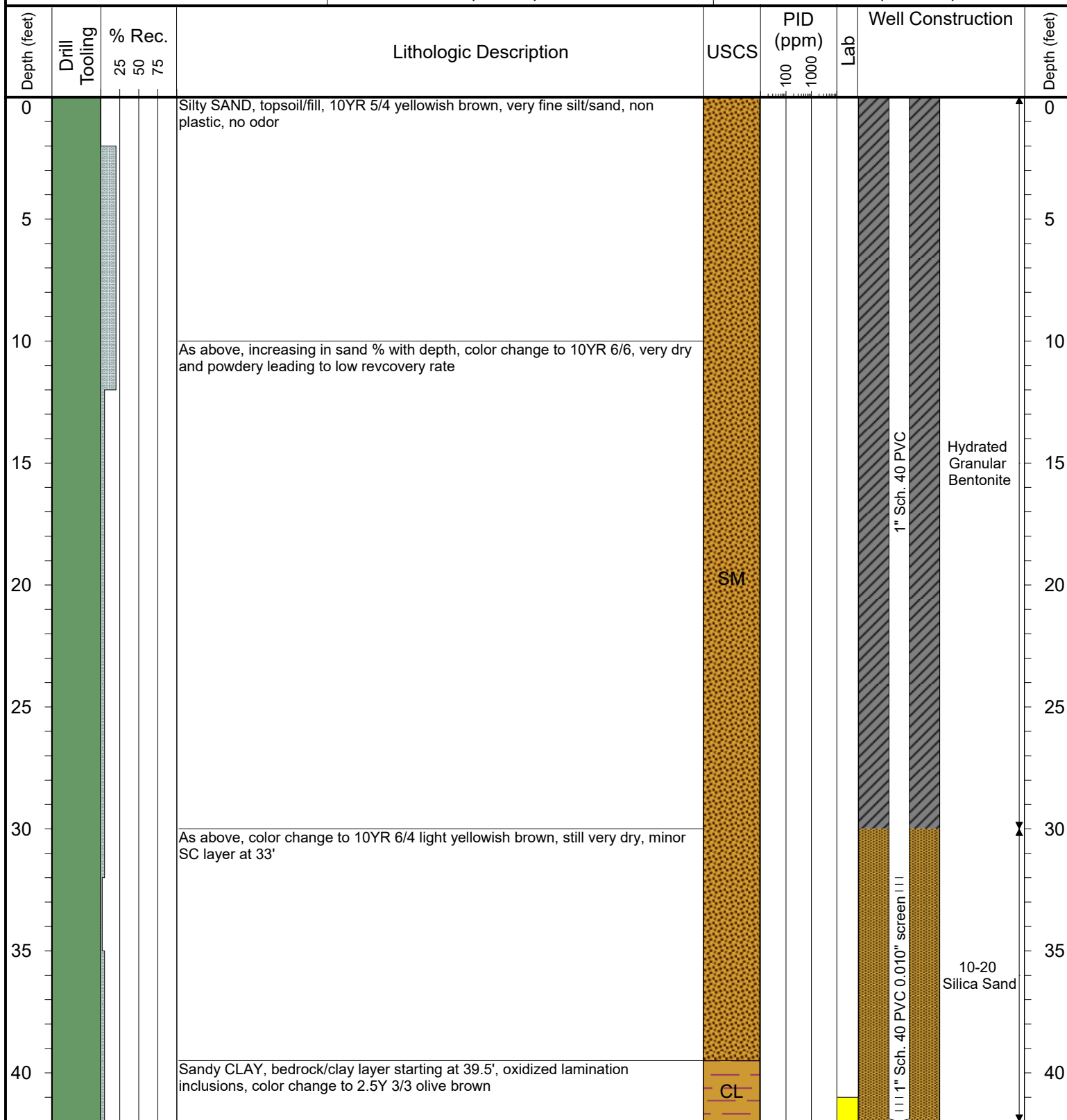
LOCATION: Weld County, CO

LATITUDE (DEGREES): 40.25532373

LONGITUDE (DEGREES): -104.266050411

CASING ELEVATION (FT. AMSL): 4602.53104

GROUND ELEVATION (FT. AMSL): 4602.60104



Drilling / Sample Method:

Geoprobe Direct-Push  
 Hand Auger

Solid Stem Auger  
 Hollow Stem Auger

Laboratory Sample Types:

Geotechnical Lab  
 Analytical Chemistry Lab  
 Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C  
Denver, Colorado 80221

CLIENT: DCP

LOGGED BY: S. Casaleggio

PROJECT MANAGER: Jeb Watts

DRILLING CONTRACTOR: Site Services

DRILLING EQUIPMENT: Geoprobe DP

DRILL BIT SIZE (INCHES): 2.25

DATE STARTED - COMPLETED: 1/24/2022

TOTAL BORING DEPTH (FT. BGS): 33

DEPTH TO WATER (FT. BGS):

Parmlee #1

BORING / WELL ID: MW06

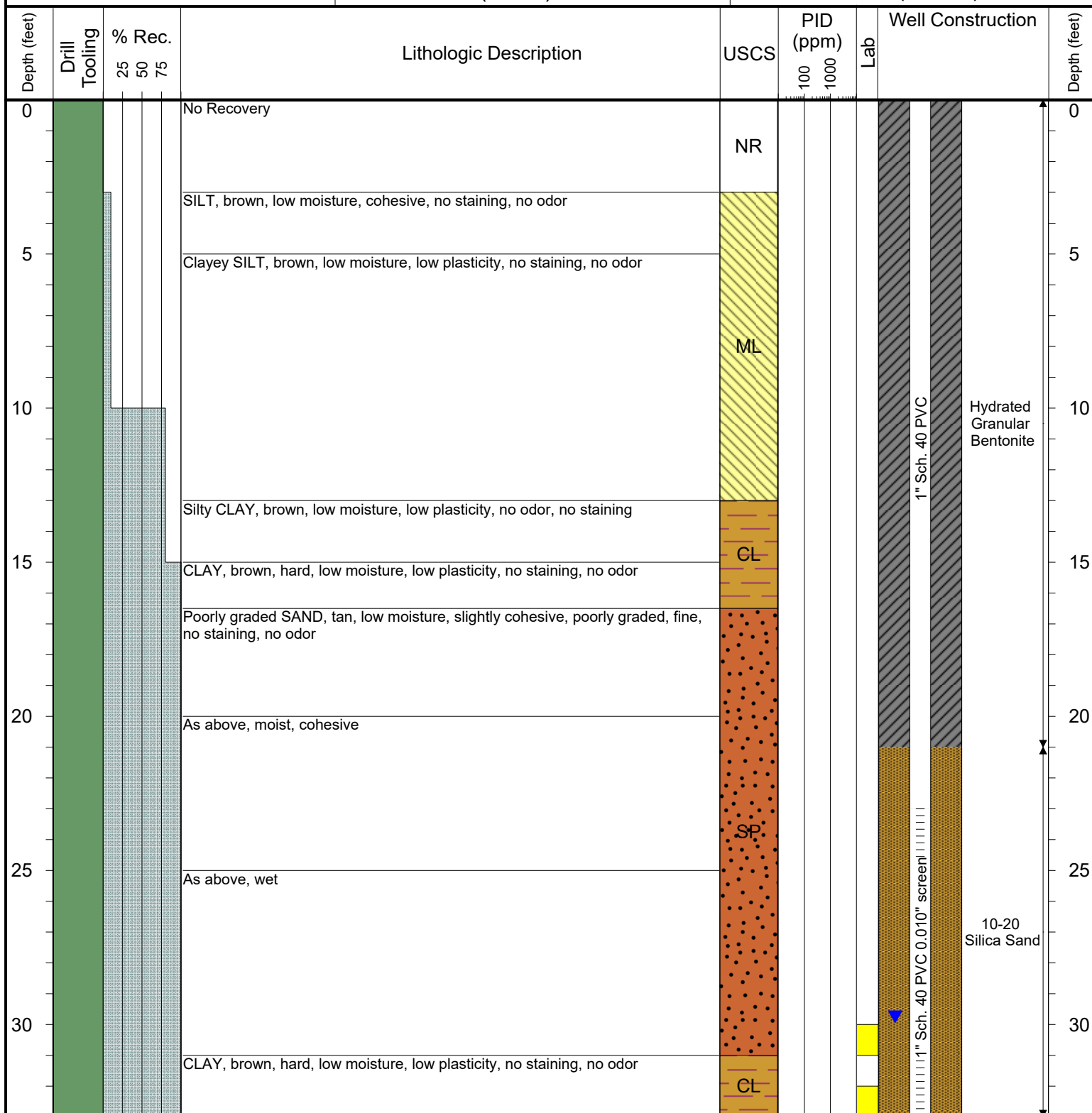
LOCATION: Weld County, CO

LATITUDE (DEGREES): 40.255029253

LONGITUDE (DEGREES): -104.266106292

CASING ELEVATION (FT. AMSL): 4602.26104

GROUND ELEVATION (FT. AMSL): 4602.53104



Drilling / Sample Method:

Geoprobe Direct-Push  
Hand Auger

Laboratory Sample Types:

Solid Stem Auger  
Hollow Stem Auger

Geotechnical Lab  
Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab





6899 Pecos Street, Unit C  
Denver, Colorado 80221

CLIENT: DCP

LOGGED BY: S. Casaleggio

PROJECT MANAGER: Jeb Watts

DRILLING CONTRACTOR: Site Services

DRILLING EQUIPMENT: Geoprobe DP

DRILL BIT SIZE (INCHES): 2.25

DATE STARTED - COMPLETED: 1/5/2022

TOTAL BORING DEPTH (FT. BGS): 30

DEPTH TO WATER (FT. BGS):

Parmlee #1

BORING / WELL ID: MW07

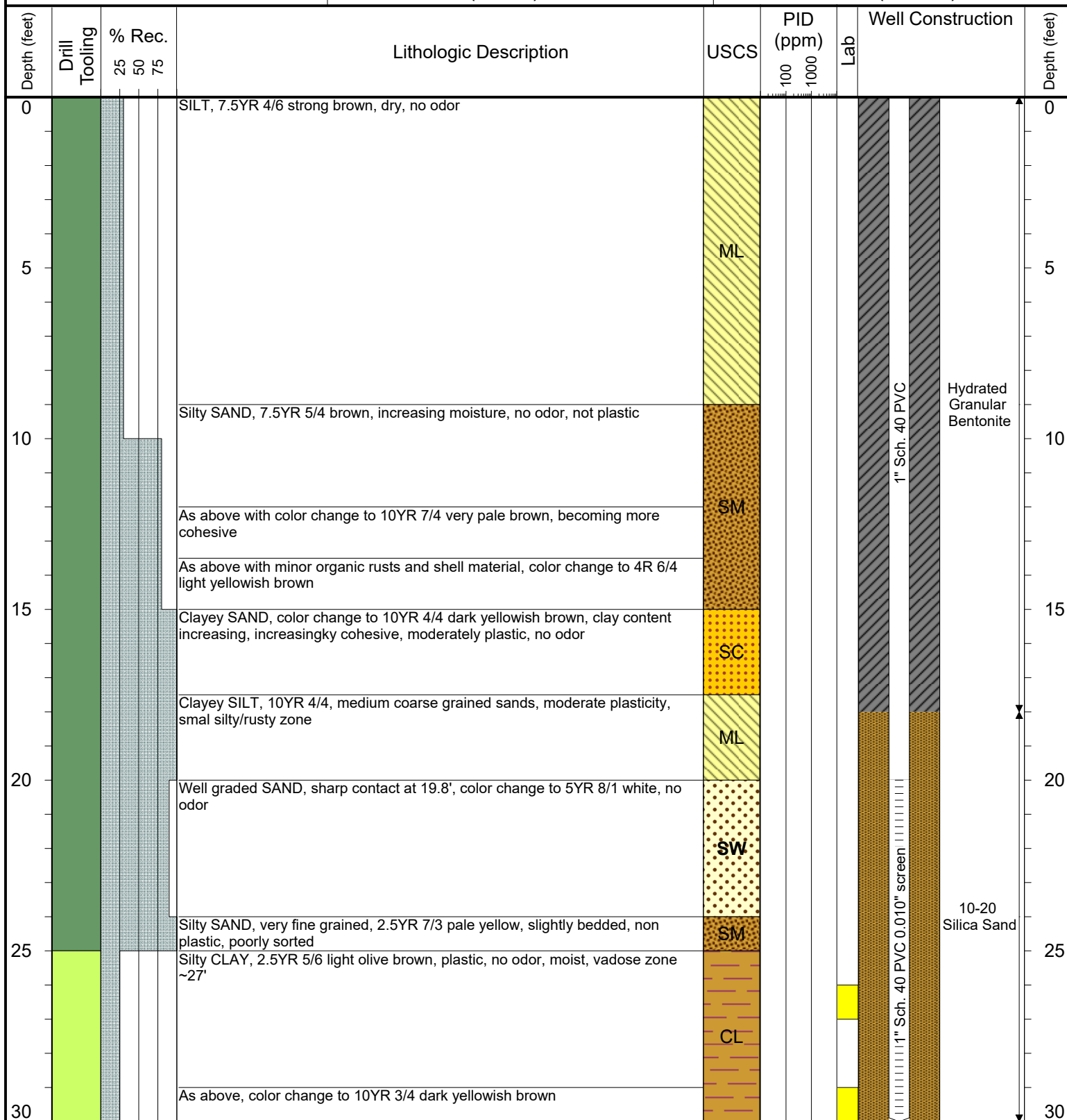
LOCATION: Weld County, CO

LATITUDE (DEGREES): 40.255269343

LONGITUDE (DEGREES): -104.266354245

CASING ELEVATION (FT. AMSL): 4601.20104

GROUND ELEVATION (FT. AMSL): 4601.38104



Drilling / Sample Method:

Geoprobe Direct-Push  
Hand Auger

Solid Stem Auger  
Hollow Stem Auger

Laboratory Sample Types:

Geotechnical Lab  
Analytical Chemistry Lab  
Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C  
Denver, Colorado 80221

CLIENT: DCP

LOGGED BY: S. Casaleggio

PROJECT MANAGER: Jeb Watts

DRILLING CONTRACTOR: Site Services

DRILLING EQUIPMENT: Geoprobe DP

DRILL BIT SIZE (INCHES): 2.25

DATE STARTED - COMPLETED: 1/21/2022

TOTAL BORING DEPTH (FT. BGS): 32.5

DEPTH TO WATER (FT. BGS):

**Parmlee #1**

BORING / WELL ID: MW08

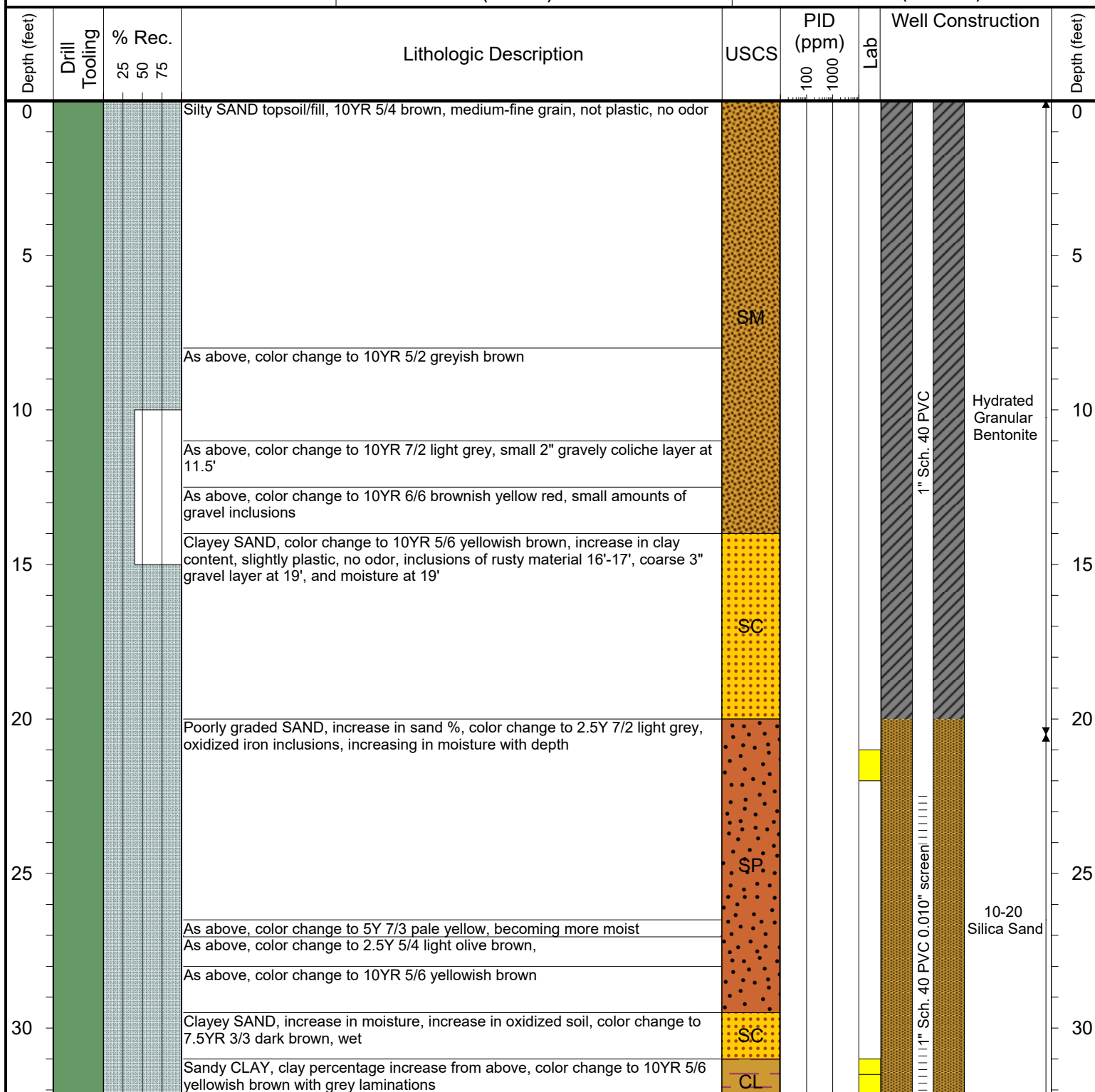
LOCATION: Weld County, CO

LATITUDE (DEGREES): 40.255640757

LONGITUDE (DEGREES): -104.266028263

CASING ELEVATION (FT. AMSL): 4603.75104

GROUND ELEVATION (FT. AMSL): 4604.02104



**Drilling / Sample Method:**

Geoprobe Direct-Push  
 Hand Auger

Solid Stem Auger  
 Hollow Stem Auger

**Laboratory Sample Types:**

Geotechnical Lab  
 Analytical Chemistry Lab  
 Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C  
Denver, Colorado 80221

CLIENT: DCP

LOGGED BY: S. Casaleggio

PROJECT MANAGER: Jeb Watts

DRILLING CONTRACTOR: Site Services

DRILLING EQUIPMENT: Geoprobe DP

DRILL BIT SIZE (INCHES): 2.25

DATE STARTED - COMPLETED: 1/21/2022

TOTAL BORING DEPTH (FT. BGS): 32.25

DEPTH TO WATER (FT. BGS):

Parmlee #1

BORING / WELL ID: MW09

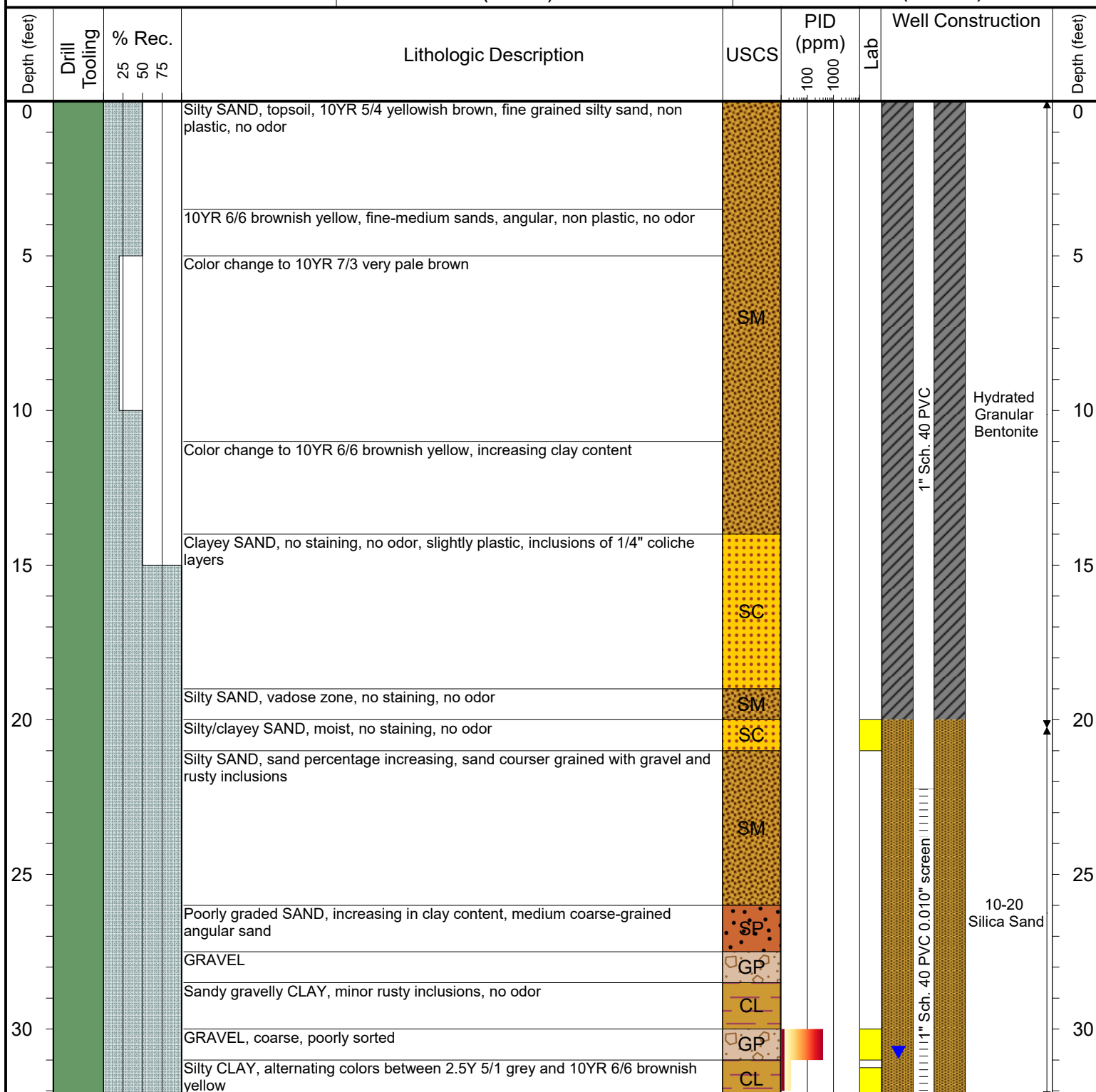
LOCATION: Weld County, CO

LATITUDE (DEGREES): 40.255649943

LONGITUDE (DEGREES): -104.266462917

CASING ELEVATION (FT. AMSL): 4599.92104

GROUND ELEVATION (FT. AMSL): 4600.09104



Drilling / Sample Method:

Geoprobe Direct-Push  
Hand Auger

Solid Stem Auger  
Hollow Stem Auger

Laboratory Sample Types:

Geotechnical Lab  
Analytical Chemistry Lab  
Geotechnical & Analytical Chemistry Lab