

SITE ASSESSMENT REPORT
THOMPSON D28-10 TANK BATTERY

ECMC SPILL TRACKING # 483966
ECMC REMEDIATION # 25228

Prepared for:



2115 117th Avenue
Greeley, CO 80631

Prepared by:



6855 W. 119th Ave
Broomfield, CO 80020

November 3, 2023

Mr. Dan Peterson
Environmental Specialist,
Chevron Rockies Business Unit
Noble Energy Inc.
2115 117th Avenue
Greeley, CO 80631

Re: Site Assessment Report
Thompson D28-10 Tank Battery
Spill/Release Point ID: 483966
Remediation #: 25228
NWNE S28 T4N R64W
Weld County, Colorado

Dear Mr. Peterson:

Below please find a copy of the above referenced Site Assessment Report (Report) for the Thompson D28-10 Tank Battery (Site) located in Weld County, Colorado. The text below describes the tank battery decommissioning, assessment, and associated soil and groundwater sampling conducted by Tasman, Inc. (Tasman), on behalf of Noble Energy, Inc. (Noble) between February 27, 2023 and June 19, 2023.

Introduction

This document describes the results of soil and groundwater sampling activities conducted at the Site to evaluate subsurface impacts. The activities described below were performed in response to the discovery of impacted material beneath the produced water vault (PBV) during decommissioning activities conducted at the Site.

Site Background

The Site is located approximately 7.4 miles south of Kersey in Weld County, Colorado. The Site legal description is the Northwest quarter of the northeast quarter of Section 28, Township 4 North, Range 64 West, 6th Principal Meridian. The Site is on terrain that slopes gradually to the west at latitude 40.280708° and longitude -104.559630° [North American Datum of 1983(NAD83)] and is located approximately 0.43 miles northeast of the intersection of County Road 53 and County Road 40 (Figure 1).

Tasman was initially retained by Noble on February 27, 2023 to complete soil sampling and documentation during Site decommissioning and abandonment activities at the tank battery. As reported in the initial Form 19, historical impacts were confirmed beneath the PBV on March 9, 2023. The Form 19 was submitted to the Energy and Carbon Management Commission (ECMC) on March 9, 2023. The ECMC subsequently issued Spill/Release Point ID Number 483966 for this event. The ECMC assigned Remediation Number 25228 for the project.

Site Decommissioning Activities

On February 27, 2023 and March 2, 2023, Tasman completed decommissioning soil sampling and documentation for the Thompson D28-10 Tank Battery. Soil samples were collected throughout the Site targeting the following different areas and pieces of production equipment:

| Area of Site | Sampling | Sample description |
|----------------------|--|---|
| Separator | SEP01-DL@4' SEP01-FL@3.5' | One sample collected separator dumpline and flowline riser. |
| Crude Oil ASTs | AST01@0.5' | One sample collected beneath the crude oil AST |
| Flare | Flare01@0.5' | One samples collected beneath the flares |
| Meter House | MH01@0.5' MH02@0.5' | One sample collected beneath each meter house |
| Produced Water Vault | SS01@2.5' through SS04@2.5', FS01@5.5' | Four excavation sidewall samples collected at the sidewall from the vault excavation and one base samples at the center of the excavation |

Eight of the 11 soil samples were submitted to Summit Scientific (Summit) in Golden, Colorado for laboratory analysis. The samples were submitted for laboratory analysis of the ECMC Table 915-1 list of organic compounds in soil using United States Environmental Protection Agency (USEPA) Method 8260B and USEPA Method 8270D, total petroleum hydrocarbons (TPH) using USEPA Methods 8260B and 8015D, pH, electrical conductivity (EC), sodium absorption ratio (SAR) using USEPA saturated paste extraction method, and boron using the hot water-soluble soil extract method. Soil sample FS01@5.5' was also submitted to Summit for laboratory analysis of ECMC Table 915-1 metals in soil using USEPA Method 6020B. Groundwater was not encountered during decommissioning activities at the Site. Decommissioning soil analytical results are summarized on Table 1, illustrated on Figure 2, and the laboratory analytical report is included in Attachment A.

Site Assessment Activities

On June 2, 2023, Tasman completed site assessment activities to delineate subsurface soil impacts identified during Site decommissioning. Tasman advanced six borings to 19 feet below ground surface (ft bgs), using a Geoprobe via direct push drilling techniques. A hydro-excavator was used to pre-clear each soil boring location to a depth of 6-ft bgs prior to mechanically drilling with the Geoprobe. During

soil boring operations, soil samples were collected and field screened for VOCs using a PID and standard headspace sampling techniques. The following soil samples were collected at depths corresponding to initial observed impacts, and the terminal depth of the borings:

| | | | | |
|-------------|-------------|-------------|-------------|-------------|
| BH01@0.5' | BH02@0.5' | BH03@0.5' | BH04@0.5' | BH05@0.5' |
| BH01@6' | BH02@6' | BH03@6' | BH04@6' | BH05@6' |
| BH01@18-19' | BH02@18-19' | BH03@18-19' | BH04@18-19' | BH05@18-19' |

BH06@0.5'

All ten soil samples collected from the 6 ft bgs and 18-19 ft bgs soil horizons were submitted to Summit Scientific (Summit) in Golden, Colorado for laboratory analysis of the ECMC Table 915-1 list of organic compounds in soil using USEPA Methods 8260B and 8270D, TPH using USEPA Methods 8260B and 8015D, ECMC Table 915-1 metals in soil using USEPA Method 6020B, pH, EC, SAR using USEPA saturated paste extraction method, and boron using the hot water-soluble soil extract method. All six of the soil samples collected from the 0.5 ft bgs soil horizon were submitted to Summit for analysis of pH using USEPA saturated paste extraction method. Site assessment soil sample analytical results are summarized in Table 1 and illustrated on Figure 3. Laboratory analytical reports are included in Attachment A and the boring logs are included in Attachment B.

During soil boring activities groundwater was encountered at approximately 10 ft bgs in the borings. Soil borings BH01 through BH06 were converted to temporary groundwater monitoring wells, and set to depths of 19 ft bgs with 15 ft of 0.010-inch slotted screen interval. Tasman returned to the Site on June 5, 2023, and each temporary monitoring well was developed by purging a minimum of five well volumes of water and allowing the wells to stabilize for at least one week prior to sampling. On June 19, 2023, Tasman collected groundwater samples from the six temporary groundwater monitoring wells to evaluate dissolved phase petroleum hydrocarbon groundwater impacts. Groundwater samples were submitted to Summit for laboratory analysis of organic compounds benzene, toluene, ethylbenzene, total xylenes, naphthalene, 1,2,4-trimethylbenzene (1,2,4-TMB), and 1,3,5-trimethylbenzene (1,3,5-TMB) using USEPA Method 8260B, as well as 2-methylnaphthalene using EPA Method 8270D SIM. Groundwater samples were also analyzed for inorganic parameters total dissolved solids (TDS) using Method SM2540C, as well as chloride and sulfate ion using USEPA Method 300.0. During groundwater sampling activities, groundwater levels were recorded using an interface probe and subsequently converted to elevations which are presented in Table 2. The groundwater potentiometric surface contour map is illustrated on Figure 4. Groundwater analytical results are summarized in Table 3, illustrated on Figure 5, and the laboratory analytical reports are included in Attachment C.

Results

Laboratory analytical results for one of the eight decommissioning soil samples indicate hydrocarbon concentrations above ECMC Table 915-1 Protection of Groundwater Soil Screening Levels (GSSLs) but below ECMC Table 915-1 Residential Soil Screening Levels (RSSLs). Hydrocarbon compounds detected above ECMC Table 915-1 GSSLs included a combination of 1,2,4-TMB, 1,3,5-TMB, and 2-

M. All ten soil samples collected during site assessment activities are in compliance with ECMC Table 915-1 GSSLs for hydrocarbon compounds.

Laboratory analytical results indicate pH was above ECMC Table 915-1 Soil Suitability for Reclamation (SSR) standards in one decommissioning soil sample (AST01@0.5'). All other samples collected during decommissioning and site assessment activities were in compliance with ECMC Table 915-1 SSR standards for pH, SAR, EC, and boron.

Arsenic was detected above applicable ECMC standards in 11 soil samples submitted for laboratory analysis. To determine if arsenic should be considered a contaminant of concern, a total of ten background samples were collected from five discrete locations and analyzed for arsenic. The average background concentration with a 1.25 multiplier applied was calculated to be 2.16 mg/kg whereas the average site assessment and decommissioning sample concentration for arsenic was calculated to be 2.03 mg/kg. Since the arsenic was observed in background soil samples at greater concentrations than in the site assessment and decommissioning soil samples, arsenic should not be considered a contaminant of concern at the site.

Groundwater laboratory analytical results for temporary monitoring wells BH01 through BH06 indicate that all hydrocarbon compounds were below laboratory detection limits. Monitoring well BH02 was selected as the background location for inorganic levels due to its cross and up-gradient location (Figure 4). When compared to the concentrations of inorganic compounds in groundwater at BH02, all groundwater samples collected are in compliance with ECMC Table 915-1 Groundwater Inorganic Parameters (GIP) standards.

Conclusions

Soil hydrocarbon impacts observed during decommissioning in area of the PBV have been successfully delineated vertically and laterally by site assessment soil borings BH01 through BH06. Since the arsenic was observed in background soil samples at greater concentrations than in the site assessment and decommissioning soil samples, arsenic should not be considered a contaminant of concern at the site. Since the pH exceedance identified at AST01@0.5' has been fully delineated by site assessment soil borings, the pH appears to be limited to a singular point source area that will be removed during reclamation.

Since the hydrocarbon compounds detected in soil samples during decommissioning and site assessment activities are above ECMC Table 915-1 GSSLs but below ECMC Table 915-1 RSSLs, groundwater monitoring will be conducted until four consecutive quarters of compliant results are achieved. Following the receipt of four consecutive quarters of compliant results, Noble will request a No Further Action (NFA) designation for the site.

Remarks

The discussion and conclusions contained in this report represent the professional opinions of Tasman, Inc. These opinions are based on currently available information and are arrived at in accordance with currently accepted geologic and engineering practices.

Please contact me at (720) 616-8383 or at jwhritenour@tasman-geo.com if you require additional information.

Sincerely,
Tasman, Inc.



Jake Whritenour, Program Manager

Attachments:

Table 1 – Soil Analytical Data

Table 2 – Groundwater Elevation Data

Table 3 – Groundwater Analytical Data

Figure 1 – Site Location Map

Figure 2 – Decommissioning & Soil Analytical Results Map (02/27/2023 & 03/02/2023)

Figure 3 – Site Assessment Soil Analytical Results Map (06/02/2023)

Figure 4 – Groundwater Potentiometric Surface Map (06/19/2023)

Figure 5 – Groundwater Analytical Results Map (06/19/2023)

Attachment A – Laboratory Soil Analytical Data Reports

Attachment B – Boring Logs

Attachment C – Laboratory Groundwater Analytical Data Reports

TABLES

TABLE 1
SOIL ANALYTICAL DATA
NOBLE ENERGY, INC. - THOMPSON 28-10 FACILITY

| Soil Sample ID | Date | ⁴ Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Total Xylenes (mg/kg) | 1,2,4 - TMB (mg/kg) | 1,3,5 - TMB (mg/kg) | Naphthalene (mg/kg) | TPH-GRO (mg/kg) | TPH-DRO (mg/kg) | TPH-ORO (mg/kg) | Acenaphthene (mg/kg) | Anthracene (mg/kg) | Benz(a) (mg/kg) | Benzo(a) (mg/kg) | Benzo(b) (mg/kg) | Benzo(k) (mg/kg) | Chrysene (mg/kg) | A,H (mg/kg) | Fluoranthene (mg/kg) | Fluorene (mg/kg) | 1,2,3-CD (mg/kg) | Pyrene (mg/kg) | 1-M (mg/kg) | 2-M (mg/kg) |
|--|----------|------------------------------|-----------------|----------------------|-----------------------|---------------------|---------------------|---------------------|-----------------|-----------------|-----------------|----------------------|--------------------|-----------------|------------------|------------------|------------------|------------------|-------------|----------------------|------------------|------------------|----------------|-------------|-------------|
| Residential SSL ² | | 1.2 | 490 | 5.8 | 58 | 30 | 27 | 2 | 500 | | | 360 | 1,800 | 1.1 | 0.11 | 1.1 | 11 | 110 | 0.11 | 240 | 240 | 1.1 | 180 | 18 | 24 |
| Protection of Groundwater SSL ^{2,3} | | 0.0026 | 0.69 | 0.78 | 9.9 | 0.0081 | 0.0087 | 0.0038 | 500 | | | 0.55 | 6 | 0.011 | 0.24 | 0.3 | 2.9 | 9 | 0.096 | 8.9 | 0.54 | 0.98 | 1.3 | 0.006 | 0.019 |
| SEP01-FL@3.5' | 02/27/23 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <0.50 | <50 | <50 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SEP01-DL@4' | 02/27/23 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <0.50 | <50 | <50 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| AST01@0.5' | 02/27/23 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <0.50 | <50 | <50 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS01@2.5' | 03/02/23 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <0.50 | <50 | <50 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS02@2.5' | 03/02/23 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <0.50 | <50 | <50 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS03@2.5' | 03/02/23 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <0.50 | <50 | <50 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SS04@2.5' | 03/02/23 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <0.50 | <50 | <50 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| FS01@5.5' | 03/02/23 | <0.0020 | <0.0050 | <0.0050 | <0.010 | 0.067 | 0.035 | <0.0038 | 1.9 | <50 | <50 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | 0.00510 | 0.0192 | |
| BH01@6' | 06/02/23 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <0.50 | <50 | <50 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| BH01@18-19' | 06/02/23 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <0.50 | <50 | <50 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| BH02@6' | 06/02/23 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <0.50 | <50 | <50 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| BH02@18-19' | 06/02/23 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <0.50 | <50 | <50 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| BH03@6' | 06/02/23 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <0.50 | <50 | <50 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| BH03@18-19' | 06/02/23 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <0.50 | <50 | <50 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| BH04@6' | 06/02/23 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <0.50 | <50 | <50 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| BH04@18-19' | 06/02/23 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <0.50 | <50 | <50 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| BH05@6' | 06/02/23 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <0.50 | <50 | <50 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| BH05@18-19' | 06/02/23 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <0.50 | <50 | <50 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |

| Soil Sample ID | Date | pH | SAR | EC (mmhos/cm) | Boron (mg/L) |
|------------------------------|----------|---------|--------|---------------|--------------|
| Residential SSL ² | | 6 - 8.3 | <6 | <4mmhos/cm | 2 |
| SEP01-FL@3.5' | 02/27/23 | 7.91 | 0.107 | 0.245 | 0.110 |
| SEP01-DL@4' | 02/27/23 | 7.23 | 0.274 | 0.215 | 0.0870 |
| AST01@0.5' | 02/27/23 | 4.89 | 0.0363 | 0.0665 | 0.0316 |
| SS01@2.5' | 03/02/23 | 7.90 | 0.0205 | 0.100 | 0.0922 |
| SS02@2.5' | 03/02/23 | 7.93 | 0.0658 | 0.211 | 0.141 |
| SS03@2.5' | 03/02/23 | 7.65 | 0.130 | 0.144 | 0.118 |
| SS04@2.5' | 03/02/23 | 7.64 | 0.0190 | 0.0856 | 0.0942 |
| FS01@5.5' | 03/02/23 | 7.85 | 0.295 | 0.262 | 0.128 |
| BH01@0.5' | 06/02/23 | 8.29 | NA | NA | NA |
| BH01@6' | 06/02/23 | 7.52 | 0.356 | 0.526 | 0.0486 |
| BH01@18-19' | 06/02/23 | 8.24 | 1.67 | 0.301 | 0.258 |
| BH02@0.5' | 06/02/23 | 7.94 | NA | NA | NA |
| BH02@6' | 06/02/23 | 7.42 | 0.0660 | 0.203 | 0.0798 |
| BH02@18-19' | 06/02/23 | 7.89 | 2.73 | 0.438 | 0.140 |
| BH03@0.5' | 06/02/23 | 8.03 | NA | NA | NA |
| BH03@6' | 06/02/23 | 7.72 | 1.36 | 0.352 | 0.0648 |
| BH03@18-19' | 06/02/23 | 7.85 | 1.99 | 0.356 | 0.317 |
| BH04@0.5' | 06/02/23 | 7.93 | NA | NA | NA |
| BH04@6' | 06/02/23 | 7.12 | 0.145 | 0.315 | 0.0555 |
| BH04@18-19' | 06/02/23 | 7.92 | 2.15 | 0.406 | 0.171 |
| BH05@0.5' | 06/02/23 | 7.83 | NA | NA | NA |
| BH05@6' | 06/02/23 | 7.71 | 1.57 | 0.495 | 0.0788 |
| BH05@18-19' | 06/02/23 | 8.04 | 2.44 | 0.305 | 0.206 |
| BH06@0.5' | 06/02/23 | 7.61 | NA | NA | NA |
| BG01@0.5' | 06/02/23 | 6.41 | NA | NA | NA |
| BG01@6' | 06/02/23 | 7.80 | NA | NA | NA |
| BG01@18-19' | 06/02/23 | 8.13 | NA | NA | NA |
| BG02@0.5' | 06/02/23 | 8.10 | NA | NA | NA |
| BG02@6' | 06/02/23 | 7.85 | NA | NA | NA |
| BG02@18-19' | 06/02/23 | 8.20 | NA | NA | NA |
| BG03@0.5' | 06/02/23 | 8.14 | NA | NA | NA |
| BG03@6' | 06/02/23 | 8.22 | NA | NA | NA |
| BG03@18-19' | 06/02/23 | 8.19 | NA | NA | NA |
| BG04@0.5' | 06/02/23 | 7.92 | NA | NA | NA |
| BG04@6' | 06/02/23 | 8.27 | NA | NA | NA |
| BG04@18-19' | 06/02/23 | 8.26 | NA | NA | NA |
| BG05@0.5' | 06/02/23 | 6.32 | NA | NA | NA |
| BG05@6' | 06/02/23 | 8.28 | NA | NA | NA |
| BG05@18-19' | 06/02/23 | 8.22 | NA | NA | NA |

| Soil Sample ID | Date | Arsenic (mg/kg) | Barium (mg/kg) | Cadmium (mg/kg) | Chromium (VI) (mg/kg) | Copper (mg/kg) | Lead (mg/kg) | Nickel (mg/kg) | Selenium (mg/kg) | Silver (mg/kg) | Zinc (mg/kg) |
|--|----------|-----------------|----------------|-----------------|-----------------------|----------------|--------------|----------------|------------------|----------------|--------------|
| Residential SSL ² | | 0.68 | 15,000 | 71 | 0.3 | 3,100 | 400 | 1,500 | 390 | 390 | 23,000 |
| Protection of Groundwater SSL ^{2,3} | | 0.29 | 82 | 0.38 | 0.00067 | 46 | 14 | 26 | 0.26 | 0.8 | 370 |
| FS01@5.5' | 03/02/23 | 1.54 | 34.2 | <0.213 | <0.30 | 2.92 | 3.02 | 2.39 | <0.260 | <0.0213 | 9.50 |
| BH01@6' | 06/02/23 | 1.44 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| BH01@18-19' | 06/02/23 | 2.59 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| BH02@6' | 06/02/23 | 1.25 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| BH02@18-19' | 06/02/23 | 1.61 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| BH03@6' | 06/02/23 | 2.01 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| BH03@18-19' | 06/02/23 | 3.57 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| BH04@6' | 06/02/23 | 1.48 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| BH04@18-19' | 06/02/23 | 3.54 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| BH05@6' | 06/02/23 | 0.995 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| BH05@18-19' | 06/02/23 | 2.31 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| BG01@6' | 06/02/23 | 1.61 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| BG01@18-19' | 06/02/23 | 4.00 | NA | NA | NA | NA | | | | | |

TABLE 2
GROUNDWATER ELEVATION DATA
NOBLE ENERGY, INC. - THOMPSON 28-10 FACILITY

| Monitoring Well ID | Date | Top of Casing Elevation (ft. AMSL) | Total Depth (ft. BTOC) | Depth to Water (ft.) ⁽¹⁾ | Depth to LNAPL (ft.) ⁽¹⁾ | LNAPL Thickness (ft.) | Groundwater Elevation* (ft. AMSL) |
|--------------------|----------|------------------------------------|------------------------|-------------------------------------|-------------------------------------|-----------------------|-----------------------------------|
| BH01 | 06/19/23 | 4741.45 | 19.21 | 9.30 | ND | ND | 4732.28 |
| BH02 | 06/19/23 | 4742.57 | 18.92 | 9.97 | ND | ND | 4732.86 |
| BH03 | 06/19/23 | 4740.56 | 18.83 | 8.76 | ND | ND | 4731.97 |
| BH04 | 06/19/23 | 4740.18 | 18.66 | 8.52 | ND | ND | 4731.82 |
| BH05 | 06/19/23 | 4741.49 | 19.22 | 9.02 | ND | ND | 4732.63 |
| BH06 | 06/19/23 | 4740.28 | 18.33 | 8.36 | ND | ND | 4732.15 |

Notes:

⁽¹⁾ Depth to water measurements were collected from top of casing and adjusted using survey data to reflect depth of water from ground surface.

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

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

LNAPL relative density was estimated to be 0.75

Definitions:

- ft. = Feet
- AMSL = Above mean sea level
- BTOC = Below top of casing
- BGS = Below ground surface
- LNAPL = Light non-aqueous phase liquid
- ND = No LNAPL detected

**TABLE 3
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - THOMPSON 28-10 FACILITY**

| Monitoring Well ID | Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | Naphthalene (µg/L) | 1,2,4-TMB (µg/L) | 1,3,5-TMB (µg/L) | 1-M (µg/L) | 2-M (µg/L) | TDS (mg/L) | Chloride Ion (mg/L) | Sulfate Ion (mg/L) |
|----------------------|----------|----------------|----------------|---------------------|----------------------|--------------------|------------------|------------------|--------------------------|--------------------------|------------------------------|-------------------------------------|-------------------------------------|
| ECMC Standard | | 5 | 560 | 700 | 1,400 | 140 | 67 | 67 | 1.1⁽²⁾ | 3.6⁽²⁾ | <1.25 x Background | 250 or <1.25 x Background | 250 or <1.25 x Background |
| BH01 | 06/19/23 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | NA | <0.500 | 993 | 246 | 266 |
| ⁽³⁾ BH02 | 06/19/23 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | NA | <0.500 | 1,020 | 289 | 270 |
| BH03 | 06/19/23 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | NA | <0.500 | 855 | 204 | 241 |
| BH04 | 06/19/23 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | NA | <0.500 | 804 | 210 | 236 |
| BH05 | 06/19/23 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | NA | <0.500 | 991 | 291 | 270 |
| BH06 | 06/19/23 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | NA | <0.500 | 1,020 | 280 | 299 |

Notes:

⁽¹⁾ Groundwater standards referenced from 2 CCR 404-1, Table 915-1 (January 15, 2021).

⁽²⁾ Groundwater standards referenced from USEPA Regional Screening Level (RSL) Resident Tapwater Table (TR=1E-06, HQ=0.1) November 2022.

⁽³⁾ Monitoring well used for inorganic background levels.

Definitions:

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

ECMC = Energy and Carbon Management Commission

mg/L = Milligrams per liter

NA = Not analyzed

µg/L = Micrograms per liter

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

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

Benz(a) = Benzanthracene

1-M = 1-Methylnaphthalene

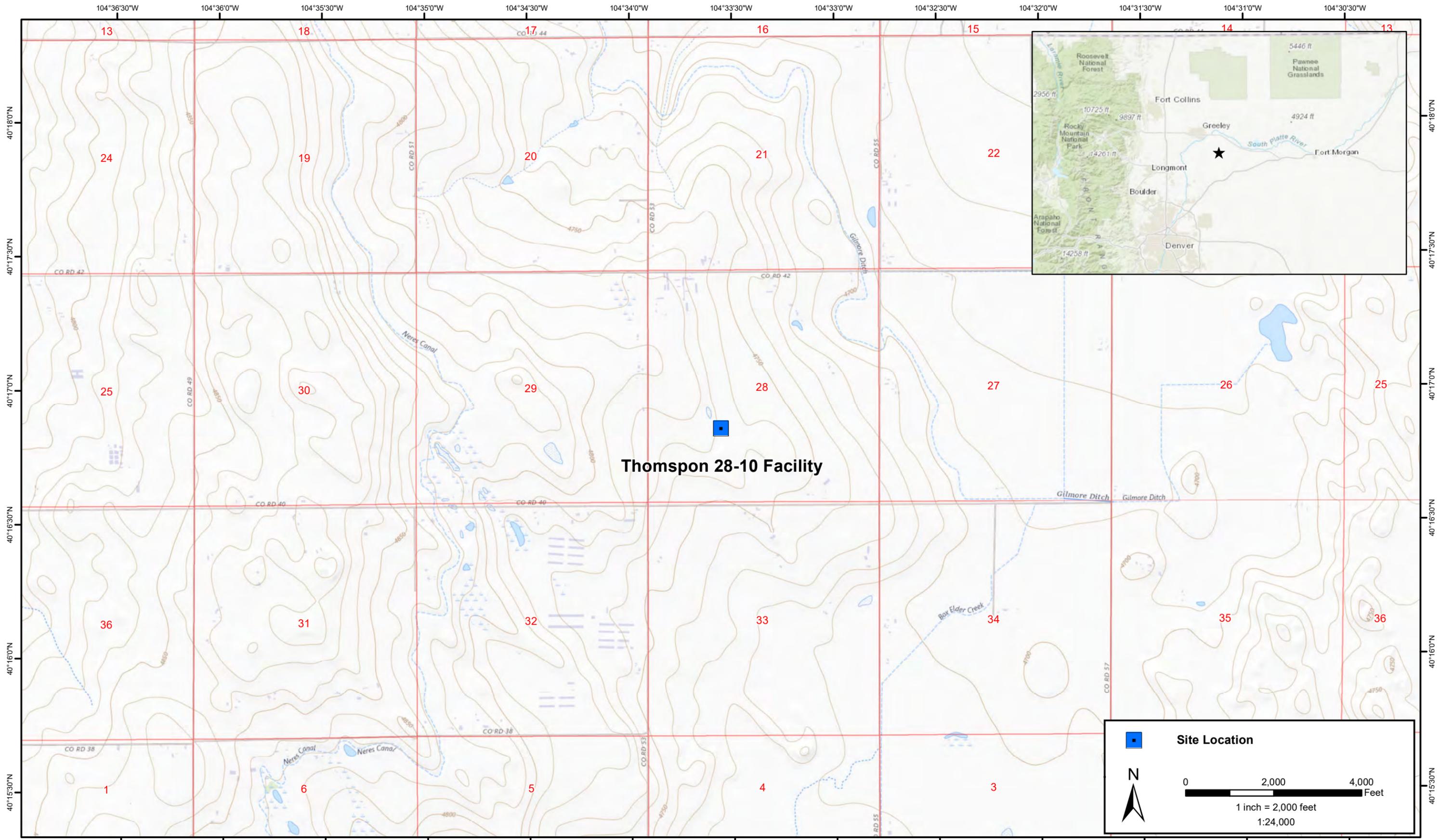
2-M = 2-Methylnaphthalene

TDS = Total Dissolved Solids

Highlighted results are equal to or exceed the ECMC Table 915-1 standard

Bold results exceed the ECMC Table 915-1 standard for groundwater inorganic parameters, site-specific background assessment is on-going for groundwater inorganic constituents.

FIGURES



| | |
|--------------|------------|
| DATE: | March 2023 |
| DESIGNED BY: | S. Vogt |
| DRAWN BY: | L. Reed |



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

Noble Energy, Inc - DJ Basin
Thomson 28-10 Facility
 NESW Sec 28 T4N-R64W
 Weld County, Colorado

Site Location Map

Figure
1



DATE: 03/09/2023

DESIGNED BY: JW

DRAWN BY: HM



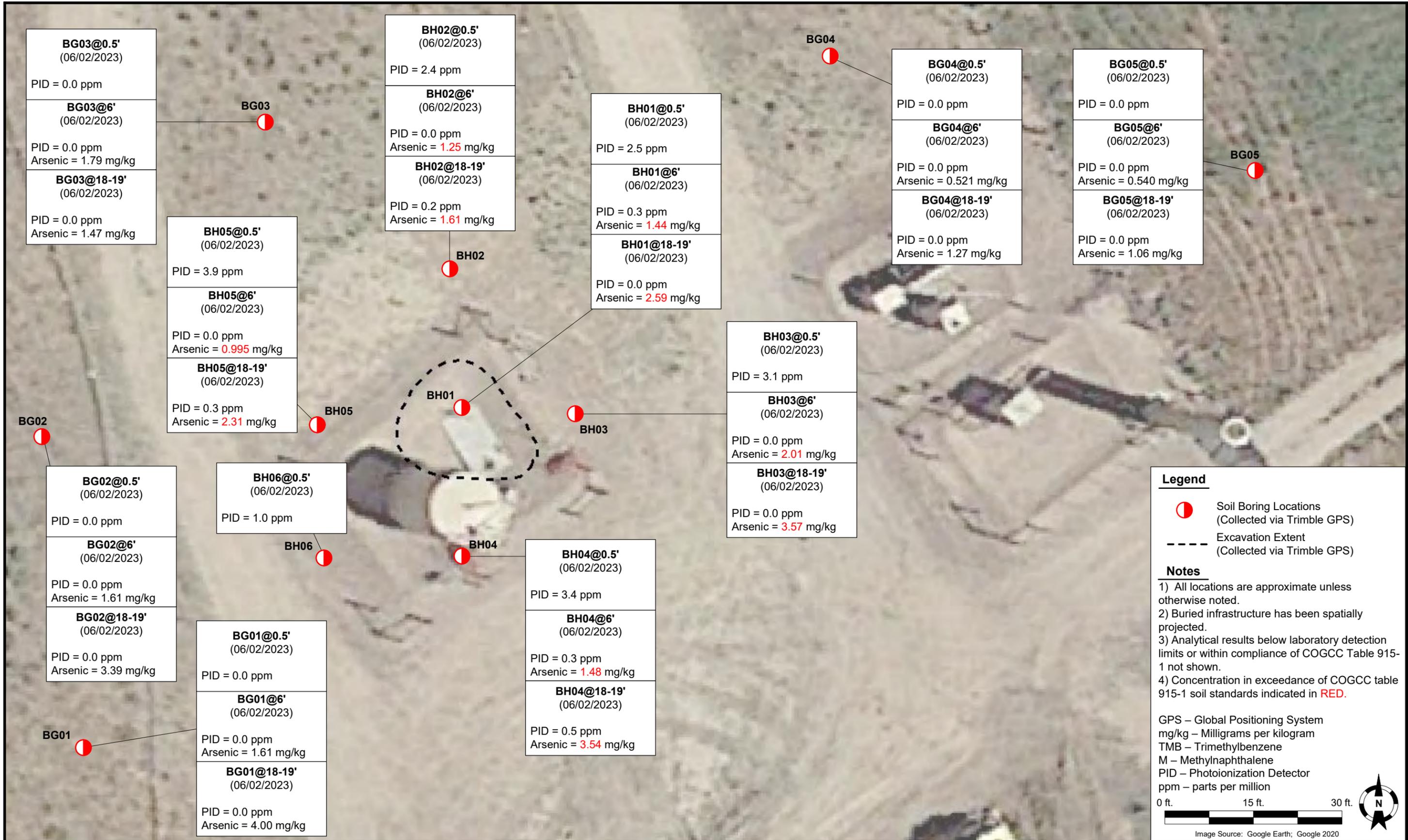
TASMAN
GEOSCIENCES

Tasman Geosciences, Inc.
6855 W 119th Avenue
Broomfield, CO 80020

Noble Energy, Inc. – DJ Basin
Thompson 28-10 FAC
 NESW, Section 28, Township 4 North, Range 64 West
 Weld County, Colorado

Decommissioning Soil
 Analytical Results Map
 (02/27/2023 & 03/02/2023)

FIGURE
2



| | |
|--------------|------------|
| DATE: | 11/03/2023 |
| DESIGNED BY: | JW |
| DRAWN BY: | AE |



TASMAN
GEOSCIENCES

Tasman Geosciences, Inc.
6855 W 119th Avenue
Broomfield, CO 80020

Noble Energy, Inc. – DJ Basin
Thompson 28-10 FAC
 NESW, Section 28, Township 4 North, Range 64 West
 Weld County, Colorado

Site Assessment Soil
 Analytical Results Map
 (06/02/2023)

Figure
3



Legend

-  Monitoring Well Location (Collected via Trimble GPS)
-  Excavation Extent (Collected via Trimble GPS)
-  Groundwater Elevation Contour (Dashed where Inferred)
- 4717.44** Measured Groundwater Elevation – (ft. amsl)
-  Approximate Groundwater Flow Direction

Notes

- 1) All locations are approximate unless otherwise noted.
- 2) Buried infrastructure has been spatially projected.

GPS – Global Positioning System
Ft. amsl – Feet above mean sea level

0 ft. 15 ft. 30 ft. 

Image Source: Google Earth; Google 2020

| | |
|--------------|-----------|
| DATE: | 6/21/2023 |
| DESIGNED BY: | JW |
| DRAWN BY: | LR |



Tasman Geosciences, Inc.
6855 W 119th Avenue
Broomfield, CO 80020

Noble Energy, Inc. – DJ Basin
Thompson 28-10 FAC
NESW, Section 28, Township 4 North, Range 64 West
Weld County, Colorado

Groundwater Potentiometric
Surface Contour Map
(06/19/2023)

FIGURE
4

| BH02 | |
|----------------------|----------|
| Compound | 06/19/23 |
| Benzene (ug/L) | <1.0 |
| Toluene (ug/L) | <1.0 |
| Ethylbenzene (ug/L) | <1.0 |
| Total Xylenes (ug/L) | <2.0 |
| Naphthalene (ug/L) | <1.0 |
| 1,2,4-TMB (ug/L) | <1.0 |
| 1,3,5-TMB (ug/L) | <1.0 |
| 2-M (ug/L) | <0.500 |
| TDS (mg/L) | 1,020 |
| Chloride (mg/L) | 289 |
| Sulfate (mg/L) | 270 |

| BH01 | |
|----------------------|----------|
| Compound | 06/19/23 |
| Benzene (ug/L) | <1.0 |
| Toluene (ug/L) | <1.0 |
| Ethylbenzene (ug/L) | <1.0 |
| Total Xylenes (ug/L) | <2.0 |
| Naphthalene (ug/L) | <1.0 |
| 1,2,4-TMB (ug/L) | <1.0 |
| 1,3,5-TMB (ug/L) | <1.0 |
| 2-M (ug/L) | <0.500 |
| TDS (mg/L) | 993 |
| Chloride (mg/L) | 246 |
| Sulfate (mg/L) | 266 |

| BH05 | |
|----------------------|----------|
| Compound | 06/19/23 |
| Benzene (ug/L) | <1.0 |
| Toluene (ug/L) | <1.0 |
| Ethylbenzene (ug/L) | <1.0 |
| Total Xylenes (ug/L) | <2.0 |
| Naphthalene (ug/L) | <1.0 |
| 1,2,4-TMB (ug/L) | <1.0 |
| 1,3,5-TMB (ug/L) | <1.0 |
| 2-M (ug/L) | <0.500 |
| TDS (mg/L) | 991 |
| Chloride (mg/L) | 291 |
| Sulfate (mg/L) | 270 |

| BH03 | |
|----------------------|----------|
| Compound | 06/19/23 |
| Benzene (ug/L) | <1.0 |
| Toluene (ug/L) | <1.0 |
| Ethylbenzene (ug/L) | <1.0 |
| Total Xylenes (ug/L) | <2.0 |
| Naphthalene (ug/L) | <1.0 |
| 1,2,4-TMB (ug/L) | <1.0 |
| 1,3,5-TMB (ug/L) | <1.0 |
| 2-M (ug/L) | <0.500 |
| TDS (mg/L) | 855 |
| Chloride (mg/L) | 204 |
| Sulfate (mg/L) | 241 |

| BH06 | |
|----------------------|----------|
| Compound | 06/19/23 |
| Benzene (ug/L) | <1.0 |
| Toluene (ug/L) | <1.0 |
| Ethylbenzene (ug/L) | <1.0 |
| Total Xylenes (ug/L) | <2.0 |
| Naphthalene (ug/L) | <1.0 |
| 1,2,4-TMB (ug/L) | <1.0 |
| 1,3,5-TMB (ug/L) | <1.0 |
| 2-M (ug/L) | <0.500 |
| TDS (mg/L) | 1,020 |
| Chloride (mg/L) | 280 |
| Sulfate (mg/L) | 299 |

| BH04 | |
|----------------------|----------|
| Compound | 06/19/23 |
| Benzene (ug/L) | <1.0 |
| Toluene (ug/L) | <1.0 |
| Ethylbenzene (ug/L) | <1.0 |
| Total Xylenes (ug/L) | <2.0 |
| Naphthalene (ug/L) | <1.0 |
| 1,2,4-TMB (ug/L) | <1.0 |
| 1,3,5-TMB (ug/L) | <1.0 |
| 2-M (ug/L) | <0.500 |
| TDS (mg/L) | 804 |
| Chloride (mg/L) | 210 |
| Sulfate (mg/L) | 236 |

Legend

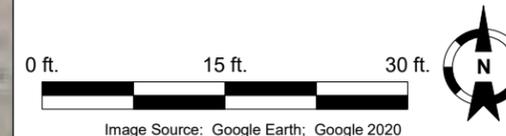
-  Monitoring Well Location (Collected via Trimble GPS)
-  Excavation Extent (Collected via Trimble GPS)

Notes

- 1) All locations are approximate unless otherwise noted.
- 2) Buried infrastructure has been spatially projected.
- 3) Laboratory organic analytical results shown for samples with any concentration above detection limits.
- 4) **RED** value indicates organics concentration > ECMC Table 915-1 groundwater Standard
- 5) Groundwater standards referenced from USEPA Regional Screening Level (RSL) Resident Tapwater Table (TR=1E-06, HQ=0.1) November 2022.

2-M – 2-Methylnaphthalene
 GPS – Global Positioning System
 mg/L – Milligrams per liter
 ug/L – Micrograms per liter

| Contaminant of Concern | ECMC Concentration Standard |
|---|-------------------------------|
| B - Benzene | 5 ug/L |
| T - Toluene | 560 ug/L |
| E - Ethylbenzene | 700 ug/L |
| X – Total Xylenes | 1,400 ug/L |
| N – Naphthalene | 140 ug/L |
| 1,2,4-TMB – 1, 2, 4-Trimethylbenzene | 67 ug/L |
| 1,3,5-TMB – 1, 3, 5-Trimethylbenzene | 67 ug/L |
| 2-Methylnaphthalene | 3.6 ug/L ⁽⁵⁾ |
| TDS – Total Dissolved Solids | 1.25 x background |
| Cl – Chloride Ion | 250 mg/L or 1.25 x background |
| SO ₄ – Sulfate Ion | 250 mg/L or 1.25 x background |



DATE: 07/26/2023
 DESIGNED BY: JW
 DRAWN BY: HM



**Noble Energy, Inc. – DJ Basin
 Thompson 28-10 FAC**
 NESW, Section 28, Township 4 North, Range 64 West
 Weld County, Colorado

Groundwater Analytical
 Results Map
 (06/19/2023)

FIGURE
 5

ATTACHMENT A
LABORATORY SOIL ANALYTICAL DATA REPORTS

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 26, 2023

Jacob Whritenour

Tasman Geosciences

6855 W. 119th Ave.

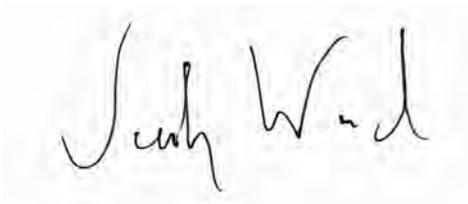
Broomfield, CO 80020

RE: Noble - Thompson 28-10

Work Order #2306058

Enclosed are the results of analyses for samples received by Summit Scientific on 06/02/23 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury

President



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

Project: Noble - Thompson 28-10
 Project Number: UWRWE-A2396-ABN
 Project Manager: Jacob Whritenour

Reported:
 07/26/23 13:42

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-------------|---------------|--------|----------------|----------------|
| BH01@0.5' | 2306058-01 | Soil | 06/02/23 08:34 | 06/02/23 17:00 |
| BH01@6' | 2306058-02 | Soil | 06/02/23 13:24 | 06/02/23 17:00 |
| BH01@18-19' | 2306058-03 | Soil | 06/02/23 13:50 | 06/02/23 17:00 |
| BH02@0.5' | 2306058-04 | Soil | 06/02/23 08:32 | 06/02/23 17:00 |
| BH02@6' | 2306058-05 | Soil | 06/02/23 14:00 | 06/02/23 17:00 |
| BH02@18-19' | 2306058-06 | Soil | 06/02/23 14:25 | 06/02/23 17:00 |
| BH03@0.5' | 2306058-07 | Soil | 06/02/23 08:36 | 06/02/23 17:00 |
| BH03@6' | 2306058-08 | Soil | 06/02/23 14:40 | 06/02/23 17:00 |
| BH03@18-19' | 2306058-09 | Soil | 06/02/23 14:50 | 06/02/23 17:00 |
| BH04@0.5' | 2306058-10 | Soil | 06/02/23 08:40 | 06/02/23 17:00 |
| BH04@6' | 2306058-11 | Soil | 06/02/23 12:45 | 06/02/23 17:00 |
| BH04@18-19' | 2306058-12 | Soil | 06/02/23 13:10 | 06/02/23 17:00 |
| BH05@0.5' | 2306058-13 | Soil | 06/02/23 08:30 | 06/02/23 17:00 |
| BH05@6' | 2306058-14 | Soil | 06/02/23 10:50 | 06/02/23 17:00 |
| BH05@18-19' | 2306058-15 | Soil | 06/02/23 11:15 | 06/02/23 17:00 |
| BH06@0.5' | 2306058-16 | Soil | 06/02/23 08:42 | 06/02/23 17:00 |
| BG01@0.5' | 2306058-17 | Soil | 06/02/23 10:40 | 06/02/23 17:00 |
| BG01@6' | 2306058-18 | Soil | 06/02/23 10:41 | 06/02/23 17:00 |
| BG01@18-19' | 2306058-19 | Soil | 06/02/23 11:00 | 06/02/23 17:00 |
| BG02@0.5' | 2306058-20 | Soil | 06/02/23 10:42 | 06/02/23 17:00 |
| BG02@6' | 2306058-21 | Soil | 06/02/23 10:43 | 06/02/23 17:00 |
| BG02@18-19' | 2306058-22 | Soil | 06/02/23 11:02 | 06/02/23 17:00 |
| BG03@0.5' | 2306058-23 | Soil | 06/02/23 10:45 | 06/02/23 17:00 |
| BG03@6' | 2306058-24 | Soil | 06/02/23 10:47 | 06/02/23 17:00 |
| BG03@18-19' | 2306058-25 | Soil | 06/02/23 11:02 | 06/02/23 17:00 |
| BG04@0.5' | 2306058-26 | Soil | 06/02/23 10:45 | 06/02/23 17:00 |
| BG04@6' | 2306058-27 | Soil | 06/02/23 10:48 | 06/02/23 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.



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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN

Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-------------|---------------|--------|----------------|----------------|
| BG04@18-19' | 2306058-28 | Soil | 06/02/23 11:03 | 06/02/23 17:00 |
| BG05@0.5' | 2306058-29 | Soil | 06/02/23 10:46 | 06/02/23 17:00 |
| BG05@6' | 2306058-30 | Soil | 06/02/23 10:49 | 06/02/23 17:00 |
| BG05@18-19' | 2306058-31 | Soil | 06/02/23 11:04 | 06/02/23 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.

| | | |
|--------------------------------------|-------------------------------------|--|
| Send Data To: | | Send Invoice To: |
| Client: Noble/Tasman | Project Manager: Jake Whritenour | Company: <i>Chevron</i> |
| Address: 6855 W. 119th Ave. | E-Mail: Jwhritenour@tasman-geo.com | Project Name/Location: <i>Thompson 28-10</i> |
| City/State/Zip: Broomfield/CO/ 80020 | | AFE#: |
| Phone: 602-881-5716 | Project Name: <i>Thompson 28-10</i> | PO/Billing Codes: |
| Sampler Name: Dennis Gray | Project Number: | Contact: <i>Dan Peterson</i> |

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative | | | | Matrix | | Air-Canister # | Other Arsenic | Analysis Requested | | | | | | | Special Instructions | | |
|----|--------------------|--------------|--------------|-----------------|--------------|------|------|-------|--------|------|----------------|---------------|--------------------|-----------|-----------|-----------|-------------|-------------|------|----------------------|--------------------------------|--|
| | | | | | HCl | HNO3 | None | Other | Water | Soil | | | Metals - 915 | VOC - 915 | TPH - 915 | PAH - 915 | SAR, EC, pH | Boron - HWS | HOLD | | pH | |
| 1 | BH01@0.5' | 6-2-23 | 834 | 1 | | | X | | | X | | | | | | | | | | X | SAR, EC, pH by saturated paste | |
| 2 | BH01@6' | | 1324 | 2 | | | | | | | X | | X | X | X | X | X | | | | | |
| 3 | BH01@18-19' | | 1350 | 2 | | | | | | | X | | X | X | X | X | X | | | | | |
| 4 | BH02@0.5' | | 832 | 1 | | | | | | | | | | | | | | | | X | | |
| 5 | BH02@6' | | 1400 | 2 | | | | | | | X | | X | X | X | X | X | | | | | |
| 6 | BH02@18-19' | | 1425 | 2 | | | | | | | X | | X | X | X | X | X | | | | | |
| 7 | BH03@0.5' | | 836 | 1 | | | | | | | | | | | | | | | | X | | |
| 8 | BH03@6' | | 1440 | 2 | | | | | | | X | | X | X | X | X | X | | | | | |
| 9 | BH03@18-19' | | 1450 | 2 | | | | | | | X | | X | X | X | X | X | | | | | |
| 10 | BH04@0.5' | | 840 | 1 | | | | | | | | | | | | | | | | X | | |
| 11 | BH04@6' | | 1245 | 2 | | | | | | | X | | X | X | X | X | X | | | | | |
| 12 | BH04@18-19' | | 1310 | 2 | | | | | | | X | | X | X | X | X | X | | | | | |
| 13 | BH05@0.5' | | 830 | 1 | | | | | | | | | | | | | | | | X | | |
| 14 | BH05@6' | | 1050 | 2 | | | | | | | X | | X | X | X | X | X | | | | | |
| 15 | BH05@18-19' | | 1115 | 2 | | | | | | | X | | X | X | X | X | X | | | | | |

| | | | | | | |
|---|-----------------------------|-------------------------------------|------------------------|-------------------|---------------|---------------|
| Relinquished by: <i>Dan</i> | Date/Time: 6-2-23 1700 | Received by: Tasman Lock Box | Date/Time: 6-2-23 1700 | TAT Business Days | Field DO | Notes: |
| | | | | Same Day | Field EC | |
| Relinquished by: <i>Tasman Lock Box</i> | Date/Time: 6-2-23 1738 | Received by: <i>[Signature]</i> | Date/Time: 6-2-23 1738 | 1 Day | Field ORP | |
| | | | | 2 Days | Field pH | |
| | | | | 3 Days | Field Temp. | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | Standard | X Field Turb. | |
| Temperature Upon Receipt: 16.0 | Corrected Temperature: 16.0 | IR gun #: | HNO3 lot #: | | | |

| | | | |
|--------------------------------------|--|-------------------------------------|--|
| | | Send Data To: | Send Invoice To: |
| Client: Noble/Tasman | | Project Manager: Jake Whritenour | Company: <u>Chevron</u> |
| Address: 6855 W. 119th Ave. | | E-Mail: Jwhritenour@tasman-geo.com | Project Name/Location: <u>Thompson 28-10</u> |
| City/State/Zip: Broomfield/CO/ 80020 | | | AFE#: |
| Phone: 602-881-5716 | | Project Name: <u>Thompson 28-10</u> | PO/Billing Codes: |
| Sampler Name: Dennis Gray | | Project Number: | Contact: <u>Dan Peterson</u> |

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative | | | | Matrix | | Air-Canister # | Other pH | Analysis Requested | | | | | | | Special Instructions | |
|----|--------------------|--------------|--------------|-----------------|--------------|------|------|-------|--------|------|----------------|----------|--------------------|-----------|-----------|-----------|-------------|-------------|------|----------------------|--------------------------------|
| | | | | | HCl | HNO3 | None | Other | Water | Soil | | | Metals - 915 | VOC - 915 | TPH - 915 | PAH - 915 | SAR, EC, pH | Boron - HWS | HOLD | | Arsenic, pH |
| 1 | BH06 @ 0.5' | 6-2-23 | 842 | 1 | | | X | | | X | | | | | | | | | | | SAR, EC, pH by saturated paste |
| 2 | Ba01 @ 0.5' | | 1040 | 1 | | | | | | X | | | | | | | | | | | |
| 3 | Ba01 @ 6' | | 1041 | | | | | | | | | | | | | | | | | | X |
| 4 | Ba01 @ 18-19' | | 1100 | | | | | | | | | | | | | | | | | | X |
| 5 | Ba02 @ 0.5' | | 1042 | | | | | | | X | | | | | | | | | | | |
| 6 | Ba02 @ 6' | | 1043 | | | | | | | | | | | | | | | | | | X |
| 7 | Ba02 @ 18-19' | | 1102 | | | | | | | | | | | | | | | | | | X |
| 8 | Ba03 @ 0.5' | | 1045 | | | | | | | X | | | | | | | | | | | |
| 9 | Ba03 @ 6' | | 1047 | | | | | | | | | | | | | | | | | | X |
| 10 | Ba03 @ 18-19' | | 1102 | | | | | | | | | | | | | | | | | | X |
| 11 | Ba04 @ 0.5' | | 1045 | | | | | | | X | | | | | | | | | | | |
| 12 | Ba04 @ 6' | | 1048 | | | | | | | | | | | | | | | | | | X |
| 13 | Ba04 @ 18-19' | | 1103 | | | | | | | | | | | | | | | | | | X |
| 14 | Ba05 @ 0.5' | | 1046 | | | | | | | X | | | | | | | | | | | |
| 15 | Ba05 @ 6' | | 1049 | | | | | | | | | | | | | | | | | | X |

| | | | | | | | | |
|---|---|-------------------------------------|---|-------------------|-------------------------------------|-------------|--|---------------|
| Relinquished by: <u>Dan Peterson</u> | Date/Time: <u>6-2-23</u> <u>1700</u> | Received by: Tasman Lock Box | Date/Time: <u>6-2-23</u> <u>1700</u> | TAT Business Days | | Field DO | | Notes: |
| | | | | Same Day | | Field EC | | |
| Relinquished by: <u>Tasman Lock Box</u> | Date/Time: <u>6-2-23</u> <u>1738</u> | Received by: <u>[Signature]</u> | Date/Time: <u>6-2-23</u> <u>1738</u> | 1 Day | | Field ORP | | |
| | | | | 2 Days | | Field pH | | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 3 Days | | Field Temp. | | |
| | | | | Standard | <input checked="" type="checkbox"/> | Field Turb. | | |
| Temperature Upon Receipt: <u>16.0</u> | Corrected Temperature: <u>16.0</u> | IR gun #: <u>1</u> | HNO3 lot #: _____ | | | | | |

| | | | |
|--------------------------------------|--|-------------------------------------|--|
| | | Send Data To: | Send Invoice To: |
| Client: Noble/Tasman | | Project Manager: Jake Whritenour | Company: <i>Chevron</i> |
| Address: 6855 W. 119th Ave. | | E-Mail: Jwhritenour@tasman-geo.com | Project Name/Location: <i>Thompson 28-10</i> |
| City/State/Zip: Broomfield/CO/ 80020 | | | AFE#: |
| Phone: 602-881-5716 | | Project Name: <i>Thompson 28-10</i> | PO/Billing Codes: |
| Sampler Name: Dennis Gray | | Project Number: | Contact: <i>Dan Peterson</i> |

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative | | | | Matrix | | | Analysis Requested | | | | | | | Special Instructions | |
|----|--------------------|---------------|--------------|-----------------|--------------|------|----------|-------|--------|----------|----------------|--------------------|--------------|-----------|-----------|-----------|-------------|-------------|----------------------|--------------------------------|
| | | | | | HCl | HNO3 | None | Other | Water | Soil | Air-Canister # | Other | Metals - 915 | VOC - 915 | TPH - 915 | PAH - 915 | SAR, EC, pH | Boron - HWS | | HOLD |
| 1 | <i>BG05018-19</i> | <i>6-2-23</i> | <i>1104</i> | <i>1</i> | | | <i>X</i> | | | <i>X</i> | | | | | | | | | <i>X</i> | SAR, EC, pH by saturated paste |
| 2 | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | |
|--|----------------------------------|-------------------------------------|----------------------------------|--------------------|-------------|-------------|---------------|
| Relinquished by: <i>Dennis Gray</i> | Date/Time: <i>6-2-23 1700</i> | Received by: Tasman Lock Box | Date/Time: <i>6-2-23 1700</i> | TAT Business Days | | Field DO | Notes: |
| | | | | Same Day | Field EC | | |
| | | | | 1 Day | Field ORP | | |
| | | | | 2 Days | Field pH | | |
| Relinquished by: <i>Tasman Lock Box</i> | Date/Time: <i>6/23 1738</i> | Received by: <i>[Signature]</i> | Date/Time: <i>6/23 1738</i> | 3 Days | Field Temp. | | |
| | | | | Standard | <i>X</i> | Field Turb. | |
| Temperature Upon Receipt: <i>16.0</i> | | Corrected Temperature: <i>6</i> | | IR gun #: <i>1</i> | HNO3 lot #: | | |

S₂

3/3
Sample Receipt Checklist

S2 Work Order# 2366058

Client: Noble Farman Client Project ID: Thompson 28-10

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

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

Temp (°C) Thermometer #

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

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

AS 6/2/23
Custodian Printed Name Date/Time



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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BH01@0.5'
2306058-01 (Soil)

Summit Scientific

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

Date Sampled: **06/02/23 08:34**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| pH | 8.29 | | pH Units | 1 | BGF0315 | 06/08/23 | 06/08/23 | EPA 9045D | |

Summit Scientific

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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BH01@6'
2306058-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/23 13:24**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Benzene | ND | 0.0020 | mg/kg | 1 | BGF0185 | 06/06/23 | 06/07/23 | EPA 8260B | |
| Toluene | ND | 0.0050 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | " | " | " | " | " | |

Date Sampled: **06/02/23 13:24**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | Units | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0501 | 125 % | 50-150 | " | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0354 | 88.6 % | 50-150 | " | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0432 | 108 % | 50-150 | " | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/02/23 13:24**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BGF0191 | 06/06/23 | 06/07/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **06/02/23 13:24**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | Units | | | | | | |
| Surrogate: o-Terphenyl | 11.8 | 94.8 % | 30-150 | " | " | " | " | " | |

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BH01@6'
2306058-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/02/23 13:24**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BGF0243 | 06/07/23 | 06/08/23 | EPA 8270D SIM | |
| Anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Chrysene | ND | 0.00500 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluorene | ND | 0.00500 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| 1-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |

Date Sampled: **06/02/23 13:24**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0229 | 68.7 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0233 | 69.8 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/02/23 13:24**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|---------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 0.0486 | 0.0100 | mg/L | 1 | BGF0384 | 06/09/23 | 06/16/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **06/02/23 13:24**

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

Summit Scientific

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BH01@6'
2306058-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| | | | | | | | | |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|
| Arsenic | 1.44 | 0.200 | mg/kg dry | 1 | BGF0299 | 06/08/23 | 06/13/23 | EPA 6020B |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **06/02/23 13:24**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 55.4 | 0.0576 | mg/L dry | 1 | BGF0392 | 06/10/23 | 06/16/23 | EPA 6020B | |
| Magnesium | 13.6 | 0.0576 | " | " | " | " | " | " | |
| Sodium | 11.4 | 0.0576 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **06/02/23 13:24**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.356 | 0.00100 | units | 1 | BGF0627 | 06/17/23 | 06/17/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/23 13:24**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 86.9 | | % | 1 | BGF0375 | 06/09/23 | 06/09/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/02/23 13:24**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.526 | 0.0100 | mmhos/cm | 1 | BGF0399 | 06/11/23 | 06/11/23 | EPA 120.1 | |

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

Date Sampled: **06/02/23 13:24**

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

Summit Scientific

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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
 Project Manager: Jacob Whritenour

Reported:
 07/26/23 13:42

BH01@6'
2306058-02 (Soil)

Summit Scientific

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

| | | | | | | | |
|----|------|----------|---|---------|----------|----------|-----------|
| pH | 7.52 | pH Units | 1 | BGF0398 | 06/11/23 | 06/11/23 | EPA 9045D |
|----|------|----------|---|---------|----------|----------|-----------|

Summit Scientific

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BH01@18-19'
2306058-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/23 13:50**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BGF0185 | 06/06/23 | 06/07/23 | EPA 8260B | |
| Toluene | ND | 0.0050 | | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | | " | " | " | " | " | " | |

Date Sampled: **06/02/23 13:50**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0544 | 136 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0352 | 87.9 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0427 | 107 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/02/23 13:50**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BGF0191 | 06/06/23 | 06/07/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **06/02/23 13:50**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: o-Terphenyl | 13.8 | 111 % | | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BH01@18-19'
2306058-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/02/23 13:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BGF0243 | 06/07/23 | 06/08/23 | EPA 8270D SIM | |
| Anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Chrysene | ND | 0.00500 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluorene | ND | 0.00500 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| 1-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |

Date Sampled: **06/02/23 13:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0220 | 65.9 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0217 | 65.2 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/02/23 13:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 0.258 | 0.0100 | mg/L | 1 | BGF0384 | 06/09/23 | 06/16/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **06/02/23 13:50**

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

Summit Scientific

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BH01@18-19'
2306058-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| | | | | | | | | |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|
| Arsenic | 2.59 | 0.200 | mg/kg dry | 1 | BGF0299 | 06/08/23 | 06/13/23 | EPA 6020B |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **06/02/23 13:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 22.3 | 0.0591 | mg/L dry | 1 | BGF0392 | 06/10/23 | 06/16/23 | EPA 6020B | |
| Magnesium | 6.96 | 0.0591 | " | " | " | " | " | " | |
| Sodium | 35.3 | 0.0591 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **06/02/23 13:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 1.67 | 0.00100 | units | 1 | BGF0627 | 06/17/23 | 06/17/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/23 13:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 84.6 | | % | 1 | BGF0375 | 06/09/23 | 06/09/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/02/23 13:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.301 | 0.0100 | mmhos/cm | 1 | BGF0399 | 06/11/23 | 06/11/23 | EPA 120.1 | |

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

Date Sampled: **06/02/23 13:50**

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

Summit Scientific

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



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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN

Project Manager: Jacob Whritenour

Reported:
 07/26/23 13:42

BH01@18-19'

2306058-03 (Soil)

Summit Scientific

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

| | | | | | | | |
|----|------|----------|---|---------|----------|----------|-----------|
| pH | 8.24 | pH Units | 1 | BGF0398 | 06/11/23 | 06/11/23 | EPA 9045D |
|----|------|----------|---|---------|----------|----------|-----------|

Summit Scientific

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

Project: Noble - Thompson 28-10
 Project Number: UWRWE-A2396-ABN
 Project Manager: Jacob Whritenour

Reported:
 07/26/23 13:42

BH02@0.5'
2306058-04 (Soil)

Summit Scientific

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

Date Sampled: **06/02/23 08:32**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| pH | 7.94 | | pH Units | 1 | BGF0315 | 06/08/23 | 06/08/23 | EPA 9045D | |

Summit Scientific

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BH02@6'
2306058-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/23 14:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | ND | 0.0020 | mg/kg | 1 | BGF0185 | 06/06/23 | 06/07/23 | EPA 8260B | |
| Toluene | ND | 0.0050 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | " | " | " | " | " | |

Date Sampled: **06/02/23 14:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0520 | 130 % | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0355 | 88.7 % | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0437 | 109 % | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/02/23 14:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BGF0191 | 06/06/23 | 06/07/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **06/02/23 14:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 13.2 | 105 % | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BH02@6'
2306058-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/02/23 14:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BGF0243 | 06/07/23 | 06/08/23 | EPA 8270D SIM | |
| Anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Chrysene | ND | 0.00500 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluorene | ND | 0.00500 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| 1-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |

Date Sampled: **06/02/23 14:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0235 | 70.4 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0258 | 77.3 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/02/23 14:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|---------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 0.0798 | 0.0100 | mg/L | 1 | BGF0384 | 06/09/23 | 06/16/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **06/02/23 14:00**

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

Summit Scientific

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BH02@6'
2306058-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| | | | | | | | | |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|
| Arsenic | 1.25 | 0.200 | mg/kg dry | 1 | BGF0299 | 06/08/23 | 06/13/23 | EPA 6020B |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **06/02/23 14:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 235 | 0.0560 | mg/L dry | 1 | BGF0392 | 06/10/23 | 06/16/23 | EPA 6020B | |
| Magnesium | 66.3 | 0.0560 | " | " | " | " | " | " | |
| Sodium | 4.45 | 0.0560 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **06/02/23 14:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0660 | 0.00100 | units | 1 | BGF0627 | 06/17/23 | 06/17/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/23 14:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 89.2 | | % | 1 | BGF0375 | 06/09/23 | 06/09/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/02/23 14:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.203 | 0.0100 | mmhos/cm | 1 | BGF0399 | 06/11/23 | 06/11/23 | EPA 120.1 | |

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

Date Sampled: **06/02/23 14:00**

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

Summit Scientific

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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
 Project Manager: Jacob Whritenour

Reported:
 07/26/23 13:42

BH02@6'
2306058-05 (Soil)

Summit Scientific

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

| | | | | | | | |
|----|------|----------|---|---------|----------|----------|-----------|
| pH | 7.42 | pH Units | 1 | BGF0398 | 06/11/23 | 06/11/23 | EPA 9045D |
|----|------|----------|---|---------|----------|----------|-----------|

Summit Scientific

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Broomfield CO, 80020

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BH02@18-19'
2306058-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/23 14:25**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | ND | 0.0020 | mg/kg | 1 | BGF0185 | 06/06/23 | 06/07/23 | EPA 8260B | |
| Toluene | ND | 0.0050 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | " | " | " | " | " | |

Date Sampled: **06/02/23 14:25**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0539 | 135 % | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0356 | 89.0 % | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0436 | 109 % | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/02/23 14:25**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BGF0191 | 06/06/23 | 06/07/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **06/02/23 14:25**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 13.4 | 107 % | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BH02@18-19'
2306058-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/02/23 14:25**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BGF0243 | 06/07/23 | 06/08/23 | EPA 8270D SIM | |
| Anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Chrysene | ND | 0.00500 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluorene | ND | 0.00500 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| 1-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |

Date Sampled: **06/02/23 14:25**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0204 | 61.2 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0232 | 69.7 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/02/23 14:25**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 0.140 | 0.0100 | mg/L | 1 | BGF0384 | 06/09/23 | 06/16/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **06/02/23 14:25**

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

Summit Scientific

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BH02@18-19'
2306058-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| | | | | | | | | |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|
| Arsenic | 1.61 | 0.200 | mg/kg dry | 1 | BGF0299 | 06/08/23 | 06/13/23 | EPA 6020B |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **06/02/23 14:25**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 23.9 | 0.0621 | mg/L dry | 1 | BGF0392 | 06/10/23 | 06/16/23 | EPA 6020B | |
| Magnesium | 6.77 | 0.0621 | " | " | " | " | " | " | |
| Sodium | 58.7 | 0.0621 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **06/02/23 14:25**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 2.73 | 0.00100 | units | 1 | BGF0627 | 06/17/23 | 06/17/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/23 14:25**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 80.5 | | % | 1 | BGF0375 | 06/09/23 | 06/09/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/02/23 14:25**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.438 | 0.0100 | mmhos/cm | 1 | BGF0399 | 06/11/23 | 06/11/23 | EPA 120.1 | |

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

Date Sampled: **06/02/23 14:25**

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

Summit Scientific

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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
 Project Manager: Jacob Whritenour

Reported:
 07/26/23 13:42

BH02@18-19'
2306058-06 (Soil)

Summit Scientific

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

| | | | | | | | |
|----|------|----------|---|---------|----------|----------|-----------|
| pH | 7.89 | pH Units | 1 | BGF0398 | 06/11/23 | 06/11/23 | EPA 9045D |
|----|------|----------|---|---------|----------|----------|-----------|

Summit Scientific

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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
 Project Manager: Jacob Whritenour

Reported:
 07/26/23 13:42

BH03@0.5'
2306058-07 (Soil)

Summit Scientific

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

Date Sampled: **06/02/23 08:36**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| pH | 8.03 | | pH Units | 1 | BGF0315 | 06/08/23 | 06/08/23 | EPA 9045D | |

Summit Scientific

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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BH03@6'
2306058-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/23 14:40**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BGF0185 | 06/06/23 | 06/07/23 | EPA 8260B | |
| Toluene | ND | 0.0050 | | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | | " | " | " | " | " | " | |

Date Sampled: **06/02/23 14:40**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0518 | 130 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0353 | 88.4 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0433 | 108 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/02/23 14:40**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BGF0191 | 06/06/23 | 06/07/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **06/02/23 14:40**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: o-Terphenyl | 12.0 | 95.6 % | | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BH03@6'
2306058-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/02/23 14:40**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BGF0243 | 06/07/23 | 06/08/23 | EPA 8270D SIM | |
| Anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Chrysene | ND | 0.00500 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluorene | ND | 0.00500 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| 1-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |

Date Sampled: **06/02/23 14:40**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0248 | 74.3 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0246 | 73.8 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/02/23 14:40**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|---------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 0.0648 | 0.0100 | mg/L | 1 | BGF0384 | 06/09/23 | 06/16/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **06/02/23 14:40**

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

Summit Scientific

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BH03@6'
2306058-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| | | | | | | | | |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|
| Arsenic | 2.01 | 0.200 | mg/kg dry | 1 | BGF0299 | 06/08/23 | 06/13/23 | EPA 6020B |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **06/02/23 14:40**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 31.2 | 0.0574 | mg/L dry | 1 | BGF0392 | 06/10/23 | 06/16/23 | EPA 6020B | |
| Magnesium | 7.84 | 0.0574 | " | " | " | " | " | " | |
| Sodium | 32.7 | 0.0574 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **06/02/23 14:40**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 1.36 | 0.00100 | units | 1 | BGF0627 | 06/17/23 | 06/17/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/23 14:40**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 87.0 | | % | 1 | BGF0375 | 06/09/23 | 06/09/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/02/23 14:40**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.352 | 0.0100 | mmhos/cm | 1 | BGF0399 | 06/11/23 | 06/11/23 | EPA 120.1 | |

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

Date Sampled: **06/02/23 14:40**

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

Summit Scientific

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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN

Project Manager: Jacob Whritenour

Reported:
 07/26/23 13:42

BH03@6'
2306058-08 (Soil)

Summit Scientific

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

| | | | | | | | |
|----|------|----------|---|---------|----------|----------|-----------|
| pH | 7.72 | pH Units | 1 | BGF0398 | 06/11/23 | 06/11/23 | EPA 9045D |
|----|------|----------|---|---------|----------|----------|-----------|

Summit Scientific

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BH03@18-19'
2306058-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/23 14:50**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BGF0185 | 06/06/23 | 06/07/23 | EPA 8260B | |
| Toluene | ND | 0.0050 | | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | | " | " | " | " | " | " | |

Date Sampled: **06/02/23 14:50**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0551 | 138 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0355 | 88.8 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0434 | 108 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/02/23 14:50**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BGF0191 | 06/06/23 | 06/07/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **06/02/23 14:50**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: o-Terphenyl | 11.3 | 90.0 % | | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BH03@18-19'
2306058-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/02/23 14:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BGF0243 | 06/07/23 | 06/08/23 | EPA 8270D SIM | |
| Anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Chrysene | ND | 0.00500 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluorene | ND | 0.00500 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| 1-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |

Date Sampled: **06/02/23 14:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0209 | 62.7 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0227 | 68.2 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/02/23 14:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 0.317 | 0.0100 | mg/L | 1 | BGF0384 | 06/09/23 | 06/16/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **06/02/23 14:50**

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

Summit Scientific

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BH03@18-19'
2306058-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| | | | | | | | | |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|
| Arsenic | 3.57 | 0.200 | mg/kg dry | 1 | BGF0299 | 06/08/23 | 06/13/23 | EPA 6020B |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **06/02/23 14:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 19.4 | 0.0561 | mg/L dry | 1 | BGF0392 | 06/10/23 | 06/16/23 | EPA 6020B | |
| Magnesium | 5.98 | 0.0561 | " | " | " | " | " | " | |
| Sodium | 39.1 | 0.0561 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **06/02/23 14:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 1.99 | 0.00100 | units | 1 | BGF0627 | 06/17/23 | 06/17/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/23 14:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 89.2 | | % | 1 | BGF0375 | 06/09/23 | 06/09/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/02/23 14:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.356 | 0.0100 | mmhos/cm | 1 | BGF0399 | 06/11/23 | 06/11/23 | EPA 120.1 | |

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

Date Sampled: **06/02/23 14:50**

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

Summit Scientific

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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
 Project Manager: Jacob Whritenour

Reported:
 07/26/23 13:42

BH03@18-19'
2306058-09 (Soil)

Summit Scientific

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

| | | | | | | | |
|----|------|----------|---|---------|----------|----------|-----------|
| pH | 7.85 | pH Units | 1 | BGF0398 | 06/11/23 | 06/11/23 | EPA 9045D |
|----|------|----------|---|---------|----------|----------|-----------|

Summit Scientific

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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
 Project Manager: Jacob Whritenour

Reported:
 07/26/23 13:42

BH04@0.5'
2306058-10 (Soil)

Summit Scientific

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

Date Sampled: **06/02/23 08:40**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| pH | 7.93 | | pH Units | 1 | BGF0315 | 06/08/23 | 06/08/23 | EPA 9045D | |

Summit Scientific

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BH04@6'
2306058-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/23 12:45**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BGF0185 | 06/06/23 | 06/07/23 | EPA 8260B | |
| Toluene | ND | 0.0050 | | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | | " | " | " | " | " | " | |

Date Sampled: **06/02/23 12:45**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0550 | 138 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0357 | 89.3 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0431 | 108 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/02/23 12:45**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BGF0191 | 06/06/23 | 06/07/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **06/02/23 12:45**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: o-Terphenyl | 11.2 | 89.8 % | | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BH04@6'
2306058-11 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/02/23 12:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BGF0243 | 06/07/23 | 06/08/23 | EPA 8270D SIM | |
| Anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Chrysene | ND | 0.00500 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluorene | ND | 0.00500 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| 1-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |

Date Sampled: **06/02/23 12:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0233 | 69.8 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0223 | 66.8 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/02/23 12:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|---------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 0.0555 | 0.0100 | mg/L | 1 | BGF0384 | 06/09/23 | 06/16/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **06/02/23 12:45**

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

Summit Scientific

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



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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BH04@6'
2306058-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| | | | | | | | | |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|
| Arsenic | 1.48 | 0.200 | mg/kg dry | 1 | BGF0299 | 06/08/23 | 06/13/23 | EPA 6020B |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **06/02/23 12:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 192 | 0.0573 | mg/L dry | 1 | BGF0392 | 06/10/23 | 06/16/23 | EPA 6020B | |
| Magnesium | 47.5 | 0.0573 | " | " | " | " | " | " | |
| Sodium | 8.65 | 0.0573 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **06/02/23 12:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.145 | 0.00100 | units | 1 | BGF0627 | 06/17/23 | 06/17/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/23 12:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 87.3 | | % | 1 | BGF0375 | 06/09/23 | 06/09/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/02/23 12:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.315 | 0.0100 | mmhos/cm | 1 | BGF0399 | 06/11/23 | 06/11/23 | EPA 120.1 | |

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

Date Sampled: **06/02/23 12:45**

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

Summit Scientific

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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
 Project Manager: Jacob Whritenour

Reported:
 07/26/23 13:42

BH04@6'
2306058-11 (Soil)

Summit Scientific

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

| | | | | | | | |
|----|------|----------|---|---------|----------|----------|-----------|
| pH | 7.12 | pH Units | 1 | BGF0398 | 06/11/23 | 06/11/23 | EPA 9045D |
|----|------|----------|---|---------|----------|----------|-----------|

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BH04@18-19'
2306058-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/23 13:10**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | ND | 0.0020 | mg/kg | 1 | BGF0185 | 06/06/23 | 06/07/23 | EPA 8260B | |
| Toluene | ND | 0.0050 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | " | " | " | " | " | |

Date Sampled: **06/02/23 13:10**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0553 | 138 % | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0355 | 88.7 % | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0431 | 108 % | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/02/23 13:10**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BGF0191 | 06/06/23 | 06/07/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **06/02/23 13:10**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 11.1 | 88.7 % | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BH04@18-19'
2306058-12 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/02/23 13:10**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BGF0243 | 06/07/23 | 06/08/23 | EPA 8270D SIM | |
| Anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Chrysene | ND | 0.00500 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluorene | ND | 0.00500 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| 1-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |

Date Sampled: **06/02/23 13:10**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0207 | 62.1 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0199 | 59.8 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/02/23 13:10**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 0.171 | 0.0100 | mg/L | 1 | BGF0384 | 06/09/23 | 06/16/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **06/02/23 13:10**

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

Summit Scientific

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BH04@18-19'
2306058-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| | | | | | | | | |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|
| Arsenic | 3.54 | 0.200 | mg/kg dry | 1 | BGF0299 | 06/08/23 | 06/13/23 | EPA 6020B |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **06/02/23 13:10**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 25.8 | 0.0599 | mg/L dry | 1 | BGF0392 | 06/10/23 | 06/16/23 | EPA 6020B | |
| Magnesium | 7.10 | 0.0599 | " | " | " | " | " | " | |
| Sodium | 47.8 | 0.0599 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **06/02/23 13:10**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 2.15 | 0.00100 | units | 1 | BGF0627 | 06/17/23 | 06/17/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/23 13:10**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 83.4 | | % | 1 | BGF0375 | 06/09/23 | 06/09/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/02/23 13:10**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.406 | 0.0100 | mmhos/cm | 1 | BGF0399 | 06/11/23 | 06/11/23 | EPA 120.1 | |

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

Date Sampled: **06/02/23 13:10**

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

Summit Scientific

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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN

Project Manager: Jacob Whritenour

Reported:
 07/26/23 13:42

BH04@18-19'

2306058-12 (Soil)

Summit Scientific

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

| | | | | | | | |
|----|------|----------|---|---------|----------|----------|-----------|
| pH | 7.92 | pH Units | 1 | BGF0398 | 06/11/23 | 06/11/23 | EPA 9045D |
|----|------|----------|---|---------|----------|----------|-----------|

Summit Scientific

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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
 Project Manager: Jacob Whritenour

Reported:
 07/26/23 13:42

BH05@0.5'
2306058-13 (Soil)

Summit Scientific

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

Date Sampled: **06/02/23 08:30**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| pH | 7.83 | | pH Units | 1 | BGF0315 | 06/08/23 | 06/08/23 | EPA 9045D | |

Summit Scientific

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BH05@6'
2306058-14 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/23 10:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | ND | 0.0020 | mg/kg | 1 | BGF0185 | 06/06/23 | 06/07/23 | EPA 8260B | |
| Toluene | ND | 0.0050 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | " | " | " | " | " | |

Date Sampled: **06/02/23 10:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0553 | 138 % | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0352 | 88.1 % | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0428 | 107 % | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/02/23 10:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BGF0191 | 06/06/23 | 06/07/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **06/02/23 10:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 12.7 | 102 % | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BH05@6'
2306058-14 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/02/23 10:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BGF0243 | 06/07/23 | 06/08/23 | EPA 8270D SIM | |
| Anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Chrysene | ND | 0.00500 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluorene | ND | 0.00500 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| 1-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |

Date Sampled: **06/02/23 10:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0240 | 71.9 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0240 | 71.9 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/02/23 10:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|---------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 0.0788 | 0.0100 | mg/L | 1 | BGF0384 | 06/09/23 | 06/16/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **06/02/23 10:50**

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

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BH05@6'
2306058-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| | | | | | | | | |
|---------|-------|-------|-----------|---|---------|----------|----------|-----------|
| Arsenic | 0.995 | 0.200 | mg/kg dry | 1 | BGF0299 | 06/08/23 | 06/13/23 | EPA 6020B |
|---------|-------|-------|-----------|---|---------|----------|----------|-----------|

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **06/02/23 10:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 36.0 | 0.0570 | mg/L dry | 1 | BGF0392 | 06/10/23 | 06/16/23 | EPA 6020B | |
| Magnesium | 9.56 | 0.0570 | " | " | " | " | " | " | |
| Sodium | 41.1 | 0.0570 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **06/02/23 10:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 1.57 | 0.00100 | units | 1 | BGF0627 | 06/17/23 | 06/17/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/23 10:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 87.7 | | % | 1 | BGF0375 | 06/09/23 | 06/09/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/02/23 10:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.495 | 0.0100 | mmhos/cm | 1 | BGF0399 | 06/11/23 | 06/11/23 | EPA 120.1 | |

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

Date Sampled: **06/02/23 10:50**

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

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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
 Project Manager: Jacob Whritenour

Reported:
 07/26/23 13:42

BH05@6'
2306058-14 (Soil)

Summit Scientific

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

| | | | | | | | |
|----|------|----------|---|---------|----------|----------|-----------|
| pH | 7.71 | pH Units | 1 | BGF0398 | 06/11/23 | 06/11/23 | EPA 9045D |
|----|------|----------|---|---------|----------|----------|-----------|

Summit Scientific

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BH05@18-19'
2306058-15 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/23 11:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | ND | 0.0020 | mg/kg | 1 | BGF0185 | 06/06/23 | 06/07/23 | EPA 8260B | |
| Toluene | ND | 0.0050 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | " | " | " | " | " | |

Date Sampled: **06/02/23 11:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0575 | 144 % | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0356 | 88.9 % | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0430 | 108 % | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/02/23 11:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BGF0191 | 06/06/23 | 06/07/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **06/02/23 11:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 13.6 | 109 % | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BH05@18-19'
2306058-15 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/02/23 11:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BGF0243 | 06/07/23 | 06/08/23 | EPA 8270D SIM | |
| Anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Chrysene | ND | 0.00500 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluorene | ND | 0.00500 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| 1-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |

Date Sampled: **06/02/23 11:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0214 | 64.2 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0211 | 63.2 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/02/23 11:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 0.206 | 0.0100 | mg/L | 1 | BGF0384 | 06/09/23 | 06/16/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **06/02/23 11:15**

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

Summit Scientific

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BH05@18-19'
2306058-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| | | | | | | | | |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|
| Arsenic | 2.31 | 0.200 | mg/kg dry | 1 | BGF0299 | 06/08/23 | 06/13/23 | EPA 6020B |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **06/02/23 11:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 15.3 | 0.0610 | mg/L dry | 1 | BGF0392 | 06/10/23 | 06/16/23 | EPA 6020B | |
| Magnesium | 3.84 | 0.0610 | " | " | " | " | " | " | |
| Sodium | 41.2 | 0.0610 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **06/02/23 11:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 2.44 | 0.00100 | units | 1 | BGF0627 | 06/17/23 | 06/17/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/23 11:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 82.0 | | % | 1 | BGF0375 | 06/09/23 | 06/09/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/02/23 11:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.305 | 0.0100 | mmhos/cm | 1 | BGF0399 | 06/11/23 | 06/11/23 | EPA 120.1 | |

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

Date Sampled: **06/02/23 11:15**

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

Summit Scientific

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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
 Project Manager: Jacob Whritenour

Reported:
 07/26/23 13:42

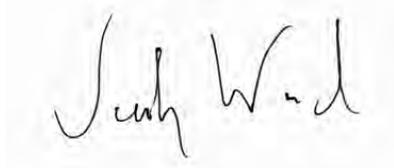
BH05@18-19'
2306058-15 (Soil)

Summit Scientific

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

| | | | | | | | |
|----|------|----------|---|---------|----------|----------|-----------|
| pH | 8.04 | pH Units | 1 | BGF0398 | 06/11/23 | 06/11/23 | EPA 9045D |
|----|------|----------|---|---------|----------|----------|-----------|

Summit Scientific



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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
 Project Manager: Jacob Whritenour

Reported:
 07/26/23 13:42

BH06@0.5'
2306058-16 (Soil)

Summit Scientific

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

Date Sampled: **06/02/23 08:42**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| pH | 7.61 | | pH Units | 1 | BGF0315 | 06/08/23 | 06/08/23 | EPA 9045D | |

Summit Scientific

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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
 Project Manager: Jacob Whritenour

Reported:
 07/26/23 13:42

BG01@0.5'
2306058-17 (Soil)

Summit Scientific

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

Date Sampled: **06/02/23 10:40**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| pH | 6.41 | | pH Units | 1 | BGF0315 | 06/08/23 | 06/08/23 | EPA 9045D | |

Summit Scientific

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BG01@6'
2306058-18 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/02/23 10:41**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 1.61 | 0.200 | mg/kg dry | 1 | BGF0299 | 06/08/23 | 06/13/23 | EPA 6020B | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/23 10:41**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | Units | | | | | | |
| % Solids | 88.9 | | % | 1 | BGF0375 | 06/09/23 | 06/09/23 | Calculation | |

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

Date Sampled: **06/02/23 10:41**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| pH | 7.80 | | pH Units | 1 | BGG0812 | 07/25/23 | 07/25/23 | EPA 9045D | I-03 |

Summit Scientific

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BG01@18-19'
2306058-19 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/02/23 11:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 4.00 | 0.200 | mg/kg dry | 1 | BGF0299 | 06/08/23 | 06/13/23 | EPA 6020B | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/23 11:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | Units | | | | | | |
| % Solids | 85.3 | | % | 1 | BGF0375 | 06/09/23 | 06/09/23 | Calculation | |

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

Date Sampled: **06/02/23 11:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| pH | 8.13 | | pH Units | 1 | BGG0812 | 07/25/23 | 07/25/23 | EPA 9045D | I-03 |

Summit Scientific

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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
 Project Manager: Jacob Whritenour

Reported:
 07/26/23 13:42

BG02@0.5'
2306058-20 (Soil)

Summit Scientific

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

Date Sampled: **06/02/23 10:42**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| pH | 8.10 | | pH Units | 1 | BGF0315 | 06/08/23 | 06/08/23 | EPA 9045D | |

Summit Scientific

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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BG02@6'
2306058-21 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/02/23 10:43**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 1.61 | 0.200 | mg/kg dry | 1 | BGF0299 | 06/08/23 | 06/13/23 | EPA 6020B | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/23 10:43**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | Units | | | | | | |
| % Solids | 90.7 | | % | 1 | BGF0375 | 06/09/23 | 06/09/23 | Calculation | |

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

Date Sampled: **06/02/23 10:43**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| pH | 7.85 | | pH Units | 1 | BGG0812 | 07/25/23 | 07/25/23 | EPA 9045D | I-03 |

Summit Scientific

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BG02@18-19'
2306058-22 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/02/23 11:02**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 3.39 | 0.200 | mg/kg dry | 1 | BGF0299 | 06/08/23 | 06/13/23 | EPA 6020B | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/23 11:02**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | Units | | | | | | |
| % Solids | 83.6 | | % | 1 | BGF0375 | 06/09/23 | 06/09/23 | Calculation | |

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

Date Sampled: **06/02/23 11:02**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| pH | 8.20 | | pH Units | 1 | BGG0812 | 07/25/23 | 07/25/23 | EPA 9045D | I-03 |

Summit Scientific

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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
 Project Manager: Jacob Whritenour

Reported:
 07/26/23 13:42

BG03@0.5'
2306058-23 (Soil)

Summit Scientific

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

Date Sampled: **06/02/23 10:45**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| pH | 8.14 | | pH Units | 1 | BGF0315 | 06/08/23 | 06/08/23 | EPA 9045D | |

Summit Scientific

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BG03@6'
2306058-24 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/02/23 10:47**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 1.79 | 0.200 | mg/kg dry | 1 | BGF0299 | 06/08/23 | 06/13/23 | EPA 6020B | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/23 10:47**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | Units | | | | | | |
| % Solids | 90.1 | | % | 1 | BGF0375 | 06/09/23 | 06/09/23 | Calculation | |

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

Date Sampled: **06/02/23 10:47**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| pH | 8.22 | | pH Units | 1 | BGG0812 | 07/25/23 | 07/25/23 | EPA 9045D | I-03 |

Summit Scientific

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BG03@18-19'
2306058-25 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/02/23 11:02**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 1.47 | 0.200 | mg/kg dry | 1 | BGF0318 | 06/08/23 | 06/09/23 | EPA 6020B | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/23 11:02**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | Units | | | | | | |
| % Solids | 80.9 | | % | 1 | BGF0375 | 06/09/23 | 06/09/23 | Calculation | |

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

Date Sampled: **06/02/23 11:02**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| pH | 8.19 | | pH Units | 1 | BGG0812 | 07/25/23 | 07/25/23 | EPA 9045D | I-03 |

Summit Scientific

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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BG04@0.5'
2306058-26 (Soil)

Summit Scientific

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

Date Sampled: **06/02/23 10:45**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| pH | 7.92 | | pH Units | 1 | BGF0315 | 06/08/23 | 06/08/23 | EPA 9045D | |

Summit Scientific

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BG04@6'
2306058-27 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/02/23 10:48**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 0.521 | 0.200 | mg/kg dry | 1 | BGF0318 | 06/08/23 | 06/09/23 | EPA 6020B | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/23 10:48**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | Units | | | | | | |
| % Solids | 89.5 | | % | 1 | BGF0375 | 06/09/23 | 06/09/23 | Calculation | |

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

Date Sampled: **06/02/23 10:48**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| pH | 8.27 | | pH Units | 1 | BGG0812 | 07/25/23 | 07/25/23 | EPA 9045D | I-03 |

Summit Scientific

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BG04@18-19'
2306058-28 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/02/23 11:03**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 1.27 | 0.200 | mg/kg dry | 1 | BGF0318 | 06/08/23 | 06/09/23 | EPA 6020B | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/23 11:03**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 82.3 | | % | 1 | BGF0375 | 06/09/23 | 06/09/23 | Calculation | |

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

Date Sampled: **06/02/23 11:03**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.26 | | pH Units | 1 | BGG0812 | 07/25/23 | 07/25/23 | EPA 9045D | I-03 |

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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
 Project Manager: Jacob Whritenour

Reported:
 07/26/23 13:42

BG05@0.5'
2306058-29 (Soil)

Summit Scientific

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

Date Sampled: **06/02/23 10:46**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| pH | 6.32 | | pH Units | 1 | BGF0315 | 06/08/23 | 06/08/23 | EPA 9045D | |

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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BG05@6'
2306058-30 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/02/23 10:49**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 0.540 | 0.200 | mg/kg dry | 1 | BGF0318 | 06/08/23 | 06/09/23 | EPA 6020B | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/23 10:49**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|-------------|-----------|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | Units | | | | | | |
| % Solids | 89.0 | | % | 1 | BGF0375 | 06/09/23 | 06/09/23 | Calculation | |

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

Date Sampled: **06/02/23 10:49**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|-------------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| pH | 8.28 | | pH Units | 1 | BGG0812 | 07/25/23 | 07/25/23 | EPA 9045D | I-03 |

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

BG05@18-19'
2306058-31 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/02/23 11:04**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 1.06 | 0.200 | mg/kg dry | 1 | BGF0318 | 06/08/23 | 06/09/23 | EPA 6020B | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/23 11:04**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | Units | | | | | | |
| % Solids | 85.2 | | % | 1 | BGF0375 | 06/09/23 | 06/09/23 | Calculation | |

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

Date Sampled: **06/02/23 11:04**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| pH | 8.22 | | pH Units | 1 | BGG0812 | 07/25/23 | 07/25/23 | EPA 9045D | I-03 |

Summit Scientific

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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGF0185 - EPA 5030 Soil MS

Blank (BGF0185-BLK1)

Prepared & Analyzed: 06/06/23

| | | | | | | | | | | |
|---|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene | ND | 0.0020 | mg/kg | | | | | | | |
| Toluene | ND | 0.0050 | " | | | | | | | |
| Ethylbenzene | ND | 0.0050 | " | | | | | | | |
| Xylenes (total) | ND | 0.010 | " | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | " | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | " | | | | | | | |
| Naphthalene | ND | 0.0038 | " | | | | | | | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | | | | | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0582 | | " | 0.0400 | | 146 | 50-150 | | | |
| <i>Surrogate: Toluene-d8</i> | 0.0372 | | " | 0.0400 | | 93.1 | 50-150 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0429 | | " | 0.0400 | | 107 | 50-150 | | | |

LCS (BGF0185-BS1)

Prepared & Analyzed: 06/06/23

| | | | | | | | | | | |
|---|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene | 0.0704 | 0.0020 | mg/kg | 0.0750 | | 93.9 | 70-130 | | | |
| Toluene | 0.0813 | 0.0050 | " | 0.0750 | | 108 | 70-130 | | | |
| Ethylbenzene | 0.0797 | 0.0050 | " | 0.0750 | | 106 | 70-130 | | | |
| m,p-Xylene | 0.142 | 0.010 | " | 0.150 | | 94.6 | 70-130 | | | |
| o-Xylene | 0.0696 | 0.0050 | " | 0.0750 | | 92.8 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.0619 | 0.0050 | " | 0.0750 | | 82.5 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.0770 | 0.0050 | " | 0.0750 | | 103 | 70-130 | | | |
| Naphthalene | 0.0597 | 0.0038 | " | 0.0750 | | 79.6 | 70-130 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0514 | | " | 0.0400 | | 129 | 50-150 | | | |
| <i>Surrogate: Toluene-d8</i> | 0.0382 | | " | 0.0400 | | 95.6 | 50-150 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0459 | | " | 0.0400 | | 115 | 50-150 | | | |

Matrix Spike (BGF0185-MS1)

Source: 2306023-01

Prepared: 06/06/23 Analyzed: 06/07/23

| | | | | | | | | | | |
|---|--------|--------|-------|--------|----|------|--------|--|--|--|
| Benzene | 0.0667 | 0.0020 | mg/kg | 0.0750 | ND | 88.9 | 70-130 | | | |
| Toluene | 0.0806 | 0.0050 | " | 0.0750 | ND | 107 | 70-130 | | | |
| Ethylbenzene | 0.0786 | 0.0050 | " | 0.0750 | ND | 105 | 70-130 | | | |
| m,p-Xylene | 0.140 | 0.010 | " | 0.150 | ND | 93.4 | 70-130 | | | |
| o-Xylene | 0.0690 | 0.0050 | " | 0.0750 | ND | 92.0 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.0614 | 0.0050 | " | 0.0750 | ND | 81.9 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.0766 | 0.0050 | " | 0.0750 | ND | 102 | 70-130 | | | |
| Naphthalene | 0.0591 | 0.0038 | " | 0.0750 | ND | 78.8 | 70-130 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0496 | | " | 0.0400 | | 124 | 50-150 | | | |
| <i>Surrogate: Toluene-d8</i> | 0.0388 | | " | 0.0400 | | 96.9 | 50-150 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0450 | | " | 0.0400 | | 113 | 50-150 | | | |

Summit Scientific

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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGF0185 - EPA 5030 Soil MS

| Matrix Spike Dup (BGF0185-MSD1) | Source: 2306023-01 | | | Prepared: 06/06/23 Analyzed: 06/07/23 | | | | | | |
|----------------------------------|--------------------|--------|-------|---------------------------------------|----|------|--------|------|----|--|
| Benzene | 0.0708 | 0.0020 | mg/kg | 0.0750 | ND | 94.4 | 70-130 | 5.98 | 30 | |
| Toluene | 0.0844 | 0.0050 | " | 0.0750 | ND | 113 | 70-130 | 4.62 | 30 | |
| Ethylbenzene | 0.0902 | 0.0050 | " | 0.0750 | ND | 120 | 70-130 | 13.8 | 30 | |
| m,p-Xylene | 0.161 | 0.010 | " | 0.150 | ND | 107 | 70-130 | 13.6 | 30 | |
| o-Xylene | 0.0788 | 0.0050 | " | 0.0750 | ND | 105 | 70-130 | 13.2 | 30 | |
| 1,2,4-Trimethylbenzene | 0.0709 | 0.0050 | " | 0.0750 | ND | 94.5 | 70-130 | 14.3 | 30 | |
| 1,3,5-Trimethylbenzene | 0.0879 | 0.0050 | " | 0.0750 | ND | 117 | 70-130 | 13.8 | 30 | |
| Naphthalene | 0.0744 | 0.0038 | " | 0.0750 | ND | 99.2 | 70-130 | 23.0 | 30 | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0500 | | " | 0.0400 | | 125 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0372 | | " | 0.0400 | | 93.0 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0431 | | " | 0.0400 | | 108 | 50-150 | | | |

Summit Scientific

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGF0191 - EPA 3550A

Blank (BGF0191-BLK1)

Prepared: 06/06/23 Analyzed: 06/07/23

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|--|------|--------|--|--|--|--|
| C10-C28 (DRO) | ND | 50 | mg/kg | | | | | | | | |
| C28-C36 (ORO) | ND | 50 | " | | | | | | | | |
| Surrogate: <i>o</i> -Terphenyl | 11.2 | | " | 12.5 | | 89.5 | 30-150 | | | | |

LCS (BGF0191-BS1)

Prepared: 06/06/23 Analyzed: 06/07/23

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|--|------|--------|--|--|--|--|
| C10-C28 (DRO) | 379 | 50 | mg/kg | 500 | | 75.7 | 70-130 | | | | |
| Surrogate: <i>o</i> -Terphenyl | 11.7 | | " | 12.5 | | 93.9 | 30-150 | | | | |

Matrix Spike (BGF0191-MS1)

Source: 2306023-01

Prepared: 06/06/23 Analyzed: 06/07/23

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|------|------|--------|--|--|--|--|
| C10-C28 (DRO) | 363 | 50 | mg/kg | 500 | 11.9 | 70.2 | 70-130 | | | | |
| Surrogate: <i>o</i> -Terphenyl | 11.3 | | " | 12.5 | | 90.3 | 30-150 | | | | |

Matrix Spike Dup (BGF0191-MSD1)

Source: 2306023-01

Prepared: 06/06/23 Analyzed: 06/07/23

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|------|------|--------|------|----|--|--|
| C10-C28 (DRO) | 376 | 50 | mg/kg | 500 | 11.9 | 72.8 | 70-130 | 3.58 | 20 | | |
| Surrogate: <i>o</i> -Terphenyl | 10.9 | | " | 12.5 | | 87.1 | 30-150 | | | | |

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGF0243 - EPA 5030 Soil MS

Blank (BGF0243-BLK1)

Prepared & Analyzed: 06/07/23

| | | | | | | | | | | |
|---|---------------|---------|----------|---------------|--|-------------|---------------|--|--|--|
| Acenaphthene | ND | 0.00500 | mg/kg | | | | | | | |
| Anthracene | ND | 0.00500 | " | | | | | | | |
| Benzo (a) anthracene | ND | 0.00500 | " | | | | | | | |
| Benzo (a) pyrene | ND | 0.00500 | " | | | | | | | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | | | | | | | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | | | | | | | |
| Chrysene | ND | 0.00500 | " | | | | | | | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | | | | | | | |
| Fluoranthene | ND | 0.00500 | " | | | | | | | |
| Fluorene | ND | 0.00500 | " | | | | | | | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | | | | | | | |
| Pyrene | ND | 0.00500 | " | | | | | | | |
| 1-Methylnaphthalene | ND | 0.00500 | " | | | | | | | |
| 2-Methylnaphthalene | ND | 0.00500 | " | | | | | | | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0299</i> | | <i>"</i> | <i>0.0333</i> | | <i>89.8</i> | <i>40-150</i> | | | |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0306</i> | | <i>"</i> | <i>0.0333</i> | | <i>91.7</i> | <i>40-150</i> | | | |

LCS (BGF0243-BS1)

Prepared & Analyzed: 06/07/23

| | | | | | | |
|---|---------------|---------|----------|---------------|-------------|---------------|
| Acenaphthene | 0.0301 | 0.00500 | mg/kg | 0.0333 | 90.2 | 31-137 |
| Anthracene | 0.0276 | 0.00500 | " | 0.0333 | 82.7 | 30-120 |
| Benzo (a) anthracene | 0.0233 | 0.00500 | " | 0.0333 | 70.0 | 30-120 |
| Benzo (a) pyrene | 0.0311 | 0.00500 | " | 0.0333 | 93.3 | 30-120 |
| Benzo (b) fluoranthene | 0.0285 | 0.00500 | " | 0.0333 | 85.6 | 30-120 |
| Benzo (k) fluoranthene | 0.0289 | 0.00500 | " | 0.0333 | 86.7 | 30-120 |
| Chrysene | 0.0314 | 0.00500 | " | 0.0333 | 94.1 | 30-120 |
| Dibenz (a,h) anthracene | 0.0258 | 0.00500 | " | 0.0333 | 77.5 | 30-120 |
| Fluoranthene | 0.0275 | 0.00500 | " | 0.0333 | 82.6 | 30-120 |
| Fluorene | 0.0282 | 0.00500 | " | 0.0333 | 84.7 | 30-120 |
| Indeno (1,2,3-cd) pyrene | 0.0266 | 0.00500 | " | 0.0333 | 79.9 | 30-120 |
| Pyrene | 0.0346 | 0.00500 | " | 0.0333 | 104 | 35-142 |
| 1-Methylnaphthalene | 0.0209 | 0.00500 | " | 0.0333 | 62.8 | 35-142 |
| 2-Methylnaphthalene | 0.0252 | 0.00500 | " | 0.0333 | 75.6 | 35-142 |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0283</i> | | <i>"</i> | <i>0.0333</i> | <i>85.0</i> | <i>40-150</i> |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0285</i> | | <i>"</i> | <i>0.0333</i> | <i>85.4</i> | <i>40-150</i> |

Summit Scientific

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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGF0243 - EPA 5030 Soil MS

| Matrix Spike (BGF0243-MS1) | Source: 2306054-01 | | | Prepared & Analyzed: 06/07/23 | | | | | | |
|---|---------------------------|---------|----------|--|----|-------------|---------------|--|--|--|
| Acenaphthene | 0.0227 | 0.00500 | mg/kg | 0.0333 | ND | 68.0 | 31-137 | | | |
| Anthracene | 0.0239 | 0.00500 | " | 0.0333 | ND | 71.6 | 30-120 | | | |
| Benzo (a) anthracene | 0.0232 | 0.00500 | " | 0.0333 | ND | 69.5 | 30-120 | | | |
| Benzo (a) pyrene | 0.0225 | 0.00500 | " | 0.0333 | ND | 67.5 | 30-120 | | | |
| Benzo (b) fluoranthene | 0.0201 | 0.00500 | " | 0.0333 | ND | 60.4 | 30-120 | | | |
| Benzo (k) fluoranthene | 0.0219 | 0.00500 | " | 0.0333 | ND | 65.8 | 30-120 | | | |
| Chrysene | 0.0247 | 0.00500 | " | 0.0333 | ND | 74.0 | 30-120 | | | |
| Dibenz (a,h) anthracene | 0.0165 | 0.00500 | " | 0.0333 | ND | 49.6 | 30-120 | | | |
| Fluoranthene | 0.0229 | 0.00500 | " | 0.0333 | ND | 68.8 | 30-120 | | | |
| Fluorene | 0.0224 | 0.00500 | " | 0.0333 | ND | 67.1 | 30-120 | | | |
| Indeno (1,2,3-cd) pyrene | 0.0151 | 0.00500 | " | 0.0333 | ND | 45.3 | 30-120 | | | |
| Pyrene | 0.0253 | 0.00500 | " | 0.0333 | ND | 75.9 | 35-142 | | | |
| 1-Methylnaphthalene | 0.0203 | 0.00500 | " | 0.0333 | ND | 60.8 | 15-130 | | | |
| 2-Methylnaphthalene | 0.0222 | 0.00500 | " | 0.0333 | ND | 66.6 | 15-130 | | | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0249</i> | | <i>"</i> | <i>0.0333</i> | | <i>74.8</i> | <i>40-150</i> | | | |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0256</i> | | <i>"</i> | <i>0.0333</i> | | <i>76.8</i> | <i>40-150</i> | | | |

| Matrix Spike Dup (BGF0243-MSD1) | Source: 2306054-01 | | | Prepared & Analyzed: 06/07/23 | | | | | | |
|---|---------------------------|---------|----------|--|----|-------------|---------------|-------|----|--|
| Acenaphthene | 0.0196 | 0.00500 | mg/kg | 0.0333 | ND | 58.7 | 31-137 | 14.6 | 30 | |
| Anthracene | 0.0200 | 0.00500 | " | 0.0333 | ND | 60.1 | 30-120 | 17.5 | 30 | |
| Benzo (a) anthracene | 0.0202 | 0.00500 | " | 0.0333 | ND | 60.5 | 30-120 | 13.9 | 30 | |
| Benzo (a) pyrene | 0.0195 | 0.00500 | " | 0.0333 | ND | 58.5 | 30-120 | 14.2 | 30 | |
| Benzo (b) fluoranthene | 0.0174 | 0.00500 | " | 0.0333 | ND | 52.3 | 30-120 | 14.4 | 30 | |
| Benzo (k) fluoranthene | 0.0180 | 0.00500 | " | 0.0333 | ND | 54.1 | 30-120 | 19.6 | 30 | |
| Chrysene | 0.0205 | 0.00500 | " | 0.0333 | ND | 61.6 | 30-120 | 18.3 | 30 | |
| Dibenz (a,h) anthracene | 0.0167 | 0.00500 | " | 0.0333 | ND | 50.1 | 30-120 | 0.991 | 30 | |
| Fluoranthene | 0.0189 | 0.00500 | " | 0.0333 | ND | 56.8 | 30-120 | 19.0 | 30 | |
| Fluorene | 0.0195 | 0.00500 | " | 0.0333 | ND | 58.5 | 30-120 | 13.6 | 30 | |
| Indeno (1,2,3-cd) pyrene | 0.0158 | 0.00500 | " | 0.0333 | ND | 47.4 | 30-120 | 4.48 | 30 | |
| Pyrene | 0.0212 | 0.00500 | " | 0.0333 | ND | 63.7 | 35-142 | 17.5 | 30 | |
| 1-Methylnaphthalene | 0.0168 | 0.00500 | " | 0.0333 | ND | 50.3 | 15-130 | 19.0 | 50 | |
| 2-Methylnaphthalene | 0.0195 | 0.00500 | " | 0.0333 | ND | 58.6 | 15-130 | 12.7 | 50 | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0214</i> | | <i>"</i> | <i>0.0333</i> | | <i>64.1</i> | <i>40-150</i> | | | |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0219</i> | | <i>"</i> | <i>0.0333</i> | | <i>65.7</i> | <i>40-150</i> | | | |

Summit Scientific

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



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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

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

Batch BGF0384 - EPA 3050B

Blank (BGF0384-BLK1)

Prepared: 06/09/23 Analyzed: 06/16/23

Boron ND 0.0100 mg/L

LCS (BGF0384-BS1)

Prepared: 06/09/23 Analyzed: 06/16/23

Boron 5.76 0.0100 mg/L 5.00 115 80-120

Duplicate (BGF0384-DUP1)

Source: 2306048-21

Prepared: 06/09/23 Analyzed: 06/16/23

Boron 0.0541 0.0100 mg/L 0.0572 5.48 20

Matrix Spike (BGF0384-MS1)

Source: 2306048-21

Prepared: 06/09/23 Analyzed: 06/16/23

Boron 5.64 0.0100 mg/L 5.00 0.0572 112 75-125

Matrix Spike Dup (BGF0384-MSD1)

Source: 2306048-21

Prepared: 06/09/23 Analyzed: 06/16/23

Boron 5.67 0.0100 mg/L 5.00 0.0572 112 75-125 0.411 25

Summit Scientific

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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGF0299 - EPA 3050B

Blank (BGF0299-BLK1)

Prepared: 06/08/23 Analyzed: 06/13/23

Arsenic ND 0.200 mg/kg wet

LCS (BGF0299-BS1)

Prepared: 06/08/23 Analyzed: 06/13/23

Arsenic 36.4 0.200 mg/kg wet 40.0 91.0 80-120

Duplicate (BGF0299-DUP1)

Source: 2306048-26

Prepared: 06/08/23 Analyzed: 06/13/23

Arsenic 1.15 0.200 mg/kg dry 1.14 1.61 20

Matrix Spike (BGF0299-MS1)

Source: 2306048-26

Prepared: 06/08/23 Analyzed: 06/13/23

Arsenic 34.9 0.200 mg/kg dry 41.9 1.14 80.7 75-125

Matrix Spike Dup (BGF0299-MSD1)

Source: 2306048-26

Prepared: 06/08/23 Analyzed: 06/13/23

Arsenic 38.5 0.200 mg/kg dry 41.9 1.14 89.2 75-125 9.66 25

Batch BGF0318 - EPA 3050B

Blank (BGF0318-BLK1)

Prepared: 06/08/23 Analyzed: 06/09/23

Arsenic ND 0.200 mg/kg wet

LCS (BGF0318-BS1)

Prepared: 06/08/23 Analyzed: 06/09/23

Arsenic 36.9 0.200 mg/kg wet 40.0 92.3 80-120

Duplicate (BGF0318-DUP1)

Source: 2305285-04

Prepared: 06/08/23 Analyzed: 06/09/23

Arsenic 0.963 0.200 mg/kg dry 0.810 17.2 20

Matrix Spike (BGF0318-MS1)

Source: 2305285-04

Prepared: 06/08/23 Analyzed: 06/09/23

Arsenic 11.6 0.200 mg/kg dry 46.6 0.810 23.2 75-125 QM-07

Summit Scientific

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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
 Project Manager: Jacob Whritenour

Reported:
 07/26/23 13:42

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGF0318 - EPA 3050B

Matrix Spike Dup (BGF0318-MSD1)

Source: 2305285-04

Prepared: 06/08/23 Analyzed: 06/09/23

| | | | | | | | | | | |
|---------|------|-------|-----------|------|-------|------|--------|------|----|-------|
| Arsenic | 12.4 | 0.200 | mg/kg dry | 46.6 | 0.810 | 24.8 | 75-125 | 6.40 | 25 | QM-07 |
|---------|------|-------|-----------|------|-------|------|--------|------|----|-------|

Summit Scientific

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



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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BGF0392 - General Preparation

Blank (BGF0392-BLK1)

Prepared: 06/10/23 Analyzed: 06/16/23

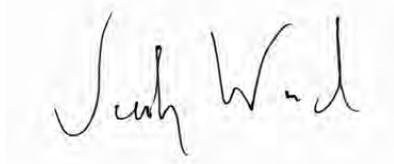
| | | | | | | | | | | |
|-----------|----|--------|----------|--|--|--|--|--|--|--|
| Calcium | ND | 0.0500 | mg/L wet | | | | | | | |
| Magnesium | ND | 0.0500 | " | | | | | | | |
| Sodium | ND | 0.0500 | " | | | | | | | |

LCS (BGF0392-BS1)

Prepared: 06/10/23 Analyzed: 06/16/23

| | | | | | | | | | | |
|-----------|------|--------|----------|------|--|-----|--------|--|--|--|
| Calcium | 6.13 | 0.0500 | mg/L wet | 5.00 | | 123 | 70-130 | | | |
| Magnesium | 5.49 | 0.0500 | " | 5.00 | | 110 | 70-130 | | | |
| Sodium | 5.45 | 0.0500 | " | 5.00 | | 109 | 70-130 | | | |

Summit Scientific



The results in 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: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

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

Summit Scientific

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

Batch BGF0375 - General Preparation

Duplicate (BGF0375-DUP1)

Source: 2306058-02

Prepared & Analyzed: 06/09/23

| | | | | | | | | | | |
|----------|------|--|---|--|------|--|--|-------|----|--|
| % Solids | 87.0 | | % | | 86.9 | | | 0.165 | 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: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BGF0399 - General Preparation

Blank (BGF0399-BLK1)

Prepared & Analyzed: 06/11/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGF0399-BS1)

Prepared & Analyzed: 06/11/23

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 101 95-105

Duplicate (BGF0399-DUP1)

Source: 2306054-01

Prepared & Analyzed: 06/11/23

Specific Conductance (EC) 6.23 0.0100 mmhos/cm 6.33 1.70 20

Summit Scientific

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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

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

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

Batch BGF0315 - General Preparation

| LCS (BGF0315-BS1) | | Prepared & Analyzed: 06/08/23 | | | | | | | | |
|--------------------------|------|-------------------------------|----------|-------------------------------|------|------|--------|-------|----|--|
| pH | 9.15 | | pH Units | 9.18 | | 99.7 | 95-105 | | | |
| Duplicate (BGF0315-DUP1) | | Source: 2305166-02 | | Prepared & Analyzed: 06/08/23 | | | | | | |
| pH | 8.17 | | pH Units | | 8.15 | | | 0.245 | 20 | |

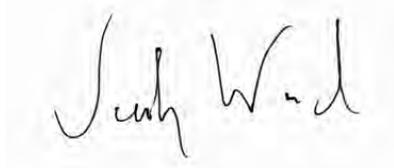
Batch BGF0398 - General Preparation

| LCS (BGF0398-BS1) | | Prepared & Analyzed: 06/11/23 | | | | | | | | |
|--------------------------|------|-------------------------------|----------|-------------------------------|------|------|--------|------|----|--|
| pH | 9.11 | | pH Units | 9.18 | | 99.2 | 95-105 | | | |
| Duplicate (BGF0398-DUP1) | | Source: 2306054-01 | | Prepared & Analyzed: 06/11/23 | | | | | | |
| pH | 7.96 | | pH Units | | 8.05 | | | 1.12 | 20 | |

Batch BGG0812 - General Preparation

| LCS (BGG0812-BS1) | | Prepared & Analyzed: 07/25/23 | | | | | | | | |
|--------------------------|------|-------------------------------|----------|-------------------------------|------|------|--------|-------|----|--|
| pH | 9.02 | | pH Units | 9.18 | | 98.3 | 95-105 | | | |
| Duplicate (BGG0812-DUP1) | | Source: 2306058-18 | | Prepared & Analyzed: 07/25/23 | | | | | | |
| pH | 7.81 | | pH Units | | 7.80 | | | 0.128 | 20 | |

Summit Scientific



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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
07/26/23 13:42

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- I-03 This sample was recieved and analyzed outside of the recommended holding time.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

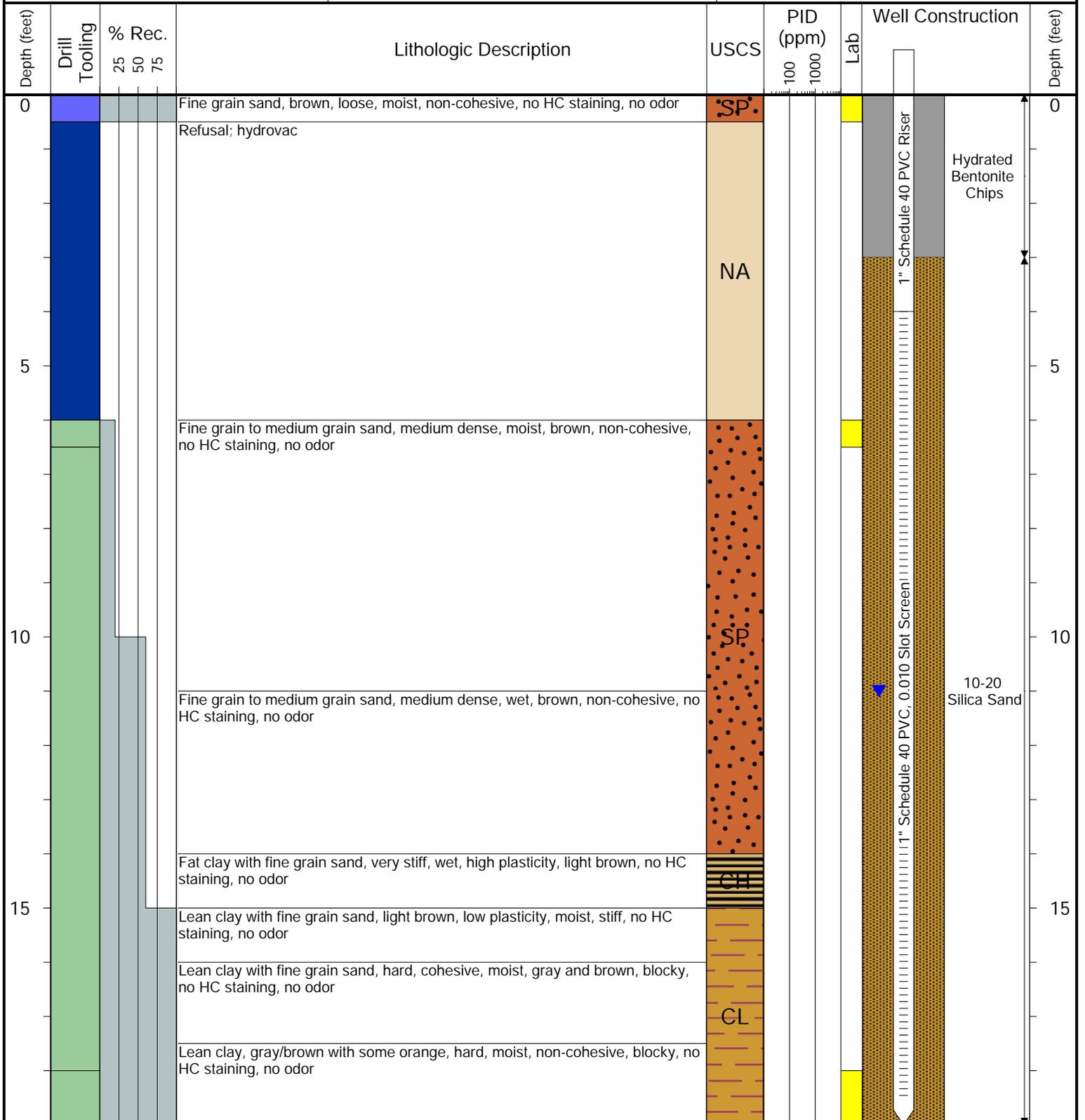
ATTACHMENT B

BORING LOGS



6855 W. 119th Ave.
Broomfield, CO 80020

| | |
|---|--------------------------------------|
| CLIENT: Noble | Thompson 28-10 Facility |
| LOGGED BY: Dennis Gray | |
| PROJECT MANAGER: Jake Whritenour | BORING / WELL ID: BH01 |
| DRILLING CONTRACTOR: Tasman | |
| DRILLING EQUIPMENT: AMS PowerProbe | LOCATION: Weld County, Colorado |
| DRILL BIT SIZE (INCHES): 2.375" | LATITUDE (NAD 83): 40.280700816 |
| DATE STARTED - COMPLETED: 6/2/23 - 6/2/23 | LONGITUDE (NAD 83): -104.55962025 |
| TOTAL WELL DEPTH (FT. BGS): 19 | CASING ELEVATION (FT. AMSL): 4741.45 |
| DEPTH TO WATER (FT. BGS): 11' ▼ | GROUND ELEVATION (FT. AMSL): 4741.58 |



Drilling / Sample Method:

- Macro-Core
- Hydrovac
- Hand Auger
- Hollow Stem Auger

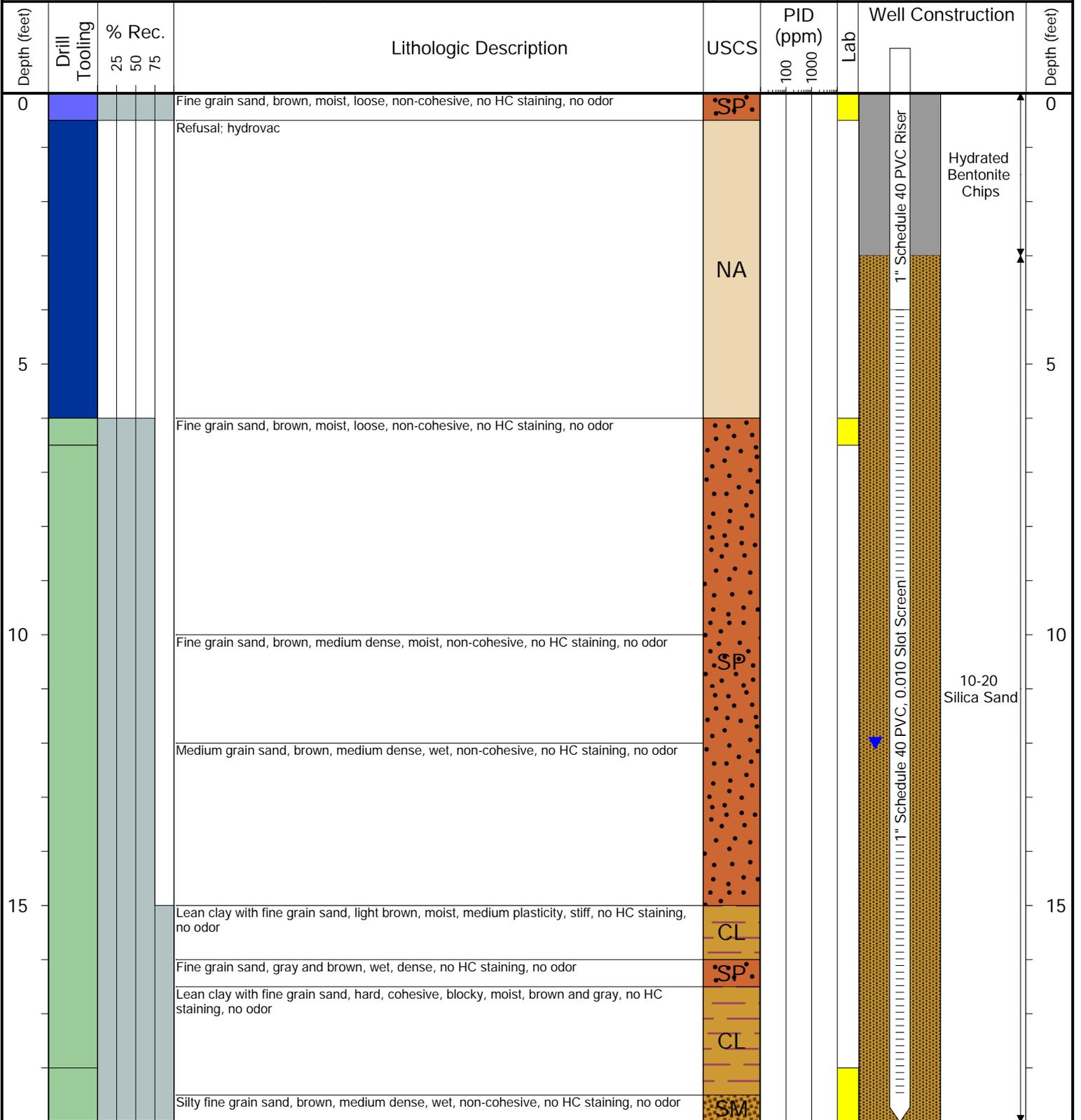
Laboratory Sample Types:

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



6855 W. 119th Ave.
Broomfield, CO 80020

| | |
|---|--------------------------------------|
| CLIENT: Noble | Thompson 28-10 Facility |
| LOGGED BY: Dennis Gray | |
| PROJECT MANAGER: Jake Whritenour | BORING / WELL ID: BH02 |
| DRILLING CONTRACTOR: Tasman | |
| DRILLING EQUIPMENT: AMS PowerProbe | LOCATION: Weld County, Colorado |
| DRILL BIT SIZE (INCHES): 2.375" | LATITUDE (NAD 83): 40.2807631243 |
| DATE STARTED - COMPLETED: 6/2/23 - 6/2/23 | LONGITUDE (NAD 83): -104.559620222 |
| TOTAL WELL DEPTH (FT. BGS): 19 | CASING ELEVATION (FT. AMSL): 4742.57 |
| DEPTH TO WATER (FT. BGS): 12' ▼ | GROUND ELEVATION (FT. AMSL): 4742.83 |



Drilling / Sample Method:

- Macro-Core
- Hydrovac
- Hand Auger
- Hollow Stem Auger

Laboratory Sample Types:

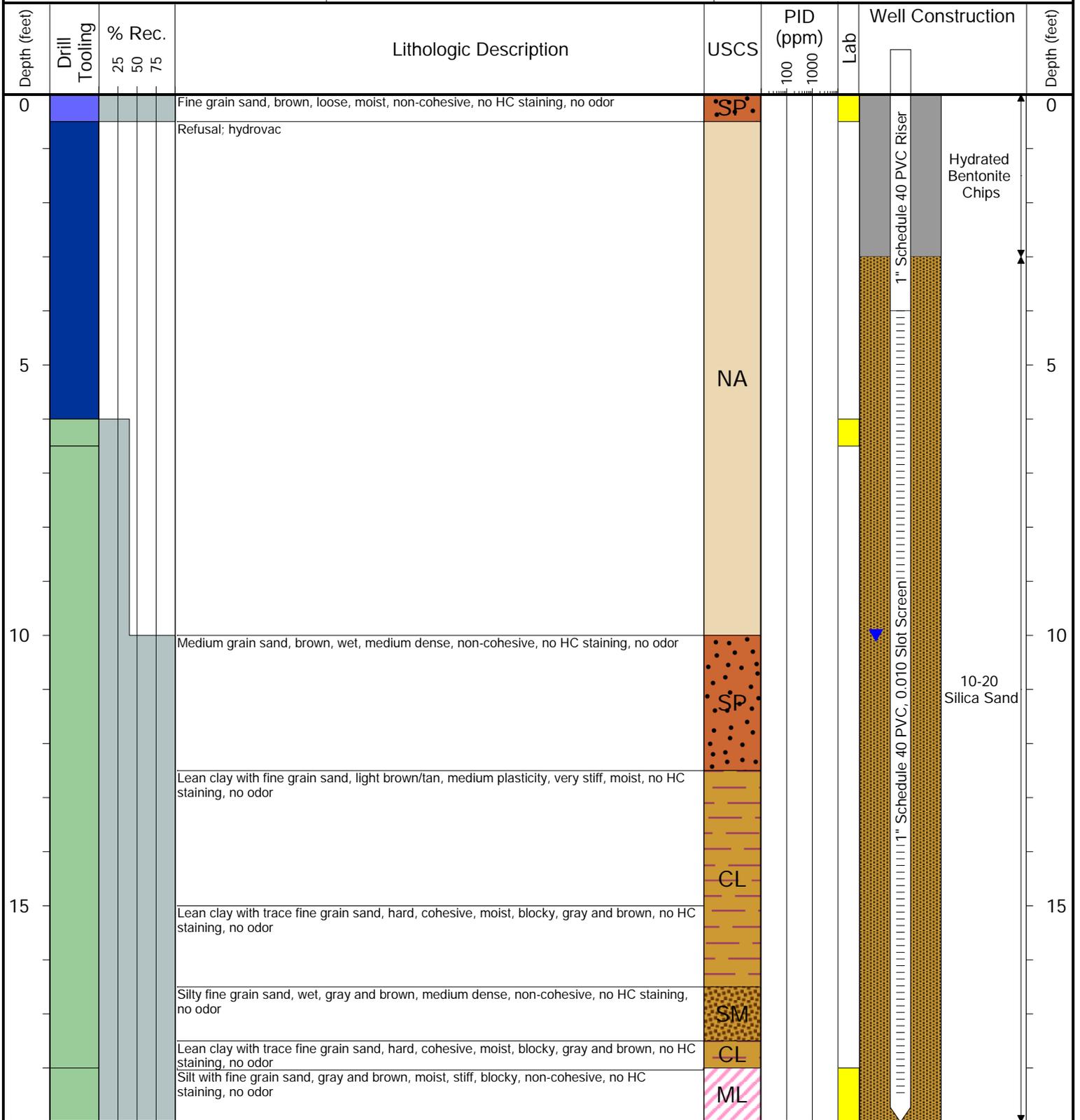
- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



6855 W. 119th Ave.
Broomfield, CO 80020

CLIENT: Noble
 LOGGED BY: Dennis Gray
 PROJECT MANAGER: Jake Whritenour
 DRILLING CONTRACTOR: Tasman
 DRILLING EQUIPMENT: AMS PowerProbe
 DRILL BIT SIZE (INCHES): 2.375"
 DATE STARTED - COMPLETED: 6/2/23 - 6/2/23
 TOTAL WELL DEPTH (FT. BGS): 19
 DEPTH TO WATER (FT. BGS): 10'

Thompson 28-10 Facility
BORING / WELL ID: BH03
 LOCATION: Weld County, Colorado
 LATITUDE (NAD 83): 40.2807005968
 LONGITUDE (NAD 83): -104.559538149
 CASING ELEVATION (FT. AMSL): 4740.56
 GROUND ELEVATION (FT. AMSL): 4740.73



Drilling / Sample Method:

- Macro-Core
- Hydrovac
- Hand Auger
- Hollow Stem Auger

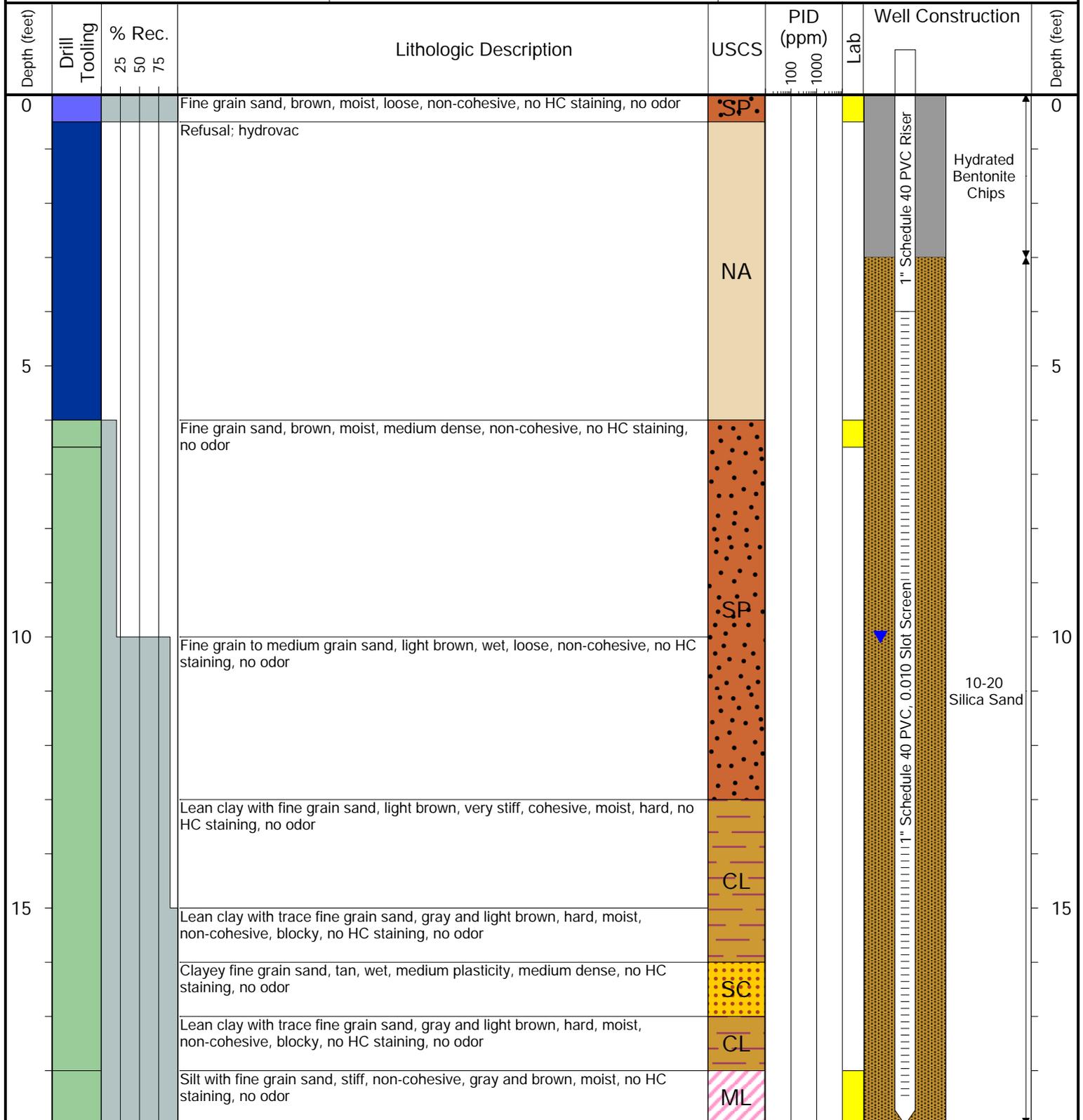
Laboratory Sample Types:

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



6855 W. 119th Ave.
Broomfield, CO 80020

| | |
|---|--------------------------------------|
| CLIENT: Noble | Thompson 28-10 Facility |
| LOGGED BY: Dennis Gray | |
| PROJECT MANAGER: Jake Whritenour | BORING / WELL ID: BH04 |
| DRILLING CONTRACTOR: Tasman | |
| DRILLING EQUIPMENT: AMS PowerProbe | LOCATION: Weld County, Colorado |
| DRILL BIT SIZE (INCHES): 2.375" | LATITUDE (NAD 83): 40.2806394075 |
| DATE STARTED - COMPLETED: 6/2/23 - 6/2/23 | LONGITUDE (NAD 83): -104.55961978 |
| TOTAL WELL DEPTH (FT. BGS): 19 | CASING ELEVATION (FT. AMSL): 4740.18 |
| DEPTH TO WATER (FT. BGS): 10' ▼ | GROUND ELEVATION (FT. AMSL): 4740.34 |



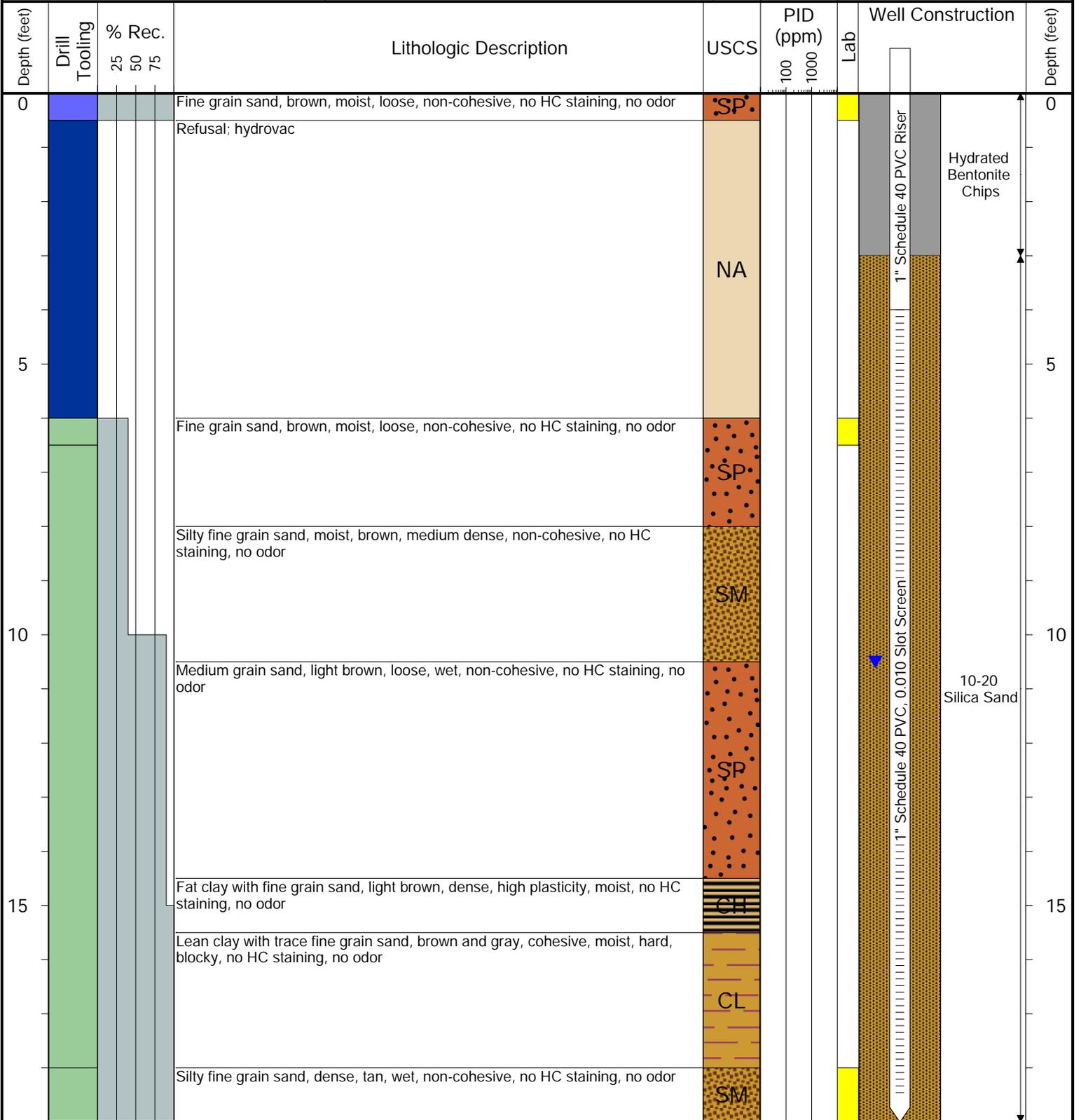
Drilling / Sample Method:

- Macro-Core
- Hydrovac
- Geotechnical Lab
- Analytical Chemistry Lab
- Hand Auger
- Geotechnical & Analytical Chemistry Lab



6855 W. 119th Ave.
Broomfield, CO 80020

| | |
|---|--------------------------------------|
| CLIENT: Noble | Thompson 28-10 Facility |
| LOGGED BY: Dennis Gray | |
| PROJECT MANAGER: Jake Whritenour | BORING / WELL ID: BH05 |
| DRILLING CONTRACTOR: Tasman | |
| DRILLING EQUIPMENT: AMS PowerProbe | LOCATION: Weld County, Colorado |
| DRILL BIT SIZE (INCHES): 2.375" | LATITUDE (NAD 83): 40.2807012222 |
| DATE STARTED - COMPLETED: 6/2/23 - 6/2/23 | LONGITUDE (NAD 83): -104.55970248 |
| TOTAL WELL DEPTH (FT. BGS): 19 | CASING ELEVATION (FT. AMSL): 4741.49 |
| DEPTH TO WATER (FT. BGS): 10.5' ▼ | GROUND ELEVATION (FT. AMSL): 4741.65 |



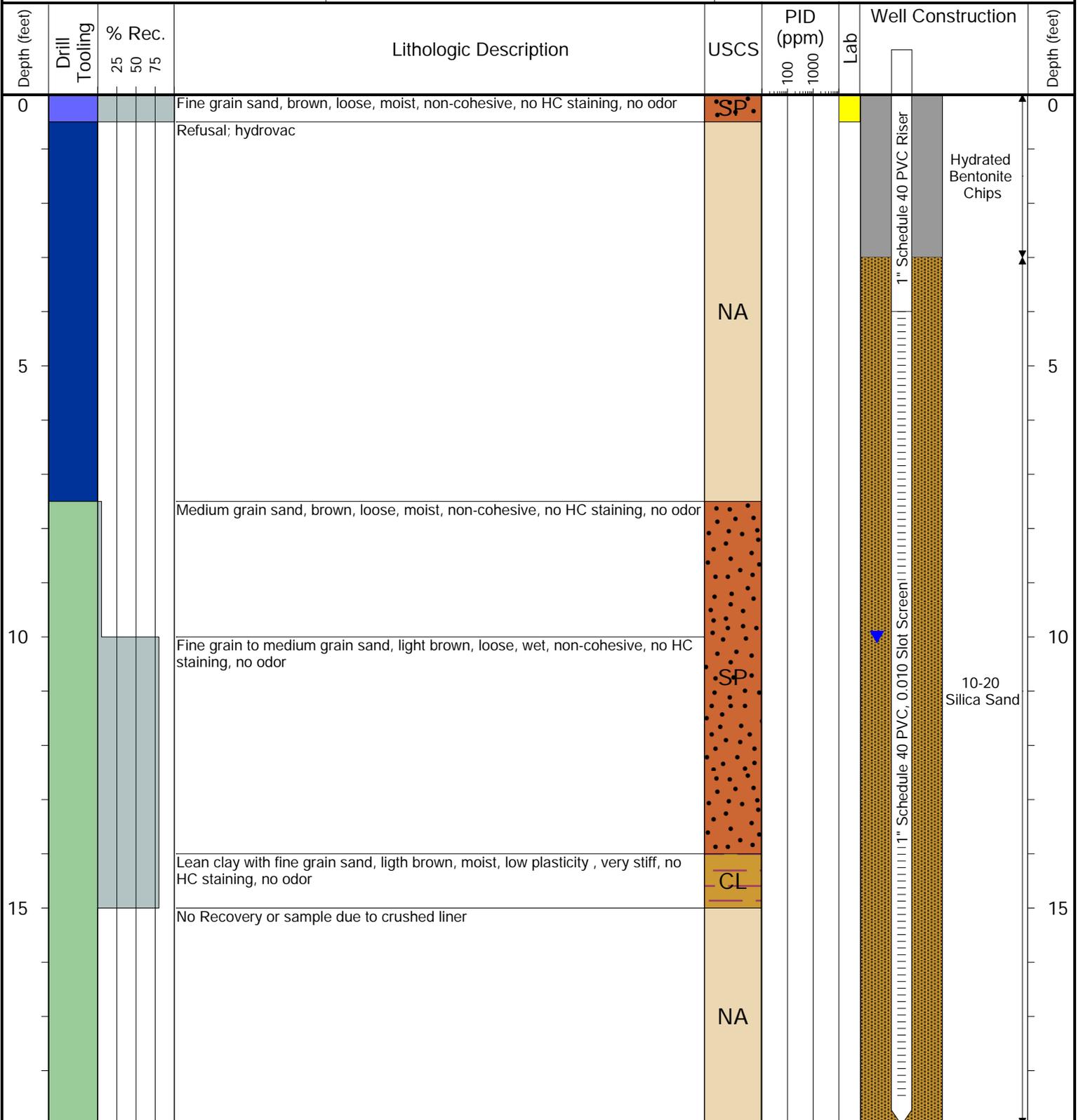
| | | | | |
|----------------------------------|------------|---------------------------------|---|--|
| Drilling / Sample Method: | | Laboratory Sample Types: | | |
| Macro-Core | Hydrovac | Geotechnical Lab | Geotechnical & Analytical Chemistry Lab | |
| Hollow Stem Auger | Hand Auger | Analytical Chemistry Lab | | |



6855 W. 119th Ave.
Broomfield, CO 80020

CLIENT: Noble
 LOGGED BY: Dennis Gray
 PROJECT MANAGER: Jake Whritenour
 DRILLING CONTRACTOR: Tasman
 DRILLING EQUIPMENT: AMS PowerProbe
 DRILL BIT SIZE (INCHES): 2.375"
 DATE STARTED - COMPLETED: 6/2/23 - 6/2/23
 TOTAL WELL DEPTH (FT. BGS): 19
 DEPTH TO WATER (FT. BGS): 10'

Thompson 28-10 Facility
BORING / WELL ID: BH06
 LOCATION: Weld County, Colorado
 LATITUDE (NAD 83): 40.2806392506
 LONGITUDE (NAD 83): -104.559703816
 CASING ELEVATION (FT. AMSL): 4740.28
 GROUND ELEVATION (FT. AMSL): 4740.51



Drilling / Sample Method:

- Macro-Core
- Hydrovac
- Hollow Stem Auger
- Hand Auger

Laboratory Sample Types:

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

ATTACHMENT C

LABORATORY GROUNDWATER ANALYTICAL DATA REPORTS

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

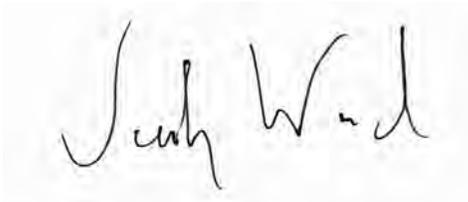
303.277.9310

June 26, 2023

Jacob Whritenour
Tasman Geosciences
6855 W. 119th Ave.
Broomfield, CO 80020
RE: Noble - Thompson 28-10
Work Order #2306387

Enclosed are the results of analyses for samples received by Summit Scientific on 06/20/23 17:44. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury
President



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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN

Project Manager: Jacob Whritenour

Reported:
06/26/23 10:55

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| BH01 | 2306387-01 | Water | 06/19/23 12:52 | 06/20/23 17:44 |
| BH02 | 2306387-02 | Water | 06/19/23 12:14 | 06/20/23 17:44 |
| BH03 | 2306387-03 | Water | 06/19/23 12:15 | 06/20/23 17:44 |
| BH04 | 2306387-04 | Water | 06/19/23 12:33 | 06/20/23 17:44 |
| BH05 | 2306387-05 | Water | 06/19/23 12:35 | 06/20/23 17:44 |
| BH06 | 2306387-06 | Water | 06/19/23 12:47 | 06/20/23 17:44 |

Summit Scientific

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SUMMIT SCIENTIFIC

4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

| | |
|---------|-------------|
| Lab ID | Page 1 of 1 |
| 2306387 | |

| | | | |
|---|-------------------------------------|--|--|
| Send Data To: | | Send Invoice To: | |
| Client: Noble / Tasman Inc. | Project Manager: Jake Whritenour | Company: Noble Energy, Inc. | |
| Address: 6855 W. 119th. Ave. | E-Mail: Jwhritenour@tasman-geo.com | Project Name/Location: <u>Thompson 28-10</u> | |
| City/State/Zip: Broomfield / CO / 80020 | | AFE#: | |
| Phone: 303-487-1228 | Project Name: <u>Thompson 28-10</u> | PO/Billing Codes: | |
| Sampler Name: Dalton Hagen | Project Number: N/A | Contact: Dan Peterson | |

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative | | | | Matrix | | | Analysis Requested | | | | | | | Special Instructions | | |
|----|--------------------|--------------|--------------|-----------------|--------------|------|------|-------|--------|------|----------------|--------------------|------|-------------|-----------|-----------|-----|----------|----------------------|---------|-------------------|
| | | | | | HCl | HNO3 | None | Other | Water | Soil | Air-Canister # | Other | BTEX | Naphthalene | 1,2,4-TMB | 1,3,5-TMB | TDS | Chloride | | Sulfate | PAH |
| 1 | BH01 | 6/19/23 | 1252 | 5 | 3 | | 2 | | X | | | | X | X | X | X | X | X | X | X | PAH list: 2-MN |
| 2 | BH02 | | 1214 | | | | | | | | | | | | | | | | | | |
| 3 | BH03 | | 1215 | | | | | | | | | | | | | | | | | | |
| 4 | BH04 | | 1233 | | | | | | | | | | | | | | | | | | |
| 5 | BH05 | | 1235 | | | | | | | | | | | | | | | | | | |
| 6 | BH06 | | 1247 | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | |
|---|--------------------------|--|-------------------------|-------------------|---------------|--------|
| Relinquished by:  | Date/Time: 6/19/23 1830 | Received by: Tasman Lockbox | Date/Time: 6/19/23 1830 | TAT Business Days | Field DO | Notes: |
| | | | | Same Day | Field EC | |
| Relinquished by: Tasman Lockbox | Date/Time: 6/20/23 1744 | Received by:  | Date/Time: 6/20/23 1744 | 1 Day | Field ORP | |
| | | | | 2 Days | Field pH | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 3 Days | Field Temp. | |
| | | | | Standard | X Field Turb. | |
| Temperature Upon Receipt: 8.3 | Corrected Temperature: 6 | IR gun #: | | HNO3 lot #: | | |

S₂

Sample Receipt Checklist

S2 Work Order# 2306387

Client: Noble Frisman Client Project ID: Thompson 28-10

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

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

Temp (°C) Thermometer #

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

Additional Comments (if any):

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

AB
Custodian Printed Name

6/20/23
Date/Time



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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
06/26/23 10:55

BH01
2306387-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/19/23 12:52**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 1.0 | | ug/l | 1 | BGF0765 | 06/21/23 | 06/22/23 | EPA 8260B | |
| Toluene | ND | 1.0 | | " | " | " | " | " | " | |
| Ethylbenzene | ND | 1.0 | | " | " | " | " | " | " | |
| Xylenes (total) | ND | 2.0 | | " | " | " | " | " | " | |
| Naphthalene | ND | 1.0 | | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | | " | " | " | " | " | " | |

Date Sampled: **06/19/23 12:52**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 13.8 | 104 % | | 23-173 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 14.1 | 106 % | | 20-170 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 12.9 | 96.8 % | | 21-167 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Date Sampled: **06/19/23 12:52**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------|--------|-----------|--|-------|----------|---------|----------|----------|---------------|-------|
| | | Limit | | | | | | | | |
| 2-Methylnaphthalene | ND | 0.500 | | ug/l | 1 | BGF0737 | 06/21/23 | 06/22/23 | EPA 8270D SIM | |

Date Sampled: **06/19/23 12:52**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 2-Methylnaphthalene-d10 | 1.58 | 78.9 % | | 40-150 | | " | " | " | " | |

Anions by EPA Method 300.0

Date Sampled: **06/19/23 12:52**

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

Summit Scientific

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



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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN

Project Manager: Jacob Whritenour

Reported:
06/26/23 10:55

BH01
2306387-01 (Water)

Summit Scientific

Anions by EPA Method 300.0

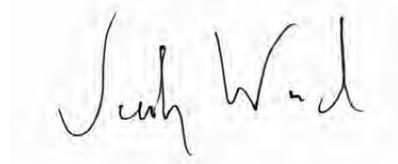
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method |
|----------|--------|-------|-------|----------|---------|----------|----------|-----------|
| Chloride | 246 | 12.0 | mg/L | 200 | BGF0742 | 06/21/23 | 06/21/23 | EPA 300.0 |
| Sulfate | 266 | 60.0 | " | " | " | " | " | " |

Total Dissolved Solids by SM2540C

Date Sampled: **06/19/23 12:52**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------------|------------|-----------------|-------|----------|---------|----------|----------|---------|-------|
| Total Dissolved Solids | 993 | 10.0 | mg/L | 1 | BGF0747 | 06/21/23 | 06/21/23 | SM2540C | |

Summit Scientific



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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
06/26/23 10:55

BH02
2306387-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/19/23 12:14**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 1.0 | | ug/l | 1 | BGF0765 | 06/21/23 | 06/22/23 | EPA 8260B | |
| Toluene | ND | 1.0 | | " | " | " | " | " | " | |
| Ethylbenzene | ND | 1.0 | | " | " | " | " | " | " | |
| Xylenes (total) | ND | 2.0 | | " | " | " | " | " | " | |
| Naphthalene | ND | 1.0 | | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | | " | " | " | " | " | " | |

Date Sampled: **06/19/23 12:14**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 13.8 | 103 % | | 23-173 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 14.3 | 107 % | | 20-170 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 13.1 | 98.4 % | | 21-167 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Date Sampled: **06/19/23 12:14**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------|--------|-----------|--|-------|----------|---------|----------|----------|---------------|-------|
| | | Limit | | | | | | | | |
| 2-Methylnaphthalene | ND | 0.500 | | ug/l | 1 | BGF0737 | 06/21/23 | 06/22/23 | EPA 8270D SIM | |

Date Sampled: **06/19/23 12:14**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 2-Methylnaphthalene-d10 | 1.54 | 77.0 % | | 40-150 | | " | " | " | " | |

Anions by EPA Method 300.0

Date Sampled: **06/19/23 12:14**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------|------------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Chloride | 289 | 12.0 | | mg/L | 200 | BGF0742 | 06/21/23 | 06/21/23 | EPA 300.0 | |

Summit Scientific

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

Project: Noble - Thompson 28-10
 Project Number: UWRWE-A2396-ABN
 Project Manager: Jacob Whritenour

Reported:
 06/26/23 10:55

BH02
2306387-02 (Water)

Summit Scientific

Anions by EPA Method 300.0

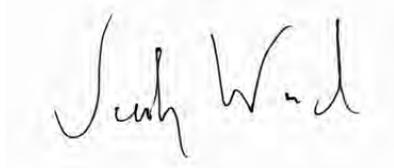
| | | | | | | | | |
|----------------|------------|------|------|-----|---------|----------|----------|-----------|
| Sulfate | 270 | 60.0 | mg/L | 200 | BGF0742 | 06/21/23 | 06/21/23 | EPA 300.0 |
|----------------|------------|------|------|-----|---------|----------|----------|-----------|

Total Dissolved Solids by SM2540C

Date Sampled: **06/19/23 12:14**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------------|-------------|-----------|-------|----------|---------|----------|----------|---------|-------|
| | | Limit | Units | | | | | | |
| Total Dissolved Solids | 1020 | 10.0 | mg/L | 1 | BGF0747 | 06/21/23 | 06/21/23 | SM2540C | |

Summit Scientific



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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
06/26/23 10:55

BH03
2306387-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/19/23 12:15**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 1.0 | | ug/l | 1 | BGF0765 | 06/21/23 | 06/22/23 | EPA 8260B | |
| Toluene | ND | 1.0 | | " | " | " | " | " | " | |
| Ethylbenzene | ND | 1.0 | | " | " | " | " | " | " | |
| Xylenes (total) | ND | 2.0 | | " | " | " | " | " | " | |
| Naphthalene | ND | 1.0 | | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | | " | " | " | " | " | " | |

Date Sampled: **06/19/23 12:15**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 13.6 | 102 % | | 23-173 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 14.1 | 106 % | | 20-170 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 12.8 | 96.2 % | | 21-167 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Date Sampled: **06/19/23 12:15**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------|--------|-----------|--|-------|----------|---------|----------|----------|---------------|-------|
| | | Limit | | | | | | | | |
| 2-Methylnaphthalene | ND | 0.500 | | ug/l | 1 | BGF0737 | 06/21/23 | 06/22/23 | EPA 8270D SIM | |

Date Sampled: **06/19/23 12:15**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 2-Methylnaphthalene-d10 | 1.52 | 75.8 % | | 40-150 | | " | " | " | " | |

Anions by EPA Method 300.0

Date Sampled: **06/19/23 12:15**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------|------------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Chloride | 204 | 12.0 | | mg/L | 200 | BGF0742 | 06/21/23 | 06/21/23 | EPA 300.0 | |

Summit Scientific

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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
 Project Manager: Jacob Whritenour

Reported:
 06/26/23 10:55

BH03
2306387-03 (Water)

Summit Scientific

Anions by EPA Method 300.0

| | | | | | | | | |
|----------------|------------|------|------|-----|---------|----------|----------|-----------|
| Sulfate | 241 | 60.0 | mg/L | 200 | BGF0742 | 06/21/23 | 06/21/23 | EPA 300.0 |
|----------------|------------|------|------|-----|---------|----------|----------|-----------|

Total Dissolved Solids by SM2540C

Date Sampled: **06/19/23 12:15**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------------|------------|-----------|-------|----------|---------|----------|----------|---------|-------|
| | | Limit | Units | | | | | | |
| Total Dissolved Solids | 855 | 10.0 | mg/L | 1 | BGF0747 | 06/21/23 | 06/21/23 | SM2540C | |

Summit Scientific

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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
06/26/23 10:55

BH04
2306387-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/19/23 12:33**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 1.0 | | ug/l | 1 | BGF0765 | 06/21/23 | 06/22/23 | EPA 8260B | |
| Toluene | ND | 1.0 | | " | " | " | " | " | " | |
| Ethylbenzene | ND | 1.0 | | " | " | " | " | " | " | |
| Xylenes (total) | ND | 2.0 | | " | " | " | " | " | " | |
| Naphthalene | ND | 1.0 | | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | | " | " | " | " | " | " | |

Date Sampled: **06/19/23 12:33**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 13.9 | 104 % | | 23-173 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 14.5 | 108 % | | 20-170 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 13.4 | 101 % | | 21-167 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Date Sampled: **06/19/23 12:33**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------|--------|-----------|--|-------|----------|---------|----------|----------|---------------|-------|
| | | Limit | | | | | | | | |
| 2-Methylnaphthalene | ND | 0.500 | | ug/l | 1 | BGF0737 | 06/21/23 | 06/22/23 | EPA 8270D SIM | |

Date Sampled: **06/19/23 12:33**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 2-Methylnaphthalene-d10 | 1.36 | 68.1 % | | 40-150 | | " | " | " | " | |

Anions by EPA Method 300.0

Date Sampled: **06/19/23 12:33**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------|------------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Chloride | 210 | 12.0 | | mg/L | 200 | BGF0742 | 06/21/23 | 06/21/23 | EPA 300.0 | |

Summit Scientific

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

Project: Noble - Thompson 28-10
 Project Number: UWRWE-A2396-ABN
 Project Manager: Jacob Whritenour

Reported:
 06/26/23 10:55

BH04
2306387-04 (Water)

Summit Scientific

Anions by EPA Method 300.0

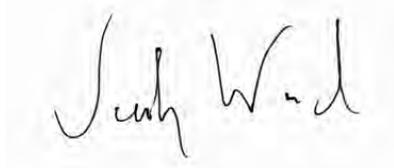
| | | | | | | | | |
|----------------|------------|------|------|-----|---------|----------|----------|-----------|
| Sulfate | 236 | 60.0 | mg/L | 200 | BGF0742 | 06/21/23 | 06/21/23 | EPA 300.0 |
|----------------|------------|------|------|-----|---------|----------|----------|-----------|

Total Dissolved Solids by SM2540C

Date Sampled: **06/19/23 12:33**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------------|------------|-----------|-------|----------|---------|----------|----------|---------|-------|
| | | Limit | Units | | | | | | |
| Total Dissolved Solids | 804 | 10.0 | mg/L | 1 | BGF0747 | 06/21/23 | 06/21/23 | SM2540C | |

Summit Scientific



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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
06/26/23 10:55

BH05
2306387-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/19/23 12:35**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 1.0 | | ug/l | 1 | BGF0765 | 06/21/23 | 06/22/23 | EPA 8260B | |
| Toluene | ND | 1.0 | | " | " | " | " | " | " | |
| Ethylbenzene | ND | 1.0 | | " | " | " | " | " | " | |
| Xylenes (total) | ND | 2.0 | | " | " | " | " | " | " | |
| Naphthalene | ND | 1.0 | | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | | " | " | " | " | " | " | |

Date Sampled: **06/19/23 12:35**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 14.2 | 106 % | | 23-173 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 14.4 | 108 % | | 20-170 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 12.9 | 96.6 % | | 21-167 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Date Sampled: **06/19/23 12:35**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------|--------|-----------|--|-------|----------|---------|----------|----------|---------------|-------|
| | | Limit | | | | | | | | |
| 2-Methylnaphthalene | ND | 0.500 | | ug/l | 1 | BGF0737 | 06/21/23 | 06/22/23 | EPA 8270D SIM | |

Date Sampled: **06/19/23 12:35**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 2-Methylnaphthalene-d10 | 1.40 | 70.2 % | | 40-150 | | " | " | " | " | |

Anions by EPA Method 300.0

Date Sampled: **06/19/23 12:35**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------|------------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Chloride | 291 | 12.0 | | mg/L | 200 | BGF0742 | 06/21/23 | 06/21/23 | EPA 300.0 | |

Summit Scientific

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

Project: Noble - Thompson 28-10
 Project Number: UWRWE-A2396-ABN
 Project Manager: Jacob Whritenour

Reported:
 06/26/23 10:55

BH05
2306387-05 (Water)

Summit Scientific

Anions by EPA Method 300.0

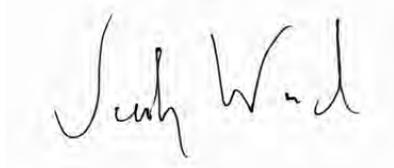
| | | | | | | | | |
|----------------|------------|------|------|-----|---------|----------|----------|-----------|
| Sulfate | 270 | 60.0 | mg/L | 200 | BGF0742 | 06/21/23 | 06/21/23 | EPA 300.0 |
|----------------|------------|------|------|-----|---------|----------|----------|-----------|

Total Dissolved Solids by SM2540C

Date Sampled: **06/19/23 12:35**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------------|------------|-----------|-------|----------|---------|----------|----------|---------|-------|
| | | Limit | Units | | | | | | |
| Total Dissolved Solids | 991 | 10.0 | mg/L | 1 | BGF0747 | 06/21/23 | 06/21/23 | SM2540C | |

Summit Scientific



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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
06/26/23 10:55

BH06
2306387-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/19/23 12:47**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 1.0 | | ug/l | 1 | BGF0765 | 06/21/23 | 06/22/23 | EPA 8260B | |
| Toluene | ND | 1.0 | | " | " | " | " | " | " | |
| Ethylbenzene | ND | 1.0 | | " | " | " | " | " | " | |
| Xylenes (total) | ND | 2.0 | | " | " | " | " | " | " | |
| Naphthalene | ND | 1.0 | | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | | " | " | " | " | " | " | |

Date Sampled: **06/19/23 12:47**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 14.6 | 109 % | | 23-173 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 14.1 | 106 % | | 20-170 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 13.2 | 99.4 % | | 21-167 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Date Sampled: **06/19/23 12:47**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------|--------|-----------|--|-------|----------|---------|----------|----------|---------------|-------|
| | | Limit | | | | | | | | |
| 2-Methylnaphthalene | ND | 0.500 | | ug/l | 1 | BGF0737 | 06/21/23 | 06/22/23 | EPA 8270D SIM | |

Date Sampled: **06/19/23 12:47**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 2-Methylnaphthalene-d10 | 1.56 | 78.1 % | | 40-150 | | " | " | " | " | |

Anions by EPA Method 300.0

Date Sampled: **06/19/23 12:47**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------|------------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Chloride | 280 | 12.0 | | mg/L | 200 | BGF0742 | 06/21/23 | 06/21/23 | EPA 300.0 | |

Summit Scientific

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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
06/26/23 10:55

BH06
2306387-06 (Water)

Summit Scientific

Anions by EPA Method 300.0

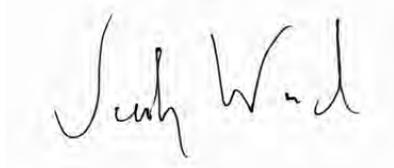
| | | | | | | | | |
|----------------|------------|------|------|-----|---------|----------|----------|-----------|
| Sulfate | 299 | 60.0 | mg/L | 200 | BGF0742 | 06/21/23 | 06/21/23 | EPA 300.0 |
|----------------|------------|------|------|-----|---------|----------|----------|-----------|

Total Dissolved Solids by SM2540C

Date Sampled: **06/19/23 12:47**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------------|-------------|-----------|-------|----------|---------|----------|----------|---------|-------|
| | | Limit | Units | | | | | | |
| Total Dissolved Solids | 1020 | 10.0 | mg/L | 1 | BGF0747 | 06/21/23 | 06/21/23 | SM2540C | |

Summit Scientific



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

Project: Noble - Thompson 28-10
Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
06/26/23 10:55

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGF0765 - EPA 5030 Water MS

Blank (BGF0765-BLK1)

Prepared: 06/21/23 Analyzed: 06/22/23

| | | | | | | | | | | |
|----------------------------------|------|-----|------|------|--|------|--------|--|--|--|
| Benzene | ND | 1.0 | ug/l | | | | | | | |
| Toluene | ND | 1.0 | " | | | | | | | |
| Ethylbenzene | ND | 1.0 | " | | | | | | | |
| Xylenes (total) | ND | 2.0 | " | | | | | | | |
| Naphthalene | ND | 1.0 | " | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | " | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | " | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 13.5 | | " | 13.3 | | 102 | 23-173 | | | |
| Surrogate: Toluene-d8 | 14.1 | | " | 13.3 | | 106 | 20-170 | | | |
| Surrogate: 4-Bromofluorobenzene | 13.0 | | " | 13.3 | | 97.3 | 21-167 | | | |

LCS (BGF0765-BS1)

Prepared: 06/21/23 Analyzed: 06/22/23

| | | | | | | | | | | |
|----------------------------------|------|-----|------|------|--|------|--------|--|--|--|
| Benzene | 40.0 | 1.0 | ug/l | 41.7 | | 96.0 | 51-132 | | | |
| Toluene | 41.7 | 1.0 | " | 41.7 | | 100 | 51-138 | | | |
| Ethylbenzene | 42.3 | 1.0 | " | 41.7 | | 102 | 58-146 | | | |
| m,p-Xylene | 85.1 | 2.0 | " | 83.3 | | 102 | 57-144 | | | |
| o-Xylene | 42.8 | 1.0 | " | 41.7 | | 103 | 53-146 | | | |
| Naphthalene | 44.3 | 1.0 | " | 41.7 | | 106 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 50.1 | 1.0 | " | 41.7 | | 120 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 51.7 | 1.0 | " | 41.7 | | 124 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 14.0 | | " | 13.3 | | 105 | 23-173 | | | |
| Surrogate: Toluene-d8 | 13.7 | | " | 13.3 | | 103 | 20-170 | | | |
| Surrogate: 4-Bromofluorobenzene | 12.9 | | " | 13.3 | | 96.5 | 21-167 | | | |

Matrix Spike (BGF0765-MS1)

Source: 2306386-01

Prepared: 06/21/23 Analyzed: 06/22/23

| | | | | | | | | | | |
|----------------------------------|------|-----|------|------|----|------|--------|--|--|-------|
| Benzene | 40.1 | 1.0 | ug/l | 41.7 | ND | 96.2 | 34-141 | | | |
| Toluene | 41.1 | 1.0 | " | 41.7 | ND | 98.7 | 27-151 | | | |
| Ethylbenzene | 43.5 | 1.0 | " | 41.7 | ND | 104 | 29-160 | | | |
| m,p-Xylene | 89.7 | 2.0 | " | 83.3 | ND | 108 | 20-166 | | | |
| o-Xylene | 44.0 | 1.0 | " | 41.7 | ND | 106 | 33-159 | | | |
| Naphthalene | 57.8 | 1.0 | " | 41.7 | ND | 139 | 70-130 | | | QM-07 |
| 1,2,4-Trimethylbenzene | 50.6 | 1.0 | " | 41.7 | ND | 121 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 52.0 | 1.0 | " | 41.7 | ND | 125 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 13.9 | | " | 13.3 | | 104 | 23-173 | | | |
| Surrogate: Toluene-d8 | 13.8 | | " | 13.3 | | 103 | 20-170 | | | |
| Surrogate: 4-Bromofluorobenzene | 13.0 | | " | 13.3 | | 97.7 | 21-167 | | | |

Summit Scientific

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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
06/26/23 10:55

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

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

Batch BGF0765 - EPA 5030 Water MS

| Matrix Spike Dup (BGF0765-MSD1) | Source: 2306386-01 | | | Prepared: 06/21/23 | | Analyzed: 06/22/23 | | | | |
|----------------------------------|--------------------|-----|------|--------------------|----|--------------------|--------|-------|----|-------|
| Benzene | 40.8 | 1.0 | ug/l | 41.7 | ND | 98.0 | 34-141 | 1.85 | 30 | |
| Toluene | 42.2 | 1.0 | " | 41.7 | ND | 101 | 27-151 | 2.71 | 30 | |
| Ethylbenzene | 43.1 | 1.0 | " | 41.7 | ND | 103 | 29-160 | 0.808 | 30 | |
| m,p-Xylene | 83.6 | 2.0 | " | 83.3 | ND | 100 | 20-166 | 7.05 | 30 | |
| o-Xylene | 44.2 | 1.0 | " | 41.7 | ND | 106 | 33-159 | 0.590 | 30 | |
| Naphthalene | 57.1 | 1.0 | " | 41.7 | ND | 137 | 70-130 | 1.17 | 30 | QM-07 |
| 1,2,4-Trimethylbenzene | 51.4 | 1.0 | " | 41.7 | ND | 123 | 70-130 | 1.55 | 30 | |
| 1,3,5-Trimethylbenzene | 52.9 | 1.0 | " | 41.7 | ND | 127 | 70-130 | 1.73 | 30 | |
| Surrogate: 1,2-Dichloroethane-d4 | 15.1 | | " | 13.3 | | 113 | 23-173 | | | |
| Surrogate: Toluene-d8 | 14.2 | | " | 13.3 | | 107 | 20-170 | | | |
| Surrogate: 4-Bromofluorobenzene | 13.0 | | " | 13.3 | | 97.4 | 21-167 | | | |

Summit Scientific

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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
06/26/23 10:55

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGF0737 - EPA 5030 Water MS

Blank (BGF0737-BLK1)

Prepared & Analyzed: 06/21/23

| | | | | | | | | | | |
|------------------------------------|------|-------|------|------|--|------|--------|--|--|--|
| Acenaphthene | ND | 0.500 | ug/l | | | | | | | |
| Acenaphthylene | ND | 0.200 | " | | | | | | | |
| Anthracene | ND | 0.200 | " | | | | | | | |
| Benzo (a) anthracene | ND | 0.100 | " | | | | | | | |
| Benzo (b) fluoranthene | ND | 0.200 | " | | | | | | | |
| Benzo (k) fluoranthene | ND | 0.200 | " | | | | | | | |
| Benzo (g,h,i) perylene | ND | 0.200 | " | | | | | | | |
| Benzo (a) pyrene | ND | 0.200 | " | | | | | | | |
| Chrysene | ND | 0.200 | " | | | | | | | |
| Dibenz (a,h) anthracene | ND | 0.200 | " | | | | | | | |
| Fluoranthene | ND | 2.00 | " | | | | | | | |
| Fluorene | ND | 0.200 | " | | | | | | | |
| Indeno (1,2,3-cd) pyrene | ND | 0.300 | " | | | | | | | |
| Phenanthrene | ND | 0.500 | " | | | | | | | |
| Pyrene | ND | 1.00 | " | | | | | | | |
| 1-Methylnaphthalene | ND | 0.500 | " | | | | | | | |
| 2-Methylnaphthalene | ND | 0.500 | " | | | | | | | |
| Surrogate: 2-Methylnaphthalene-d10 | 1.73 | | " | 2.00 | | 86.4 | 40-150 | | | |
| Surrogate: Fluoranthene-d10 | 2.33 | | " | 2.00 | | 117 | 40-150 | | | |

LCS (BGF0737-BS1)

Prepared & Analyzed: 06/21/23

| | | | | | | | | | | |
|--------------------------|------|-------|------|------|--|-----|--------|--|--|--|
| Acenaphthene | 2.13 | 0.500 | ug/l | 2.00 | | 107 | 30-120 | | | |
| Acenaphthylene | 2.29 | 0.200 | " | 2.00 | | 114 | 30-120 | | | |
| Anthracene | 2.31 | 0.200 | " | 2.00 | | 115 | 30-120 | | | |
| Benzo (a) anthracene | 2.23 | 0.100 | " | 2.00 | | 111 | 30-120 | | | |
| Benzo (b) fluoranthene | 2.35 | 0.200 | " | 2.00 | | 118 | 30-120 | | | |
| Benzo (k) fluoranthene | 2.01 | 0.200 | " | 2.00 | | 101 | 30-120 | | | |
| Benzo (g,h,i) perylene | 2.08 | 0.200 | " | 2.00 | | 104 | 30-120 | | | |
| Benzo (a) pyrene | 2.21 | 0.200 | " | 2.00 | | 110 | 30-120 | | | |
| Chrysene | 2.11 | 0.200 | " | 2.00 | | 105 | 30-120 | | | |
| Dibenz (a,h) anthracene | 2.26 | 0.200 | " | 2.00 | | 113 | 30-120 | | | |
| Fluoranthene | 2.18 | 2.00 | " | 2.00 | | 109 | 30-120 | | | |
| Fluorene | 2.21 | 0.200 | " | 2.00 | | 111 | 30-120 | | | |
| Indeno (1,2,3-cd) pyrene | 2.22 | 0.300 | " | 2.00 | | 111 | 30-120 | | | |
| Phenanthrene | 2.21 | 0.500 | " | 2.00 | | 110 | 30-120 | | | |
| Pyrene | 2.38 | 1.00 | " | 2.00 | | 119 | 30-120 | | | |
| 1-Methylnaphthalene | 2.29 | 0.500 | " | 2.00 | | 114 | 30-120 | | | |
| 2-Methylnaphthalene | 2.13 | 0.500 | " | 2.00 | | 106 | 0-200 | | | |

Summit Scientific

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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
06/26/23 10:55

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGF0737 - EPA 5030 Water MS

LCS (BGF0737-BS1)

Prepared & Analyzed: 06/21/23

| | | | | | | | | | |
|------------------------------------|------|--|------|------|--|-----|--------|--|--|
| Surrogate: 2-Methylnaphthalene-d10 | 2.35 | | ug/l | 2.00 | | 118 | 40-150 | | |
| Surrogate: Fluoranthene-d10 | 2.32 | | " | 2.00 | | 116 | 40-150 | | |

LCS Dup (BGF0737-BSD1)

Prepared & Analyzed: 06/21/23

| | | | | | | | | | |
|------------------------------------|------|-------|------|------|--|------|--------|-------|-----|
| Acenaphthene | 2.20 | 0.500 | ug/l | 2.00 | | 110 | 30-120 | 3.20 | 30 |
| Acenaphthylene | 2.32 | 0.200 | " | 2.00 | | 116 | 30-120 | 1.35 | 30 |
| Anthracene | 2.30 | 0.200 | " | 2.00 | | 115 | 30-120 | 0.291 | 30 |
| Benzo (a) anthracene | 2.35 | 0.100 | " | 2.00 | | 118 | 30-120 | 5.48 | 30 |
| Benzo (b) fluoranthene | 2.24 | 0.200 | " | 2.00 | | 112 | 30-120 | 5.01 | 30 |
| Benzo (k) fluoranthene | 2.21 | 0.200 | " | 2.00 | | 111 | 30-120 | 9.49 | 30 |
| Benzo (g,h,i) perylene | 2.17 | 0.200 | " | 2.00 | | 108 | 30-120 | 4.42 | 30 |
| Benzo (a) pyrene | 2.18 | 0.200 | " | 2.00 | | 109 | 30-120 | 1.34 | 30 |
| Chrysene | 2.10 | 0.200 | " | 2.00 | | 105 | 30-120 | 0.229 | 30 |
| Dibenz (a,h) anthracene | 2.12 | 0.200 | " | 2.00 | | 106 | 30-120 | 6.20 | 30 |
| Fluoranthene | 2.25 | 2.00 | " | 2.00 | | 112 | 30-120 | 3.13 | 30 |
| Fluorene | 2.20 | 0.200 | " | 2.00 | | 110 | 30-120 | 0.606 | 30 |
| Indeno (1,2,3-cd) pyrene | 2.32 | 0.300 | " | 2.00 | | 116 | 30-120 | 4.32 | 30 |
| Phenanthrene | 2.35 | 0.500 | " | 2.00 | | 117 | 30-120 | 6.15 | 30 |
| Pyrene | 2.17 | 1.00 | " | 2.00 | | 109 | 30-120 | 9.25 | 30 |
| 1-Methylnaphthalene | 2.02 | 0.500 | " | 2.00 | | 101 | 30-120 | 12.7 | 30 |
| 2-Methylnaphthalene | 1.93 | 0.500 | " | 2.00 | | 96.6 | 0-200 | 9.53 | 200 |
| Surrogate: 2-Methylnaphthalene-d10 | 2.08 | | " | 2.00 | | 104 | 40-150 | | |
| Surrogate: Fluoranthene-d10 | 2.35 | | " | 2.00 | | 117 | 40-150 | | |

Summit Scientific

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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN
Project Manager: Jacob Whritenour

Reported:
06/26/23 10:55

Anions by EPA Method 300.0 - Quality Control

Summit Scientific

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

Batch BGF0742 - General Preparation

Blank (BGF0742-BLK1)

Prepared: 06/21/23 Analyzed: 06/22/23

| | | | | | | | | | |
|----------|----|--------|------|--|--|--|--|--|--|
| Chloride | ND | 0.0600 | mg/L | | | | | | |
| Sulfate | ND | 0.300 | " | | | | | | |

LCS (BGF0742-BS1)

Prepared & Analyzed: 06/21/23

| | | | | | | | | |
|----------|------|--------|------|------|-----|--------|--|--|
| Chloride | 3.24 | 0.0600 | mg/L | 3.00 | 108 | 90-110 | | |
| Sulfate | 15.9 | 0.300 | " | 15.0 | 106 | 90-110 | | |

Duplicate (BGF0742-DUP1)

Source: 2306386-01

Prepared & Analyzed: 06/21/23

| | | | | | | | | |
|----------|------|------|------|--|------|--|------|----|
| Chloride | 22.6 | 12.0 | mg/L | | 21.4 | | 5.45 | 20 |
| Sulfate | 148 | 60.0 | " | | 171 | | 14.7 | 20 |

Matrix Spike (BGF0742-MS1)

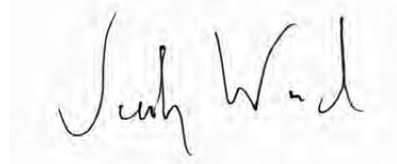
Source: 2306386-01

Prepared & Analyzed: 06/21/23

| | | | | | | | | |
|----------|------|------|------|------|------|-----|--------|--|
| Chloride | 697 | 12.0 | mg/L | 600 | 21.4 | 113 | 80-120 | |
| Sulfate | 3390 | 60.0 | " | 3000 | 171 | 107 | 80-120 | |

Summit Scientific

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

Project: Noble - Thompson 28-10

Project Number: UWRWE-A2396-ABN

Project Manager: Jacob Whritenour

Reported:

06/26/23 10:55

Notes and Definitions

| | |
|-------|---|
| QM-07 | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery. |
| 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 |