

TABLE 1
SOIL SAMPLE LOCATIONS
NOBLE ENERGY, INC. - SLW RANCH B12-65-1HN

| Soil Sample ID | Date | PID Reading (ppm) | Visual | Olfactory | Sample Type (Grab/Lab) | Latitude | Longitude | PDOP |
|----------------|----------|-------------------|-------------|----------------|------------------------|-------------|--------------|------|
| SS01@2" | 02/06/23 | 7.2 | No Staining | HC Odor | Lab | 40.41134600 | -104.5022810 | 3.6 |
| SS02@2" | 02/06/23 | 5.1 | No Staining | HC Odor | Lab | 40.41136700 | -104.5022920 | 2.2 |
| FS01@8" | 02/07/23 | 11.9 | No Staining | Slight HC Odor | Lab | 40.41135200 | -104.5022810 | 1.2 |
| SS03@6" | 02/09/23 | 2.9 | No Staining | No Odor | Lab | 40.41135934 | -104.5022893 | 1.0 |
| SS04@6" | 02/09/23 | 0.0 | No Staining | No Odor | Lab | 40.41136143 | -104.5022712 | 0.9 |
| SS05@6" | 02/09/23 | 4.3 | No Staining | No Odor | Lab | 40.41134611 | -104.5022674 | 1.0 |
| SS06@6" | 02/09/23 | 2.3 | No Staining | No Odor | Lab | 40.41134479 | -104.5022877 | 1.0 |
| BG01@0.5' | 03/16/23 | 0.0 | No Staining | No Odor | Lab | 40.41154671 | -104.5011358 | 2.6 |
| BG01@3' | 03/16/23 | 0.0 | No Staining | No Odor | Lab | 40.41154671 | -104.5011358 | 2.6 |
| BG02@0.5' | 03/16/23 | 0.0 | No Staining | No Odor | Lab | 40.41145208 | -104.5011016 | 2.6 |
| BG02@3' | 03/16/23 | 0.0 | No Staining | No Odor | Lab | 40.41145208 | -104.5011016 | 2.6 |
| BG03@0.5' | 03/16/23 | 0.0 | No Staining | No Odor | Lab | 40.41136067 | -104.5010660 | 3.4 |
| BG03@3' | 03/16/23 | 0.0 | No Staining | No Odor | Lab | 40.41136067 | -104.5010660 | 3.4 |
| BG04@0.5' | 03/16/23 | 0.0 | No Staining | No Odor | Lab | 40.41152169 | -104.5010247 | 4.3 |
| BG04@3' | 03/16/23 | 0.0 | No Staining | No Odor | Lab | 40.41152169 | -104.5010247 | 4.3 |
| BG05@0.5' | 03/16/23 | 0.0 | No Staining | No Odor | Lab | 40.41143448 | -104.5009764 | 4.3 |
| BG05@3' | 03/16/23 | 0.0 | No Staining | No Odor | Lab | 40.41143448 | -104.5009764 | 4.3 |
| SS07@2' | 03/20/23 | 1.2 | No Staining | No Odor | Lab | 40.41136415 | -104.5022716 | 1.0 |
| SS08@2' | 03/20/23 | 0.6 | No Staining | No Odor | Lab | 40.41134652 | -104.5022602 | 1.1 |
| SS09@2' | 03/20/23 | 0.2 | No Staining | No Odor | Lab | 40.41136960 | -104.5022703 | 1.0 |
| SS10@2' | 03/20/23 | 0.4 | No Staining | No Odor | Lab | 40.41136444 | -104.5022994 | 0.9 |
| FS02@2.5' | 03/20/23 | 0.9 | No Staining | No Odor | Lab | 40.41134137 | -104.5022767 | 1.2 |
| FS01@2.5' | 03/29/23 | 0.4 | No Staining | No Odor | Lab | NM | NM | NM |
| FS03@2.5' | 04/11/23 | 2.8 | No Staining | No Odor | Lab | 40.41135900 | -104.5022820 | NM |

Notes:

PID = Photo-ionization detector

ppm = parts per million

PDOP = Position dilution of precision

1.) Latitude and longitude coordinates will be provided in decimal degrees with an accuracy and precision of 5 decimals of a degree using the North American Datum ("NAD") of 1983

NM = Not Measured

TABLE 2
SOIL ANALYTICAL DATA
NOBLE ENERGY, INC. - SLW RANCH B12-65-1HN

| Soil Sample ID | Date | ¹ 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 | |
| SS01@2" | 02/06/23 | 0.074 | 0.24 | 0.044 | 0.44 | 0.20 | 0.077 | 0.028 | 12 | <50 | <50 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | 0.00847 | <0.00500 | <0.00500 | 0.0103 | <0.00500 | <0.00500 | 0.0398 | 0.0973 | |
| SS02@2" | 02/06/23 | 0.057 | 0.11 | 0.011 | 0.12 | 0.036 | 0.013 | 0.0094 | 1.3 | <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 | 0.00574 | 0.0146 |
| FS01@8" | 02/07/23 | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <0.50 | 170 | <50 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | 0.00573 | <0.00500 | 0.0216 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | 0.0159 | 0.00949 |
| SS03@6" | 02/09/23 | <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 | <0.00500 |
| SS04@6" | 02/09/23 | <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 | <0.00500 |
| SS05@6" | 02/09/23 | <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 | <0.00500 |
| SS06@6" | 02/09/23 | <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 | <0.00500 |
| SS07@2" | 03/20/23 | <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 | <0.00500 |
| SS08@2" | 03/20/23 | <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 | <0.00500 |
| SS09@2" | 03/20/23 | <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 | <0.00500 |
| SS10@2" | 03/20/23 | <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 | <0.00500 |
| FS02@2.5' | 03/20/23 | <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 | <0.00500 |
| FS01@2.5' | 03/29/23 | <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 | <0.00500 |
| FS03@2.5' | 04/11/23 | <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 | <0.00500 |

| Soil Sample ID | Date | pH | SAR | EC (mmhos/cm) | Boron (mg/L) |
|------------------------------|----------|---------|--------|---------------|--------------|
| Residential SSL ² | | 6 - 8.3 | <6 | <4mmhos/cm | 2 |
| SS01@2" | 02/06/23 | 7.82 | 8.01 | 2.54 | 1.66 |
| SS02@2" | 02/06/23 | 8.35 | 44.3 | 3.58 | 1.72 |
| FS01@8" | 02/07/23 | 8.21 | 39.6 | 2.95 | 0.733 |
| SS03@6" | 02/09/23 | 8.04 | 16.0 | 2.82 | 0.935 |
| SS04@6" | 02/09/23 | 8.02 | 10.9 | 1.59 | 0.771 |
| SS05@6" | 02/09/23 | 8.90 | 4.71 | 1.16 | 0.779 |
| SS06@6" | 02/09/23 | 7.90 | 8.84 | 1.58 | 1.14 |
| BG01@0.5' | 03/16/23 | 8.42 | 0.177 | 0.148 | 0.0843 |
| BG01@3' | 03/16/23 | 8.53 | 0.195 | 0.138 | 0.0472 |
| BG02@0.5' | 03/16/23 | 8.27 | 0.0411 | 0.185 | 0.225 |
| BG02@3' | 03/16/23 | 8.30 | 0.338 | 0.176 | 0.109 |
| BG03@0.5' | 03/16/23 | 8.82 | 0.0974 | 0.321 | 0.395 |
| BG03@3' | 03/16/23 | 8.15 | 0.277 | 0.170 | 0.0475 |
| BG04@0.5' | 03/16/23 | 8.13 | 0.0388 | 0.220 | 0.175 |
| BG04@3' | 03/16/23 | 8.69 | 0.218 | 0.142 | 0.0660 |
| BG05@0.5' | 03/16/23 | 8.74 | 0.361 | 0.266 | 0.0643 |
| BG05@3' | 03/16/23 | 8.33 | 0.330 | 0.220 | 0.0760 |
| SS07@2" | 03/20/23 | 7.76 | 0.492 | 0.602 | 0.0912 |
| SS08@2" | 03/20/23 | 7.92 | 0.417 | 0.500 | 0.0986 |
| SS09@2" | 03/20/23 | 7.49 | 1.88 | 0.950 | 0.0911 |
| SS10@2" | 03/20/23 | 8.47 | 3.82 | 0.697 | 0.180 |
| FS02@2.5' | 03/20/23 | 7.45 | 2.89 | 0.888 | 0.154 |
| FS01@2.5' | 03/29/23 | 7.70 | 23.8 | 6.49 | 0.949 |
| FS03@2.5' | 04/11/23 | 7.80 | 2.56 | 3.60 | 0.231 |

| 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 |
| SS01@2" | 02/06/23 | 1.94 | 106 | 0.173 | <0.30 | 4.42 | 3.65 | 2.96 | <0.260 | 0.0242 | 16.6 |
| SS02@2" | 02/06/23 | 4.87 | 75.8 | 0.302 | <0.30 | 4.88 | 7.61 | 3.11 | <0.260 | 0.0163 | 11.1 |
| FS01@8" | 02/07/23 | 2.15 | 57.5 | 0.0616 | <0.30 | 5.74 | 2.84 | 4.03 | 0.426 | 0.0114 | 15.3 |
| SS03@6" | 02/09/23 | 1.80 | 44.0 | 0.0474 | <0.30 | 5.21 | 2.38 | 3.59 | 0.396 | 0.0118 | 13.3 |
| SS04@6" | 02/09/23 | 1.55 | 39.7 | 0.0441 | <0.30 | 4.89 | 2.23 | 3.28 | 0.363 | 0.0120 | 13.2 |
| SS05@6" | 02/09/23 | 1.97 | 42.8 | 0.0592 | <0.30 | 5.58 | 2.85 | 3.96 | 0.449 | 0.0136 | 16.2 |
| SS06@6" | 02/09/23 | 1.86 | 47.7 | 0.0612 | <0.30 | 5.58 | 2.85 | 3.94 | 0.296 | 0.0165 | 15.9 |
| BG01@0.5' | 03/16/23 | 1.87 | 26.6 | 0.101 | <0.30 | 1.80 | 2.83 | 1.50 | <0.260 | 0.00886 | 6.84 |
| BG01@3' | 03/16/23 | 0.722 | 22.4 | 0.0454 | <0.30 | 1.03 | 1.61 | 0.827 | <0.260 | 0.00730 | 3.73 |
| BG02@0.5' | 03/16/23 | 0.722 | 18.0 | 0.0770 | <0.30 | 1.65 | 2.87 | 1.29 | <0.260 | 0.0264 | 6.34 |
| BG02@3' | 03/16/23 | 2.71 | 35.2 | 0.105 | <0.30 | 2.26 | 2.70 | 1.47 | <0.260 | 0.0106 | 6.20 |
| BG03@0.5' | 03/16/23 | 1.25 | 25.5 | 0.105 | <0.30 | 2.13 | 3.81 | 1.71 | <0.260 | 0.0257 | 8.09 |
| BG03@3' | 03/16/23 | 1.08 | 39.4 | 0.0676 | <0.30 | 1.20 | 2.20 | 1.14 | <0.260 | 0.00607 | 4.60 |
| BG04@0.5' | 03/16/23 | 1.26 | 24.2 | 0.122 | <0.30 | 2.32 | 4.48 | 1.86 | <0.260 | 0.0278 | 9.53 |
| BG04@3' | 03/16/23 | 1.29 | 12.8 | 0.0655 | <0.30 | 1.30 | 2.44 | 0.824 | <0.260 | 0.00498 | 4.04 |
| BG05@0.5' | 03/16/23 | 1.20 | 33.6 | 0.0703 | <0.30 | 1.65 | 2.66 | 1.27 | <0.260 | 0.00682 | 5.62 |
| BG05@3' | 03/16/23 | 2.48 | 43.6 | 0.125 | <0.30 | 2.13 | 5.76 | 1.72 | <0.260 | 0.00939 | 7.60 |
| SS07@2" | 03/20/23 | 2.00 | 50.2 | 0.0822 | <0.30 | 3.53 | 2.75 | 2.91 | <0.260 | 0.0126 | 9.97 |
| SS08@2" | 03/20/23 | 2.04 | 30.2 | 0.0970 | <0.30 | 4.09 | 3.37 | 2.80 | <0.260 | 0.0142 | 10.2 |
| SS09@2" | 03/20/23 | 2.27 | 47.0 | 0.0901 | <0.30 | 4.01 | 2.96 | 3.23 | <0.260 | 0.0110 | 10.8 |
| SS10@2" | 03/20/23 | 2.76 | 53.2 | 0.0935 | <0.30 | 4.96 | 3.39 | 3.45 | <0.260 | 0.0119 | 12.5 |
| FS02@2.5' | 03/20/23 | 2.96 | 49.0 | 0.107 | <0.30 | 4.41 | 3.38 | 3.51 | <0.260 | 0.0122 | 11.9 |
| FS01@2.5' | 03/29/23 | 2.41 | 48.3 | 0.103 | <0.30 | 3.86 | 2.92 | 2.85 | <0.260 | 0.00974 | 11.7 |
| FS03@2.5' | 04/11/23 | 2.42 | 48.6 | <0.205 | <0.30 | 4.15 | 3.44 | 3.11 | <0.260 | <0.0205 | 14.4 |

Notes:

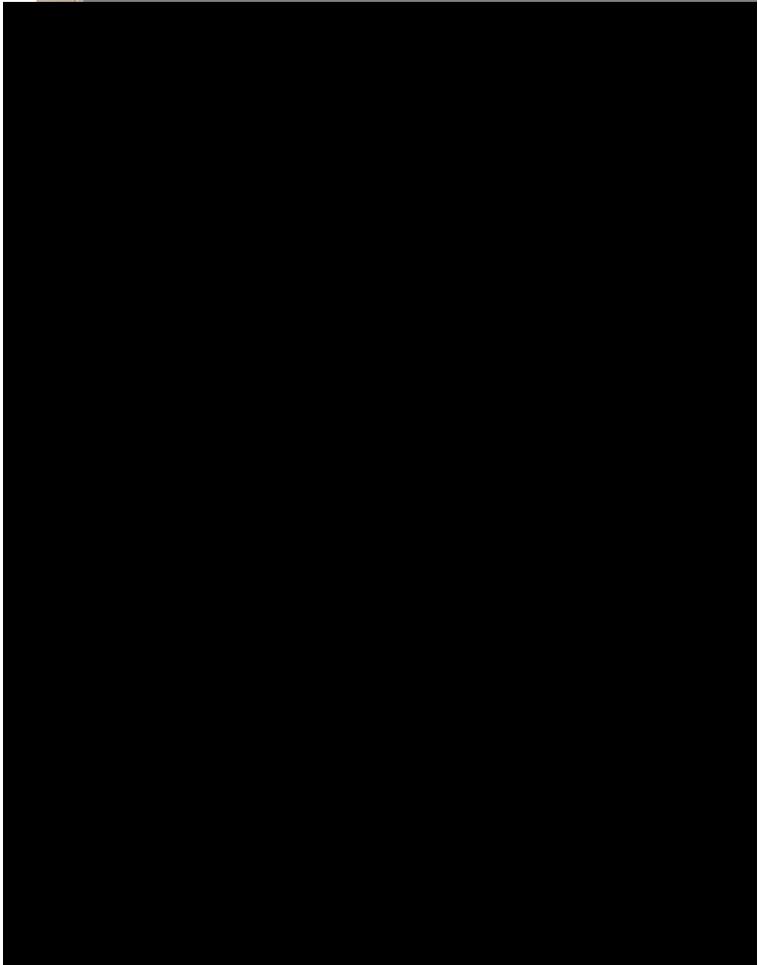
- Compounds referenced from 2 CCR 404-1, Table 915-1, effective January 15, 2021.
- Soil Screening Levels (SSL) referenced from EPA Regional Screening Levels (EPA RSLs) for Chemical Contaminants at Superfund Sites, effective November 2020.
- SSLs are applicable if a pathway for communication with groundwater is present.

Definitions:

COGCC = Colorado Oil and Gas Conservation Commission

TPH-GRO = Total

Photographic Log

| | | | | | | | | | | | |
|-------------------------------|--|----------------------------------|--|----------------------|--|----------------------------------|--|----------------|--|------------------|--|
| | | |  | | | | | | | | |
| | | | | | | | | | | | |
| Equipment ID: SS01 @2' | | Equipment Type: Separator | | Equipment ID: | | Equipment Type: Separator | | | | | |
| Material: | | Volume: | | Contents: | | Material: | | Volume: | | Contents: | |
| Notes/Conditions: | | | | | | Notes/Conditions: | | | | | |

Photographic Log



| | | | | | | | |
|---------------------------|----------------|------------------------|--|---------------------------|----------------|------------------------|--|
| Equipment ID: SS03 | | Equipment Type: | | Equipment ID: SS04 | | Equipment Type: | |
| Material: | Volume: | Contents: | | Material: | Volume: | Contents: | |
| Notes/Conditions: | | | | Notes/Conditions: | | | |

Photographic Log



| | | | | | | | |
|---------------------------|----------------|------------------------|--|---------------------------|----------------|------------------------|--|
| Equipment ID: SS05 | | Equipment Type: | | Equipment ID: SS06 | | Equipment Type: | |
| Material: | Volume: | Contents: | | Material: | Volume: | Contents: | |
| Notes/Conditions: | | | | Notes/Conditions: | | | |

Photographic Log



| | | | | | | | |
|--------------------------------|----------------|------------------------|--|------------------------------|----------------|------------------------|--|
| Equipment ID: FS02@2.5' | | Equipment Type: | | Equipment ID: SS07@2' | | Equipment Type: | |
| Material: | Volume: | Contents: | | Material: | Volume: | Contents: | |
| Notes/Conditions: | | | | Notes/Conditions: | | | |

Photographic Log



| | | | | | | | |
|------------------------------|----------------|------------------------|--|------------------------------|----------------|------------------------|--|
| Equipment ID: ss08@2' | | Equipment Type: | | Equipment ID: ss09@2' | | Equipment Type: | |
| Material: | Volume: | Contents: | | Material: | Volume: | Contents: | |
| Notes/Conditions: | | | | Notes/Conditions: | | | |

Photographic Log


| | | | | | | | |
|------------------------------|----------------|------------------------|--|--|----------------|------------------------|--|
| Equipment ID: SS10@2' | | Equipment Type: | | Equipment ID: | | Equipment Type: | |
| Material: | Volume: | Contents: | | Material: | Volume: | Contents: | |
| Notes/Conditions: | | | | Notes/Conditions: South facing extent | | | |



Direction:

Notes: FS01@2.5'

Direction:

Notes:

Photographic Log


| | | | | | | | |
|--------------------------------|----------------|------------------------|--|--------------------------|----------------|------------------------|--|
| Equipment ID: FS03@2.5' | | Equipment Type: | | Equipment ID: | | Equipment Type: | |
| Material: | Volume: | Contents: | | Material: | Volume: | Contents: | |
| Notes/Conditions: | | | | Notes/Conditions: | | | |

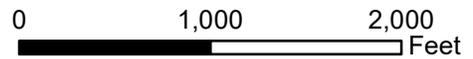
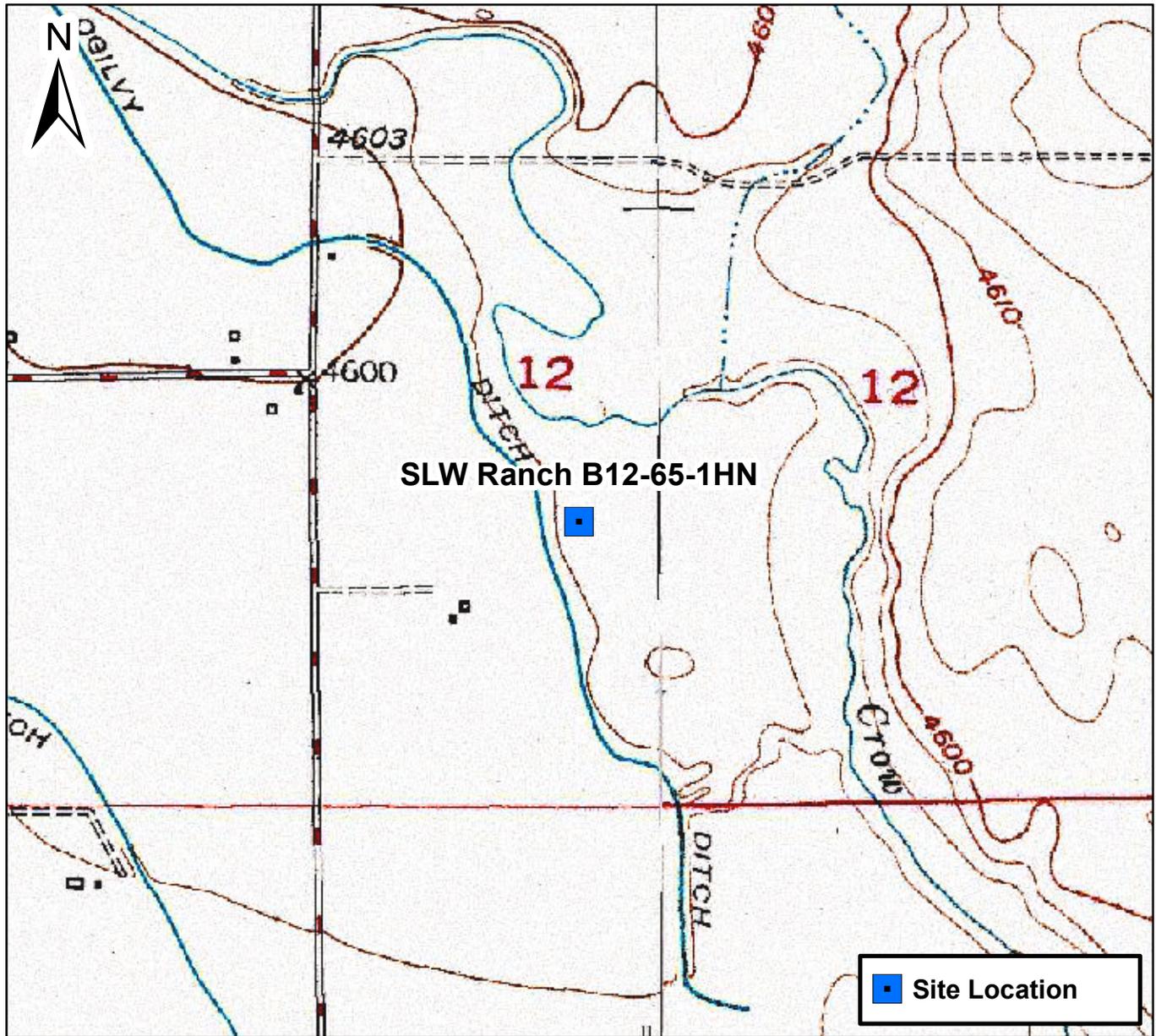
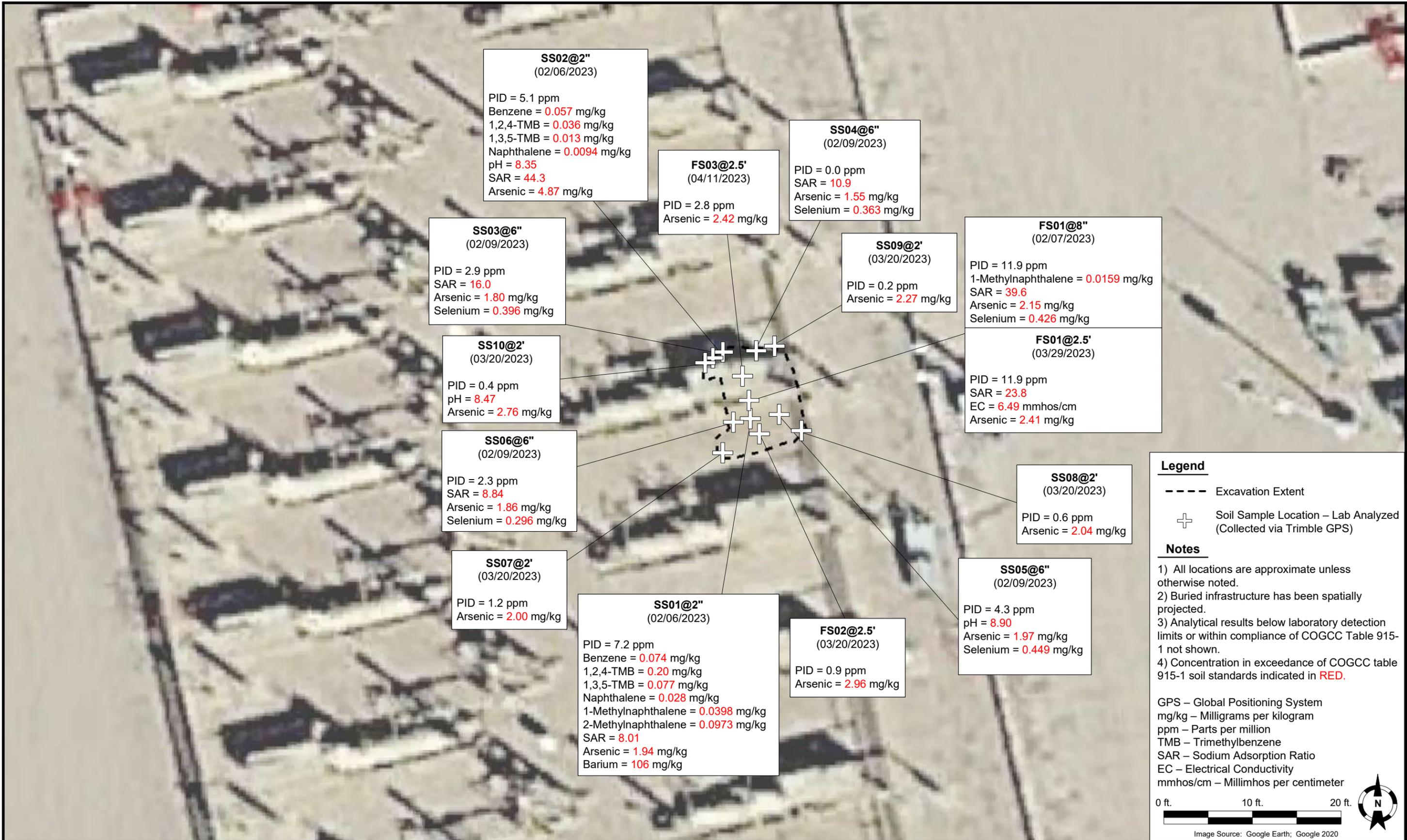


Figure 1

Site Location Map
 SLW Ranch B12-65-1HN
 NESW S12 T5N R64W
 Weld County, Colorado





SS02@2"
(02/06/2023)

PID = 5.1 ppm
Benzene = **0.057** mg/kg
1,2,4-TMB = **0.036** mg/kg
1,3,5-TMB = **0.013** mg/kg
Naphthalene = **0.0094** mg/kg
pH = **8.35**
SAR = **44.3**
Arsenic = **4.87** mg/kg

FS03@2.5'
(04/11/2023)

PID = 2.8 ppm
Arsenic = **2.42** mg/kg

SS04@6"
(02/09/2023)

PID = 0.0 ppm
SAR = **10.9**
Arsenic = **1.55** mg/kg
Selenium = **0.363** mg/kg

SS03@6"
(02/09/2023)

PID = 2.9 ppm
SAR = **16.0**
Arsenic = **1.80** mg/kg
Selenium = **0.396** mg/kg

SS09@2'
(03/20/2023)

PID = 0.2 ppm
Arsenic = **2.27** mg/kg

FS01@8"
(02/07/2023)

PID = 11.9 ppm
1-Methylnaphthalene = **0.0159** mg/kg
SAR = **39.6**
Arsenic = **2.15** mg/kg
Selenium = **0.426** mg/kg

SS10@2'
(03/20/2023)

PID = 0.4 ppm
pH = **8.47**
Arsenic = **2.76** mg/kg

FS01@2.5'
(03/29/2023)

PID = 11.9 ppm
SAR = **23.8**
EC = **6.49** mmhos/cm
Arsenic = **2.41** mg/kg

SS06@6"
(02/09/2023)

PID = 2.3 ppm
SAR = **8.84**
Arsenic = **1.86** mg/kg
Selenium = **0.296** mg/kg

SS08@2'
(03/20/2023)

PID = 0.6 ppm
Arsenic = **2.04** mg/kg

SS07@2'
(03/20/2023)

PID = 1.2 ppm
Arsenic = **2.00** mg/kg

SS01@2"
(02/06/2023)

PID = 7.2 ppm
Benzene = **0.074** mg/kg
1,2,4-TMB = **0.20** mg/kg
1,3,5-TMB = **0.077** mg/kg
Naphthalene = **0.028** mg/kg
1-Methylnaphthalene = **0.0398** mg/kg
2-Methylnaphthalene = **0.0973** mg/kg
SAR = **8.01**
Arsenic = **1.94** mg/kg
Barium = **106** mg/kg

FS02@2.5'
(03/20/2023)

PID = 0.9 ppm
Arsenic = **2.96** mg/kg

SS05@6"
(02/09/2023)

PID = 4.3 ppm
pH = **8.90**
Arsenic = **1.97** mg/kg
Selenium = **0.449** mg/kg

Legend

--- Excavation Extent

⊕ Soil Sample Location – Lab Analyzed (Collected via Trimble GPS)

Notes

- 1) All locations are approximate unless otherwise noted.
- 2) Buried infrastructure has been spatially projected.
- 3) Analytical results below laboratory detection limits or within compliance of COGCC Table 915-1 not shown.
- 4) Concentration in exceedance of COGCC table 915-1 soil standards indicated in **RED**.

GPS – Global Positioning System
mg/kg – Milligrams per kilogram
ppm – Parts per million
TMB – Trimethylbenzene
SAR – Sodium Adsorption Ratio
EC – Electrical Conductivity
mmhos/cm – Millimhos per centimeter

0 ft. 10 ft. 20 ft.

Image Source: Google Earth; Google 2020

DATE: 03/28/2023

DESIGNED BY: JW

DRAWN BY: HM

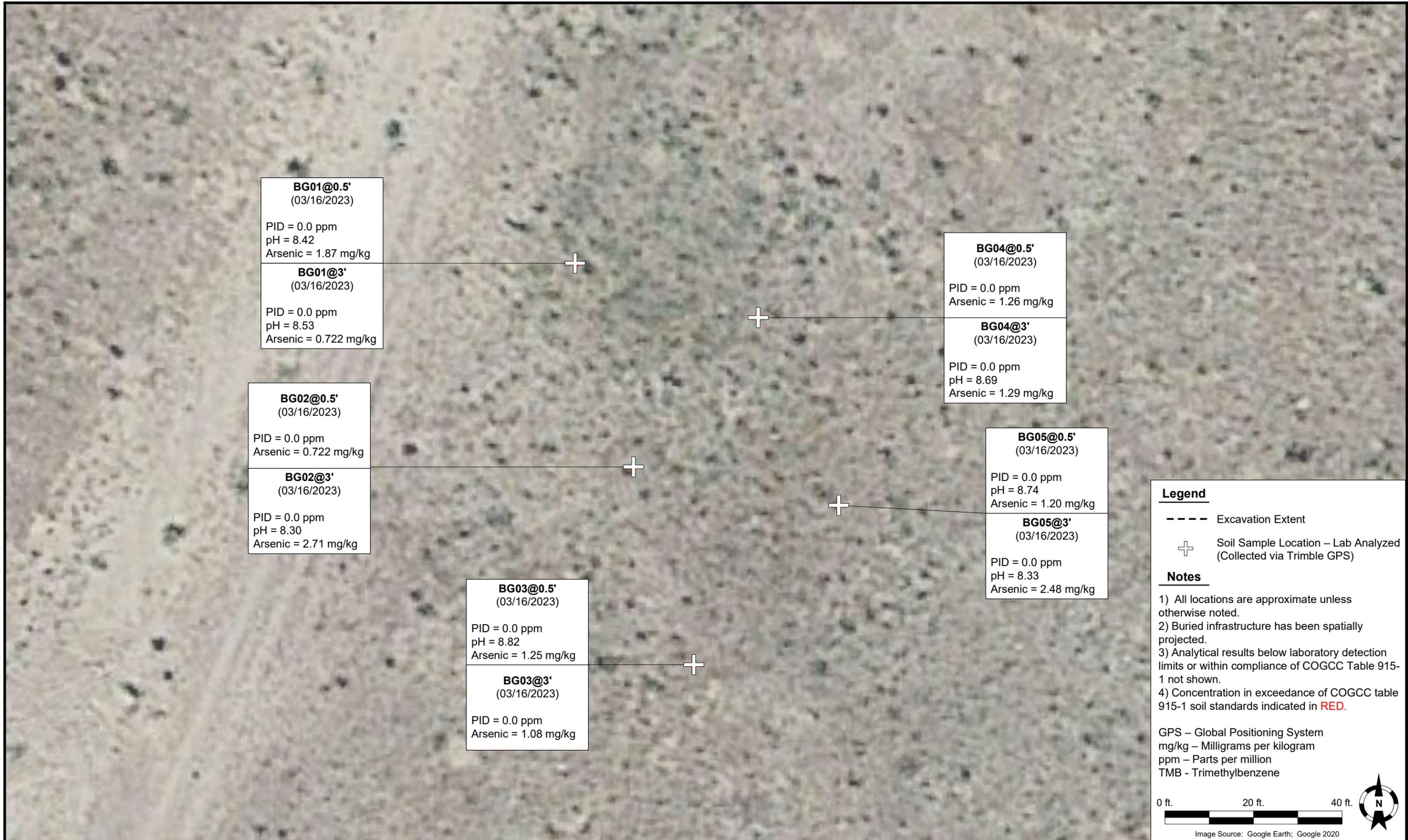
TASMAN
GEOSCIENCES

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

Noble Energy, Inc. – DJ Basin
SLW Ranch B12-65-1HN
NESW, Section 12, Township 5 North, Range 64 West
Weld County, Colorado

Soil Analytical Results Map
(02/06/23, 02/07/23, 02/09/23,
03/20/23, 03/29/23, &
04/11/2023)

FIGURE
2



BG01@0.5'
(03/16/2023)
PID = 0.0 ppm
pH = 8.42
Arsenic = 1.87 mg/kg

BG01@3'
(03/16/2023)
PID = 0.0 ppm
pH = 8.53
Arsenic = 0.722 mg/kg

BG02@0.5'
(03/16/2023)
PID = 0.0 ppm
Arsenic = 0.722 mg/kg

BG02@3'
(03/16/2023)
PID = 0.0 ppm
pH = 8.30
Arsenic = 2.71 mg/kg

BG03@0.5'
(03/16/2023)
PID = 0.0 ppm
pH = 8.82
Arsenic = 1.25 mg/kg

BG03@3'
(03/16/2023)
PID = 0.0 ppm
Arsenic = 1.08 mg/kg

BG04@0.5'
(03/16/2023)
PID = 0.0 ppm
Arsenic = 1.26 mg/kg

BG04@3'
(03/16/2023)
PID = 0.0 ppm
pH = 8.69
Arsenic = 1.29 mg/kg

BG05@0.5'
(03/16/2023)
PID = 0.0 ppm
pH = 8.74
Arsenic = 1.20 mg/kg

BG05@3'
(03/16/2023)
PID = 0.0 ppm
pH = 8.33
Arsenic = 2.48 mg/kg

Legend

- Excavation Extent
- + Soil Sample Location – Lab Analyzed (Collected via Trimble GPS)

Notes

- 1) All locations are approximate unless otherwise noted.
- 2) Buried infrastructure has been spatially projected.
- 3) Analytical results below laboratory detection limits or within compliance of COGCC Table 915-1 not shown.
- 4) Concentration in exceedance of COGCC table 915-1 soil standards indicated in **RED**.

GPS – Global Positioning System
mg/kg – Milligrams per kilogram
ppm – Parts per million
TMB - Trimethylbenzene

0 ft. 20 ft. 40 ft.

Image Source: Google Earth; Google 2020

| | |
|--------------|------------|
| DATE: | 03/28/2023 |
| DESIGNED BY: | JW |
| DRAWN BY: | HM |



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

Noble Energy, Inc. – DJ Basin
SLW Ranch B12-65-1HN
NESW, Section 12, Township 5 North, Range 64 West
Weld County, Colorado

Background Soil
Analytical Results Map
(03/16/2023)

FIGURE
3

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

February 13, 2023

Jacob Whritenour

Tasman Geosciences

6855 W. 119th Ave.

Broomfeld, CO 80020

RE: Noble - SLW Ranch B12-65-1HN

Work Order # 2302194

Enclosed are the results of analyses for samples received by Summit Scientific on 02/09/23 18:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Scott Sheely For Paul Shrewsbury

President

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
02/13/23 16:30

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| SS03@6" | 2302194-01 | Soil | 02/09/23 12:05 | 02/09/23 18:00 |
| SS04@6" | 2302194-02 | Soil | 02/09/23 12:10 | 02/09/23 18:00 |
| SS05@6" | 2302194-03 | Soil | 02/09/23 12:15 | 02/09/23 18:00 |
| SS06@6" | 2302194-04 | Soil | 02/09/23 12:20 | 02/09/23 18:00 |

Summit Scientific

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



SUMMIT SCIENTIFIC

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

| | |
|---------|-------------|
| Lab ID | Page 1 of 1 |
| 2302194 | |

| | | | | | |
|---|--|---|--|---|--|
| Client: PDC / Tasman | | Send Data To: Project Manager: <i>CJ Mark Longhurst Jake Writeenour</i> | | Send Invoice To: Company: <i>CJ PDC Energy Noble Energy</i> | |
| Address: 6855 W 119th Ave | | E-Mail: <i>CJ mark.longhurst@PDCE.com</i> | | Project Name/Location: | |
| City/State/Zip: Broomfield / CO / 80220 | | E-Mail: <i>JWriteenour@Tasman-Geo.com</i> | | AFE#: | |
| Phone: 303-487-1228 | | Project Name: <i>SLW Ranch B12-55-1HN</i> | | PO/Billing Codes: | |
| Sampler Name: Chase Jonjak | | Project Number: | | Contact: <i>CJ Mark Longhurst 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 | BTEXN - 8260B | TPH - (C6 - C36) | 1,2,4 & 1,3,5-TMB | Boron - HWS | pH, EC, SAR | Metals-915 | |
| 1 | SS03@5" | 2/9/23 | 1205 | 3 | | | X | | | X | | | X | X | X | X | X | X | |
| 2 | SS04@5" | I | 1210 | I | | | I | | | I | | | I | I | I | I | I | I | |
| 3 | SS05@5" | I | 1215 | I | | | I | | | I | | | I | I | I | I | I | I | |
| 4 | SS06@5" | I | 1220 | I | | | I | | | I | | | I | I | I | I | I | I | |
| 5 | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | |

| | | | | | | |
|--|---------------------------------|------------------------------------|-------------------------------|-------------------|-------------|-------------|
| Relinquished by: <i>Chase J</i> | Date/Time: <i>2/9/23 1446</i> | Received by: <i>Tasman Lockbox</i> | Date/Time: <i>2/9/23 1446</i> | TAT Business Days | Field DO | Notes: |
| | | | | Same Day | X Field EC | |
| Relinquished by: <i>Tasman Lockbox</i> | Date/Time: <i>2/9/23 1800</i> | Received by: <i>[Signature]</i> | Date/Time: <i>2/9/23 1800</i> | 1 Day | Field ORP | |
| | | | | 2 Days | Field pH | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 3 Days | Field Temp. | |
| Temperature Upon Receipt: <i>8.3</i> | Corrected Temperature: <i>0</i> | IR gun #: | | Standard | Field Turb. | HNO3 lot #: |

S₂

Sample Receipt Checklist

S2 Work Order# 2302194

Client: Doc Trisman Client Project ID: SLW Ranch

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

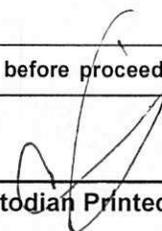
Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C) Thermometer #

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

Additional Comments (if any):

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


Custodian Printed Name

2-9-23
Date/Time



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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
02/13/23 16:30

SS03@6"
2302194-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/09/23 12:05**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BGB0281 | 02/09/23 | 02/10/23 | 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: **02/09/23 12:05**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|-----|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | MDL | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 76.7 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 109 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 116 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/09/23 12:05**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BGB0282 | 02/09/23 | 02/10/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **02/09/23 12:05**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|-----|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | MDL | | | | | | | |
| Surrogate: o-Terphenyl | | 114 % | | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Summit Scientific

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



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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
02/13/23 16:30

SS03@6"
2302194-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/09/23 12:05**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-----|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | | mg/kg | 1 | BGB0296 | 02/10/23 | 02/11/23 | EPA 8270D SIM | |
| Anthracene | ND | 0.00500 | | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.00500 | | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.00500 | | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.00500 | | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.00500 | | " | " | " | " | " | " | |
| Chrysene | ND | 0.00500 | | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.00500 | | " | " | " | " | " | " | |
| Fluoranthene | ND | 0.00500 | | " | " | " | " | " | " | |
| Fluorene | ND | 0.00500 | | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | | " | " | " | " | " | " | |
| Pyrene | ND | 0.00500 | | " | " | " | " | " | " | |
| 1-Methylnaphthalene | ND | 0.00500 | | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 0.00500 | | " | " | " | " | " | " | |

Date Sampled: **02/09/23 12:05**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|-----|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | | 54.7 % | | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | | 74.6 % | | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/09/23 12:05**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|--------------|-----------------|-----|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 0.935 | 0.0100 | | mg/L | 1 | BGB0312 | 02/10/23 | 02/13/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **02/09/23 12:05**

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

Summit Scientific

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



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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
02/13/23 16:30

SS03@6"
2302194-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|--------|---------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 1.80 | 0.213 | 0.180 | mg/kg dry | 1 | BGB0306 | 02/10/23 | 02/12/23 | EPA 6020B | |
| Barium | 44.0 | 0.427 | 0.337 | " | " | " | " | " | " | |
| Cadmium | 0.0474 | 0.213 | 0.00768 | " | " | " | " | " | " | |
| Copper | 5.21 | 0.427 | 0.0223 | " | " | " | " | " | " | |
| Lead | 2.38 | 0.213 | 0.0586 | " | " | " | " | " | " | |
| Nickel | 3.59 | 0.427 | 0.0651 | " | " | " | " | " | " | |
| Selenium | 0.396 | 0.260 | 0.175 | " | " | " | " | " | " | |
| Silver | 0.0118 | 0.0213 | 0.00285 | " | " | " | " | " | " | |
| Zinc | 13.3 | 0.427 | 0.284 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/09/23 12:05**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | | mg/kg dry | 1 | BGB0315 | 02/10/23 | 02/10/23 | EPA 7196A | |

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

Date Sampled: **02/09/23 12:05**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|-----|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 41.4 | 0.0534 | | mg/L dry | 1 | BGB0285 | 02/09/23 | 02/12/23 | EPA 6020B | |
| Magnesium | 11.1 | 0.0534 | | " | " | " | " | " | " | |
| Sodium | 449 | 0.0534 | | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **02/09/23 12:05**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-----|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 16.0 | 0.00100 | | units | 1 | BGB0360 | 02/13/23 | 02/13/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

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 - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
02/13/23 16:30

SS03@6"
2302194-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/09/23 12:05**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | MDL | | | | | | | |
| % Solids | 93.7 | | | % | 1 | BGB0334 | 02/12/23 | 02/12/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/09/23 12:05**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Specific Conductance (EC) | 2.82 | 0.0100 | | mmhos/cm | 1 | BGB0317 | 02/10/23 | 02/10/23 | EPA 120.1 | |

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

Date Sampled: **02/09/23 12:05**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| pH | 8.04 | | | pH Units | 1 | BGB0316 | 02/10/23 | 02/10/23 | EPA 9045D | |

Summit Scientific

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





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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
02/13/23 16:30

SS04@6"
2302194-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/09/23 12:10**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BGB0281 | 02/09/23 | 02/10/23 | 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: **02/09/23 12:10**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|-----|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | MDL | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 80.1 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 110 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 116 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/09/23 12:10**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BGB0282 | 02/09/23 | 02/10/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **02/09/23 12:10**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|-----|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | MDL | | | | | | | |
| Surrogate: o-Terphenyl | | 115 % | | 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 - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
02/13/23 16:30

SS04@6"
2302194-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/09/23 12:10**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-----|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | | mg/kg | 1 | BGB0296 | 02/10/23 | 02/11/23 | EPA 8270D SIM | |
| Anthracene | ND | 0.00500 | | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.00500 | | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.00500 | | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.00500 | | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.00500 | | " | " | " | " | " | " | |
| Chrysene | ND | 0.00500 | | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.00500 | | " | " | " | " | " | " | |
| Fluoranthene | ND | 0.00500 | | " | " | " | " | " | " | |
| Fluorene | ND | 0.00500 | | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | | " | " | " | " | " | " | |
| Pyrene | ND | 0.00500 | | " | " | " | " | " | " | |
| 1-Methylnaphthalene | ND | 0.00500 | | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 0.00500 | | " | " | " | " | " | " | |

Date Sampled: **02/09/23 12:10**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|-----|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | | 43.6 % | | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | | 76.2 % | | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/09/23 12:10**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|--------------|-----------------|-----|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 0.771 | 0.0100 | | mg/L | 1 | BGB0312 | 02/10/23 | 02/13/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **02/09/23 12:10**

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

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
02/13/23 16:30

SS04@6"
2302194-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | |
|----------|--------|--------|---------|-----------|-------|----------|----------|----------|-----------|
| Arsenic | 1.55 | 0.214 | 0.180 | mg/kg dry | 1 | BGB0306 | 02/10/23 | 02/12/23 | EPA 6020B |
| Barium | 39.7 | 0.428 | 0.338 | " | " | " | " | " | " |
| Cadmium | 0.0441 | 0.214 | 0.00770 | " | " | " | " | " | " |
| Copper | 4.89 | 0.428 | 0.0224 | " | " | " | " | " | " |
| Lead | 2.23 | 0.214 | 0.0588 | " | " | " | " | " | " |
| Nickel | 3.28 | 0.428 | 0.0653 | " | " | " | " | " | " |
| Selenium | 0.363 | 0.260 | 0.175 | " | " | " | " | " | " |
| Silver | 0.0120 | 0.0214 | 0.00286 | " | " | " | " | " | " |
| Zinc | 13.2 | 0.428 | 0.285 | " | " | " | " | " | " |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/09/23 12:10**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | | mg/kg dry | 1 | BGB0315 | 02/10/23 | 02/10/23 | EPA 7196A | |

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

Date Sampled: **02/09/23 12:10**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|-----|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 27.3 | 0.0535 | | mg/L dry | 1 | BGB0285 | 02/09/23 | 02/12/23 | EPA 6020B | |
| Magnesium | 7.07 | 0.0535 | | " | " | " | " | " | " | |
| Sodium | 248 | 0.0535 | | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **02/09/23 12:10**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-----|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 10.9 | 0.00100 | | units | 1 | BGB0360 | 02/13/23 | 02/13/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
02/13/23 16:30

SS04@6"
2302194-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/09/23 12:10**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | MDL | | | | | | | |
| % Solids | 93.5 | | | % | 1 | BGB0334 | 02/12/23 | 02/12/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/09/23 12:10**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Specific Conductance (EC) | 1.59 | 0.0100 | | mmhos/cm | 1 | BGB0317 | 02/10/23 | 02/10/23 | EPA 120.1 | |

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

Date Sampled: **02/09/23 12:10**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| pH | 8.02 | | | pH Units | 1 | BGB0316 | 02/10/23 | 02/10/23 | EPA 9045D | |

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
02/13/23 16:30

SS05@6"
2302194-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/09/23 12:15**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BGB0281 | 02/09/23 | 02/10/23 | 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: **02/09/23 12:15**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|-----|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | MDL | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 105 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 107 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 115 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/09/23 12:15**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BGB0282 | 02/09/23 | 02/10/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **02/09/23 12:15**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|-----|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | MDL | | | | | | | |
| Surrogate: o-Terphenyl | | 110 % | | 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 - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
02/13/23 16:30

SS05@6"
2302194-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/09/23 12:15**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-----|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | | mg/kg | 1 | BGB0296 | 02/10/23 | 02/11/23 | EPA 8270D SIM | |
| Anthracene | ND | 0.00500 | | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.00500 | | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.00500 | | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.00500 | | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.00500 | | " | " | " | " | " | " | |
| Chrysene | ND | 0.00500 | | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.00500 | | " | " | " | " | " | " | |
| Fluoranthene | ND | 0.00500 | | " | " | " | " | " | " | |
| Fluorene | ND | 0.00500 | | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | | " | " | " | " | " | " | |
| Pyrene | ND | 0.00500 | | " | " | " | " | " | " | |
| 1-Methylnaphthalene | ND | 0.00500 | | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 0.00500 | | " | " | " | " | " | " | |

Date Sampled: **02/09/23 12:15**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|-----|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | | 52.9 % | | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | | 72.4 % | | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/09/23 12:15**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|--------------|-----------------|-----|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 0.779 | 0.0100 | | mg/L | 1 | BGB0312 | 02/10/23 | 02/13/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **02/09/23 12:15**

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

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
02/13/23 16:30

SS05@6"
2302194-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|--------|---------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 1.97 | 0.215 | 0.181 | mg/kg dry | 1 | BGB0306 | 02/10/23 | 02/12/23 | EPA 6020B | |
| Barium | 42.8 | 0.431 | 0.340 | " | " | " | " | " | " | |
| Cadmium | 0.0592 | 0.215 | 0.00775 | " | " | " | " | " | " | |
| Copper | 5.58 | 0.431 | 0.0225 | " | " | " | " | " | " | |
| Lead | 2.85 | 0.215 | 0.0592 | " | " | " | " | " | " | |
| Nickel | 3.96 | 0.431 | 0.0657 | " | " | " | " | " | " | |
| Selenium | 0.449 | 0.260 | 0.175 | " | " | " | " | " | " | |
| Silver | 0.0136 | 0.0215 | 0.00288 | " | " | " | " | " | " | |
| Zinc | 16.2 | 0.431 | 0.286 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/09/23 12:15**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | | mg/kg dry | 1 | BGB0315 | 02/10/23 | 02/10/23 | EPA 7196A | |

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

Date Sampled: **02/09/23 12:15**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|-----|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 260 | 0.0539 | | mg/L dry | 1 | BGB0285 | 02/09/23 | 02/12/23 | EPA 6020B | |
| Magnesium | 22.5 | 0.0539 | | " | " | " | " | " | " | |
| Sodium | 295 | 0.0539 | | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **02/09/23 12:15**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-----|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 4.71 | 0.00100 | | units | 1 | BGB0360 | 02/13/23 | 02/13/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
02/13/23 16:30

SS05@6"
2302194-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/09/23 12:15**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | MDL | | | | | | | |
| % Solids | 92.8 | | | % | 1 | BGB0334 | 02/12/23 | 02/12/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/09/23 12:15**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Specific Conductance (EC) | 1.16 | 0.0100 | | mmhos/cm | 1 | BGB0317 | 02/10/23 | 02/10/23 | EPA 120.1 | |

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

Date Sampled: **02/09/23 12:15**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| pH | 8.90 | | | pH Units | 1 | BGB0316 | 02/10/23 | 02/10/23 | EPA 9045D | |

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
02/13/23 16:30

SS06@6"
2302194-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/09/23 12:20**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BGB0281 | 02/09/23 | 02/10/23 | 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: **02/09/23 12:20**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|-----|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | MDL | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 78.2 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 109 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 117 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/09/23 12:20**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BGB0282 | 02/09/23 | 02/10/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **02/09/23 12:20**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|-----|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | MDL | | | | | | | |
| Surrogate: o-Terphenyl | | 114 % | | 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 - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
02/13/23 16:30

SS06@6"
2302194-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/09/23 12:20**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-----|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | | mg/kg | 1 | BGB0296 | 02/10/23 | 02/11/23 | EPA 8270D SIM | |
| Anthracene | ND | 0.00500 | | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.00500 | | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.00500 | | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.00500 | | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.00500 | | " | " | " | " | " | " | |
| Chrysene | ND | 0.00500 | | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.00500 | | " | " | " | " | " | " | |
| Fluoranthene | ND | 0.00500 | | " | " | " | " | " | " | |
| Fluorene | ND | 0.00500 | | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | | " | " | " | " | " | " | |
| Pyrene | ND | 0.00500 | | " | " | " | " | " | " | |
| 1-Methylnaphthalene | ND | 0.00500 | | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 0.00500 | | " | " | " | " | " | " | |

Date Sampled: **02/09/23 12:20**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|-----|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | | 59.8 % | | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | | 68.4 % | | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/09/23 12:20**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|-------------|-----------------|-----|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 1.14 | 0.0100 | | mg/L | 1 | BGB0312 | 02/10/23 | 02/13/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **02/09/23 12:20**

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

Summit Scientific

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



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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
02/13/23 16:30

SS06@6"
2302194-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | |
|----------|--------|--------|---------|-----------|-------|----------|----------|----------|-----------|
| Arsenic | 1.86 | 0.216 | 0.182 | mg/kg dry | 1 | BGB0306 | 02/10/23 | 02/13/23 | EPA 6020B |
| Barium | 47.7 | 0.433 | 0.342 | " | " | " | " | " | " |
| Cadmium | 0.0612 | 0.216 | 0.00779 | " | " | " | " | " | " |
| Copper | 5.58 | 0.433 | 0.0226 | " | " | " | " | " | " |
| Lead | 2.85 | 0.216 | 0.0594 | " | " | " | " | " | " |
| Nickel | 3.94 | 0.433 | 0.0660 | " | " | " | " | " | " |
| Selenium | 0.296 | 0.260 | 0.175 | " | " | " | " | " | " |
| Silver | 0.0165 | 0.0216 | 0.00289 | " | " | " | " | " | " |
| Zinc | 15.9 | 0.433 | 0.288 | " | " | " | " | " | " |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/09/23 12:20**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | | mg/kg dry | 1 | BGB0315 | 02/10/23 | 02/10/23 | EPA 7196A | |

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

Date Sampled: **02/09/23 12:20**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|-----|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 39.7 | 0.0541 | | mg/L dry | 1 | BGB0285 | 02/09/23 | 02/12/23 | EPA 6020B | |
| Magnesium | 6.78 | 0.0541 | | " | " | " | " | " | " | |
| Sodium | 229 | 0.0541 | | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **02/09/23 12:20**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-----|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 8.84 | 0.00100 | | units | 1 | BGB0360 | 02/13/23 | 02/13/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
02/13/23 16:30

SS06@6"
2302194-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/09/23 12:20**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | MDL | | | | | | | |
| % Solids | 92.5 | | | % | 1 | BGB0334 | 02/12/23 | 02/12/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/09/23 12:20**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Specific Conductance (EC) | 1.58 | 0.0100 | | mmhos/cm | 1 | BGB0317 | 02/10/23 | 02/10/23 | EPA 120.1 | |

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

Date Sampled: **02/09/23 12:20**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| pH | 7.90 | | | pH Units | 1 | BGB0316 | 02/10/23 | 02/10/23 | EPA 9045D | |

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
02/13/23 16:30

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 BGB0281 - EPA 5030 Soil MS

Blank (BGB0281-BLK1)

Prepared: 02/09/23 Analyzed: 02/10/23

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene | ND | 0.0020 | mg/kg | | | | | | | |
| Toluene | ND | 0.0050 | " | | | | | | | |
| Ethylbenzene | ND | 0.0050 | " | | | | | | | |
| Xylenes (total) | ND | 0.010 | " | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | " | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | " | | | | | | | |
| Naphthalene | ND | 0.0038 | " | | | | | | | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0369 | | " | 0.0400 | | 92.2 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0404 | | " | 0.0400 | | 101 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0366 | | " | 0.0400 | | 91.5 | 50-150 | | | |

LCS (BGB0281-BS1)

Prepared: 02/09/23 Analyzed: 02/10/23

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene | 0.0835 | 0.0020 | mg/kg | 0.100 | | 83.5 | 70-130 | | | |
| Toluene | 0.0800 | 0.0050 | " | 0.100 | | 80.0 | 70-130 | | | |
| Ethylbenzene | 0.102 | 0.0050 | " | 0.100 | | 102 | 70-130 | | | |
| m,p-Xylene | 0.207 | 0.010 | " | 0.200 | | 103 | 70-130 | | | |
| o-Xylene | 0.0969 | 0.0050 | " | 0.100 | | 96.9 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.0941 | 0.0050 | " | 0.100 | | 94.1 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.0970 | 0.0050 | " | 0.100 | | 97.0 | 70-130 | | | |
| Naphthalene | 0.0821 | 0.0038 | " | 0.100 | | 82.1 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0236 | | " | 0.0400 | | 58.9 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0326 | | " | 0.0400 | | 81.4 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0241 | | " | 0.0400 | | 60.2 | 50-150 | | | |

Matrix Spike (BGB0281-MS1)

Source: 2302168-01

Prepared: 02/09/23 Analyzed: 02/10/23

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|----|------|--------|--|--|--|
| Benzene | 0.0746 | 0.0020 | mg/kg | 0.100 | ND | 74.6 | 70-130 | | | |
| Toluene | 0.100 | 0.0050 | " | 0.100 | ND | 100 | 70-130 | | | |
| Ethylbenzene | 0.102 | 0.0050 | " | 0.100 | ND | 102 | 70-130 | | | |
| m,p-Xylene | 0.208 | 0.010 | " | 0.200 | ND | 104 | 70-130 | | | |
| o-Xylene | 0.0960 | 0.0050 | " | 0.100 | ND | 96.0 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.0948 | 0.0050 | " | 0.100 | ND | 94.8 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.0983 | 0.0050 | " | 0.100 | ND | 98.3 | 70-130 | | | |
| Naphthalene | 0.0893 | 0.0038 | " | 0.100 | ND | 89.3 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0360 | | " | 0.0400 | | 90.1 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0418 | | " | 0.0400 | | 105 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0440 | | " | 0.0400 | | 110 | 50-150 | | | |

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
02/13/23 16:30

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 BGB0281 - EPA 5030 Soil MS

| Matrix Spike Dup (BGB0281-MSD1) | Source: 2302168-01 | | | Prepared: 02/09/23 Analyzed: 02/10/23 | | | | | | |
|----------------------------------|--------------------|--------|-------|---------------------------------------|----|------|--------|-------|----|--|
| Benzene | 0.0791 | 0.0020 | mg/kg | 0.100 | ND | 79.1 | 70-130 | 5.94 | 30 | |
| Toluene | 0.0952 | 0.0050 | " | 0.100 | ND | 95.2 | 70-130 | 5.04 | 30 | |
| Ethylbenzene | 0.100 | 0.0050 | " | 0.100 | ND | 100 | 70-130 | 1.90 | 30 | |
| m,p-Xylene | 0.212 | 0.010 | " | 0.200 | ND | 106 | 70-130 | 1.87 | 30 | |
| o-Xylene | 0.0955 | 0.0050 | " | 0.100 | ND | 95.5 | 70-130 | 0.501 | 30 | |
| 1,2,4-Trimethylbenzene | 0.0914 | 0.0050 | " | 0.100 | ND | 91.4 | 70-130 | 3.61 | 30 | |
| 1,3,5-Trimethylbenzene | 0.0947 | 0.0050 | " | 0.100 | ND | 94.7 | 70-130 | 3.73 | 30 | |
| Naphthalene | 0.0857 | 0.0038 | " | 0.100 | ND | 85.7 | 70-130 | 4.11 | 30 | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0402 | | " | 0.0400 | | 101 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0419 | | " | 0.0400 | | 105 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0383 | | " | 0.0400 | | 95.8 | 50-150 | | | |

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
02/13/23 16:30

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 BGB0282 - EPA 3550A

Blank (BGB0282-BLK1)

Prepared: 02/09/23 Analyzed: 02/10/23

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|--|-----|--|--------|--|--|--|
| C10-C28 (DRO) | ND | 50 | mg/kg | | | | | | | | |
| C28-C36 (ORO) | ND | 50 | " | | | | | | | | |
| Surrogate: <i>o</i> -Terphenyl | 15.9 | | " | 12.5 | | 127 | | 30-150 | | | |

LCS (BGB0282-BS1)

Prepared: 02/09/23 Analyzed: 02/10/23

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|--|-----|--|--------|--|--|--|
| C10-C28 (DRO) | 503 | 50 | mg/kg | 500 | | 101 | | 70-130 | | | |
| Surrogate: <i>o</i> -Terphenyl | 15.8 | | " | 12.5 | | 126 | | 30-150 | | | |

Matrix Spike (BGB0282-MS1)

Source: 2302167-01

Prepared: 02/09/23 Analyzed: 02/10/23

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|------|------|--|--------|--|--|--|
| C10-C28 (DRO) | 533 | 50 | mg/kg | 500 | 43.0 | 98.0 | | 70-130 | | | |
| Surrogate: <i>o</i> -Terphenyl | 15.9 | | " | 12.5 | | 127 | | 30-150 | | | |

Matrix Spike Dup (BGB0282-MSD1)

Source: 2302167-01

Prepared: 02/09/23 Analyzed: 02/10/23

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|------|------|--|--------|------|----|--|
| C10-C28 (DRO) | 540 | 50 | mg/kg | 500 | 43.0 | 99.4 | | 70-130 | 1.36 | 20 | |
| Surrogate: <i>o</i> -Terphenyl | 16.0 | | " | 12.5 | | 128 | | 30-150 | | | |

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
02/13/23 16:30

PAH by EPA Method 8270D SIM - Quality Control
Summit Scientific

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

Batch BGB0296 - EPA 5030 Soil MS

Blank (BGB0296-BLK1)

Prepared & Analyzed: 02/10/23

| | | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|--|------|--|--------|--|--|
| Acenaphthene | ND | 0.00500 | mg/kg | | | | | | | |
| Anthracene | ND | 0.00500 | " | | | | | | | |
| Benzo (a) anthracene | ND | 0.00500 | " | | | | | | | |
| Benzo (a) pyrene | ND | 0.00500 | " | | | | | | | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | | | | | | | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | | | | | | | |
| Chrysene | ND | 0.00500 | " | | | | | | | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | | | | | | | |
| Fluoranthene | ND | 0.00500 | " | | | | | | | |
| Fluorene | ND | 0.00500 | " | | | | | | | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | | | | | | | |
| Pyrene | ND | 0.00500 | " | | | | | | | |
| 1-Methylnaphthalene | ND | 0.00500 | " | | | | | | | |
| 2-Methylnaphthalene | ND | 0.00500 | " | | | | | | | |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0237 | | " | 0.0333 | | 71.0 | | 40-150 | | |
| Surrogate: Fluoranthene-d10 | 0.0304 | | " | 0.0333 | | 91.2 | | 40-150 | | |

LCS (BGB0296-BS1)

Prepared & Analyzed: 02/10/23

| | | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|--|------|--|--------|--|--|
| Acenaphthene | 0.0314 | 0.00500 | mg/kg | 0.0333 | | 94.2 | | 31-137 | | |
| Anthracene | 0.0329 | 0.00500 | " | 0.0333 | | 98.6 | | 30-120 | | |
| Benzo (a) anthracene | 0.0299 | 0.00500 | " | 0.0333 | | 89.7 | | 30-120 | | |
| Benzo (a) pyrene | 0.0268 | 0.00500 | " | 0.0333 | | 80.4 | | 30-120 | | |
| Benzo (b) fluoranthene | 0.0278 | 0.00500 | " | 0.0333 | | 83.3 | | 30-120 | | |
| Benzo (k) fluoranthene | 0.0272 | 0.00500 | " | 0.0333 | | 81.5 | | 30-120 | | |
| Chrysene | 0.0302 | 0.00500 | " | 0.0333 | | 90.7 | | 30-120 | | |
| Dibenz (a,h) anthracene | 0.0223 | 0.00500 | " | 0.0333 | | 66.9 | | 30-120 | | |
| Fluoranthene | 0.0320 | 0.00500 | " | 0.0333 | | 96.1 | | 30-120 | | |
| Fluorene | 0.0317 | 0.00500 | " | 0.0333 | | 95.0 | | 30-120 | | |
| Indeno (1,2,3-cd) pyrene | 0.0240 | 0.00500 | " | 0.0333 | | 72.0 | | 30-120 | | |
| Pyrene | 0.0323 | 0.00500 | " | 0.0333 | | 96.8 | | 35-142 | | |
| 1-Methylnaphthalene | 0.0311 | 0.00500 | " | 0.0333 | | 93.4 | | 35-142 | | |
| 2-Methylnaphthalene | 0.0304 | 0.00500 | " | 0.0333 | | 91.3 | | 35-142 | | |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0293 | | " | 0.0333 | | 88.0 | | 40-150 | | |
| Surrogate: Fluoranthene-d10 | 0.0314 | | " | 0.0333 | | 94.2 | | 40-150 | | |

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
02/13/23 16:30

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 BGB0296 - EPA 5030 Soil MS

| Matrix Spike (BGB0296-MS1) | Source: 2302163-01 | | | Prepared & Analyzed: 02/10/23 | | | | | | |
|------------------------------------|--------------------|---------|-------|-------------------------------|----|------|--------|--|--|--|
| Acenaphthene | 0.0193 | 0.00500 | mg/kg | 0.0333 | ND | 57.9 | 31-137 | | | |
| Anthracene | 0.0192 | 0.00500 | " | 0.0333 | ND | 57.6 | 30-120 | | | |
| Benzo (a) anthracene | 0.0187 | 0.00500 | " | 0.0333 | ND | 56.1 | 30-120 | | | |
| Benzo (a) pyrene | 0.0164 | 0.00500 | " | 0.0333 | ND | 49.3 | 30-120 | | | |
| Benzo (b) fluoranthene | 0.0164 | 0.00500 | " | 0.0333 | ND | 49.1 | 30-120 | | | |
| Benzo (k) fluoranthene | 0.0161 | 0.00500 | " | 0.0333 | ND | 48.4 | 30-120 | | | |
| Chrysene | 0.0177 | 0.00500 | " | 0.0333 | ND | 53.0 | 30-120 | | | |
| Dibenz (a,h) anthracene | 0.0156 | 0.00500 | " | 0.0333 | ND | 46.9 | 30-120 | | | |
| Fluoranthene | 0.0190 | 0.00500 | " | 0.0333 | ND | 57.0 | 30-120 | | | |
| Fluorene | 0.0191 | 0.00500 | " | 0.0333 | ND | 57.4 | 30-120 | | | |
| Indeno (1,2,3-cd) pyrene | 0.0144 | 0.00500 | " | 0.0333 | ND | 43.2 | 30-120 | | | |
| Pyrene | 0.0193 | 0.00500 | " | 0.0333 | ND | 57.9 | 35-142 | | | |
| 1-Methylnaphthalene | 0.0204 | 0.00500 | " | 0.0333 | ND | 61.3 | 15-130 | | | |
| 2-Methylnaphthalene | 0.0210 | 0.00500 | " | 0.0333 | ND | 62.9 | 15-130 | | | |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0179 | | " | 0.0333 | | 53.8 | 40-150 | | | |
| Surrogate: Fluoranthene-d10 | 0.0201 | | " | 0.0333 | | 60.2 | 40-150 | | | |

| Matrix Spike Dup (BGB0296-MSD1) | Source: 2302163-01 | | | Prepared & Analyzed: 02/10/23 | | | | | | |
|------------------------------------|--------------------|---------|-------|-------------------------------|----|------|--------|------|----|--|
| Acenaphthene | 0.0197 | 0.00500 | mg/kg | 0.0333 | ND | 59.2 | 31-137 | 2.33 | 30 | |
| Anthracene | 0.0203 | 0.00500 | " | 0.0333 | ND | 61.0 | 30-120 | 5.73 | 30 | |
| Benzo (a) anthracene | 0.0182 | 0.00500 | " | 0.0333 | ND | 54.7 | 30-120 | 2.53 | 30 | |
| Benzo (a) pyrene | 0.0156 | 0.00500 | " | 0.0333 | ND | 46.8 | 30-120 | 5.13 | 30 | |
| Benzo (b) fluoranthene | 0.0154 | 0.00500 | " | 0.0333 | ND | 46.3 | 30-120 | 5.81 | 30 | |
| Benzo (k) fluoranthene | 0.0153 | 0.00500 | " | 0.0333 | ND | 46.0 | 30-120 | 5.06 | 30 | |
| Chrysene | 0.0174 | 0.00500 | " | 0.0333 | ND | 52.1 | 30-120 | 1.72 | 30 | |
| Dibenz (a,h) anthracene | 0.0158 | 0.00500 | " | 0.0333 | ND | 47.4 | 30-120 | 1.17 | 30 | |
| Fluoranthene | 0.0195 | 0.00500 | " | 0.0333 | ND | 58.6 | 30-120 | 2.74 | 30 | |
| Fluorene | 0.0195 | 0.00500 | " | 0.0333 | ND | 58.6 | 30-120 | 2.16 | 30 | |
| Indeno (1,2,3-cd) pyrene | 0.0141 | 0.00500 | " | 0.0333 | ND | 42.2 | 30-120 | 2.49 | 30 | |
| Pyrene | 0.0190 | 0.00500 | " | 0.0333 | ND | 57.1 | 35-142 | 1.44 | 30 | |
| 1-Methylnaphthalene | 0.0208 | 0.00500 | " | 0.0333 | ND | 62.5 | 15-130 | 1.83 | 50 | |
| 2-Methylnaphthalene | 0.0182 | 0.00500 | " | 0.0333 | ND | 54.7 | 15-130 | 13.8 | 50 | |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0171 | | " | 0.0333 | | 51.4 | 40-150 | | | |
| Surrogate: Fluoranthene-d10 | 0.0188 | | " | 0.0333 | | 56.5 | 40-150 | | | |

Summit Scientific

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

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
02/13/23 16:30

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

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

Batch BGB0312 - EPA 3050B

Blank (BGB0312-BLK1)

Prepared: 02/10/23 Analyzed: 02/12/23

Boron ND 0.0100 mg/L

LCS (BGB0312-BS1)

Prepared: 02/10/23 Analyzed: 02/12/23

Boron 5.75 0.0100 mg/L 5.00 115 80-120

Duplicate (BGB0312-DUP1)

Source: 2302124-01

Prepared: 02/10/23 Analyzed: 02/12/23

Boron 0.146 0.0100 mg/L 0.183 22.1 20 QR-03

Matrix Spike (BGB0312-MS1)

Source: 2302124-01

Prepared: 02/10/23 Analyzed: 02/12/23

Boron 6.22 0.0100 mg/L 5.00 0.183 121 75-125

Matrix Spike Dup (BGB0312-MSD1)

Source: 2302124-01

Prepared: 02/10/23 Analyzed: 02/12/23

Boron 6.59 0.0100 mg/L 5.00 0.183 128 75-125 5.79 25 QM-07

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
02/13/23 16:30

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 BGB0306 - EPA 3050B

Blank (BGB0306-BLK1)

Prepared: 02/10/23 Analyzed: 02/12/23

| | | | | | | | | | | |
|----------|----|--------|-----------|--|--|--|--|--|--|--|
| Arsenic | ND | 0.200 | mg/kg wet | | | | | | | |
| Barium | ND | 0.400 | " | | | | | | | |
| Cadmium | ND | 0.200 | " | | | | | | | |
| Copper | ND | 0.400 | " | | | | | | | |
| Lead | ND | 0.200 | " | | | | | | | |
| Nickel | ND | 0.400 | " | | | | | | | |
| Selenium | ND | 0.260 | " | | | | | | | |
| Silver | ND | 0.0200 | " | | | | | | | |
| Zinc | ND | 0.400 | " | | | | | | | |

LCS (BGB0306-BS1)

Prepared: 02/10/23 Analyzed: 02/12/23

| | | | | | | | | | | |
|----------|------|--------|-----------|------|-----|--------|--|--|--|--|
| Arsenic | 45.2 | 0.200 | mg/kg wet | 40.0 | 113 | 80-120 | | | | |
| Barium | 47.3 | 0.400 | " | 40.0 | 118 | 80-120 | | | | |
| Cadmium | 2.38 | 0.200 | " | 2.00 | 119 | 80-120 | | | | |
| Copper | 47.3 | 0.400 | " | 40.0 | 118 | 80-120 | | | | |
| Lead | 22.8 | 0.200 | " | 20.0 | 114 | 80-120 | | | | |
| Nickel | 46.9 | 0.400 | " | 40.0 | 117 | 80-120 | | | | |
| Selenium | 4.55 | 0.260 | " | 4.00 | 114 | 80-120 | | | | |
| Silver | 2.21 | 0.0200 | " | 2.00 | 110 | 80-120 | | | | |
| Zinc | 45.0 | 0.400 | " | 40.0 | 112 | 80-120 | | | | |

Duplicate (BGB0306-DUP1)

Source: 2301163-02

Prepared: 02/10/23 Analyzed: 02/12/23

| | | | | | | | | | | |
|----------|--------|--------|-----------|--------|------|----|--|--|--|-------|
| Arsenic | 1.44 | 0.200 | mg/kg wet | 1.40 | 2.25 | 20 | | | | |
| Barium | 30.6 | 0.400 | " | 22.5 | 30.4 | 20 | | | | QR-03 |
| Cadmium | 0.0808 | 0.200 | " | 0.0473 | 52.3 | 20 | | | | QR-01 |
| Copper | 2.59 | 0.400 | " | 2.22 | 15.8 | 20 | | | | |
| Lead | 3.09 | 0.200 | " | 2.52 | 20.3 | 20 | | | | QR-03 |
| Nickel | 3.41 | 0.400 | " | 2.51 | 30.3 | 20 | | | | QR-03 |
| Selenium | 0.422 | 0.260 | " | 0.267 | 45.1 | 20 | | | | QR-03 |
| Silver | 0.0165 | 0.0200 | " | 0.0122 | 29.7 | 20 | | | | QR-01 |
| Zinc | 15.7 | 0.400 | " | 11.5 | 30.8 | 20 | | | | QR-03 |

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
02/13/23 16:30

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 BGB0306 - EPA 3050B

Matrix Spike (BGB0306-MS1)

Source: 2301163-02

Prepared: 02/10/23 Analyzed: 02/12/23

| | | | | | | | | | | |
|----------|------|--------|-----------|------|--------|------|--------|--|--|--|
| Arsenic | 44.7 | 0.200 | mg/kg wet | 40.0 | 1.40 | 108 | 75-125 | | | |
| Barium | 62.4 | 0.400 | " | 40.0 | 22.5 | 99.8 | 75-125 | | | |
| Cadmium | 2.09 | 0.200 | " | 2.00 | 0.0473 | 102 | 75-125 | | | |
| Copper | 42.7 | 0.400 | " | 40.0 | 2.22 | 101 | 75-125 | | | |
| Lead | 21.3 | 0.200 | " | 20.0 | 2.52 | 93.9 | 75-125 | | | |
| Nickel | 43.4 | 0.400 | " | 40.0 | 2.51 | 102 | 75-125 | | | |
| Selenium | 4.02 | 0.260 | " | 4.00 | 0.267 | 93.7 | 75-125 | | | |
| Silver | 1.97 | 0.0200 | " | 2.00 | 0.0122 | 97.9 | 75-125 | | | |
| Zinc | 55.8 | 0.400 | " | 40.0 | 11.5 | 111 | 75-125 | | | |

Matrix Spike Dup (BGB0306-MSD1)

Source: 2301163-02

Prepared: 02/10/23 Analyzed: 02/12/23

| | | | | | | | | | |
|----------|------|--------|-----------|------|--------|-----|--------|------|----|
| Arsenic | 46.6 | 0.200 | mg/kg wet | 40.0 | 1.40 | 113 | 75-125 | 4.25 | 25 |
| Barium | 66.3 | 0.400 | " | 40.0 | 22.5 | 109 | 75-125 | 6.01 | 25 |
| Cadmium | 2.22 | 0.200 | " | 2.00 | 0.0473 | 108 | 75-125 | 5.89 | 25 |
| Copper | 44.8 | 0.400 | " | 40.0 | 2.22 | 106 | 75-125 | 4.80 | 25 |
| Lead | 22.6 | 0.200 | " | 20.0 | 2.52 | 101 | 75-125 | 6.08 | 25 |
| Nickel | 45.1 | 0.400 | " | 40.0 | 2.51 | 107 | 75-125 | 3.99 | 25 |
| Selenium | 4.59 | 0.260 | " | 4.00 | 0.267 | 108 | 75-125 | 13.3 | 25 |
| Silver | 2.06 | 0.0200 | " | 2.00 | 0.0122 | 102 | 75-125 | 4.41 | 25 |
| Zinc | 58.7 | 0.400 | " | 40.0 | 11.5 | 118 | 75-125 | 5.09 | 25 |

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
02/13/23 16:30

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGB0315 - 3060A Mod

Blank (BGB0315-BLK1)

Prepared & Analyzed: 02/10/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGB0315-BS1)

Prepared & Analyzed: 02/10/23

Chromium, Hexavalent 25.8 0.30 mg/kg wet 25.0 103 80-120

Duplicate (BGB0315-DUP1)

Source: 2302190-01

Prepared & Analyzed: 02/10/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGB0315-MS1)

Source: 2302190-01

Prepared & Analyzed: 02/10/23

Chromium, Hexavalent 31.1 0.30 mg/kg dry 29.8 ND 104 75-125

Matrix Spike Dup (BGB0315-MSD1)

Source: 2302190-01

Prepared & Analyzed: 02/10/23

Chromium, Hexavalent 31.2 0.30 mg/kg dry 29.8 ND 105 75-125 0.383 20

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
02/13/23 16:30

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 BGB0285 - General Preparation

Blank (BGB0285-BLK1)

Prepared: 02/09/23 Analyzed: 02/12/23

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

LCS (BGB0285-BS1)

Prepared: 02/09/23 Analyzed: 02/12/23

| | | | | | | | | | | |
|-----------|------|--------|----------|------|--|-----|--------|--|--|--|
| Calcium | 5.10 | 0.0500 | mg/L wet | 5.00 | | 102 | 70-130 | | | |
| Magnesium | 5.19 | 0.0500 | " | 5.00 | | 104 | 70-130 | | | |
| Sodium | 5.47 | 0.0500 | " | 5.00 | | 109 | 70-130 | | | |

Summit Scientific

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| | | |
|--|--|------------------------------------|
| Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020 | Project: Noble - SLW Ranch B12-65-1HN Project Number: [none] Project Manager: Jacob Whritenour | Reported: 02/13/23 16:30 |
|--|--|------------------------------------|

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 BGB0334 - General Preparation

| | | | | | | | | | | |
|---------------------------------|---------------------------|--|--|--|------|--|--|-------|--|----|
| Duplicate (BGB0334-DUP1) | Source: 2302188-01 | | Prepared & Analyzed: 02/12/23 | | | | | | | |
| % Solids | 88.7 | | % | | 89.5 | | | 0.965 | | 20 |

Summit Scientific

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| | | |
|--|--|------------------------------------|
| Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020 | Project: Noble - SLW Ranch B12-65-1HN Project Number: [none] Project Manager: Jacob Whritenour | Reported: 02/13/23 16:30 |
|--|--|------------------------------------|

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 BGB0317 - General Preparation

| | | | | | | | | | | | |
|---------------------------------|-------|--|----------|-------|------|--------|--|--|------|----|--|
| Blank (BGB0317-BLK1) | | Prepared & Analyzed: 02/10/23 | | | | | | | | | |
| Specific Conductance (EC) | ND | 0.0100 | mmhos/cm | | | | | | | | |
| LCS (BGB0317-BS1) | | Prepared & Analyzed: 02/10/23 | | | | | | | | | |
| Specific Conductance (EC) | 0.151 | 0.0100 | mmhos/cm | 0.150 | 101 | 95-105 | | | | | |
| Duplicate (BGB0317-DUP1) | | Source: 2302184-01 Prepared & Analyzed: 02/10/23 | | | | | | | | | |
| Specific Conductance (EC) | 1.22 | 0.0100 | mmhos/cm | | 1.24 | | | | 1.71 | 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 - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
02/13/23 16:30

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 BGB0316 - General Preparation

LCS (BGB0316-BS1)

Prepared & Analyzed: 02/10/23

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

Duplicate (BGB0316-DUP1)

Source: 2302184-01

Prepared & Analyzed: 02/10/23

| | | | | | |
|----|------|----------|------|------|----|
| pH | 7.70 | pH Units | 7.60 | 1.31 | 20 |
|----|------|----------|------|------|----|

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
02/13/23 16:30

Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

March 21, 2023

Jacob Whritenour

Tasman Geosciences

6855 W. 119th Ave.

Broomfeld, CO 80020

RE: Noble - SLW Ranch B12-55-1HN

Work Order # 2303447

Enclosed are the results of analyses for samples received by Summit Scientific on 03/16/23 17:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Sheely". The signature is written in a cursive style with a large initial "S".

Scott Sheely For Paul Shrewsbury

President

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

Project: Noble - SLW Ranch B12-55-1HN

Project Number: [none]
 Project Manager: Jacob Whritenour

Reported:
 03/21/23 13:25

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| BG01@0.5' | 2303447-01 | Soil | 03/16/23 11:45 | 03/16/23 17:30 |
| BG01@3' | 2303447-02 | Soil | 03/16/23 11:45 | 03/16/23 17:30 |
| BG02@0.5' | 2303447-03 | Soil | 03/16/23 11:50 | 03/16/23 17:30 |
| BG02@3' | 2303447-04 | Soil | 03/16/23 11:50 | 03/16/23 17:30 |
| BG03@0.5' | 2303447-05 | Soil | 03/16/23 11:55 | 03/16/23 17:30 |
| BG03@3' | 2303447-06 | Soil | 03/16/23 11:55 | 03/16/23 17:30 |
| BG04@0.5' | 2303447-07 | Soil | 03/16/23 12:00 | 03/16/23 17:30 |
| BG04@3' | 2303447-08 | Soil | 03/16/23 12:00 | 03/16/23 17:30 |
| BG05@0.5' | 2303447-09 | Soil | 03/16/23 12:05 | 03/16/23 17:30 |
| BG05@3' | 2303447-10 | Soil | 03/16/23 12:05 | 03/16/23 17:30 |

Summit Scientific

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



SUMMIT SCIENTIFIC

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

| | |
|-----------------|-------------|
| Lab ID | Page) of) |
| 2303 448 | |

| | | |
|--|--|-------------------------|
| Send Data To: | | Send Invoice To: |
| Client: Noble / Tasman | Project Manager: Jake Whritenour | Company: Chevron |
| Address: 6855 W. 119th Ave | E-Mail: Jwhritenour@tasman-geo.com | Project Name/Location: |
| City/State/Zip: Broomfield, CO 80020 | | AFE#: |
| Phone: 303-261-6246 303-808-3315 | Project Name: <i>SW Reach B12-65-1HN</i> | PO/Billing Codes: |
| Sampler Name: Stanley Gilbert <i>Alana Engelhardt</i> | Project Number: | Contact: |

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative | | | | Matrix | | | Analysis Requested | | | | | | Special Instructions | |
|----|--------------------|----------------|--------------|-----------------|--------------|------|----------|-------|--------|----------|----------------|--------------------|-----------|-----------|-----------|-------------|-------------|----------------------|--------------------------------|
| | | | | | HCl | HNO3 | None | Other | Water | Soil | Air-Canister # | Other | VOC - 915 | TPH - 915 | PAH - 915 | pH, EC, SAR | Boron - HWS | | Metals - 915 |
| 1 | <i>B601@0.5'</i> | <i>3/16/23</i> | <i>1145</i> | <i>2</i> | | | <i>X</i> | | | <i>X</i> | | | | | <i>X</i> | <i>X</i> | <i>X</i> | | pH, EC, SAR by saturated paste |
| 2 | <i>B601@3'</i> | | <i>1145</i> | | | | | | | | | | | | <i>X</i> | <i>X</i> | <i>X</i> | | |
| 3 | <i>B602@0.5'</i> | | <i>1150</i> | | | | | | | | | | | | <i>X</i> | <i>X</i> | <i>X</i> | | |
| 4 | <i>B602@3'</i> | | <i>1150</i> | | | | | | | | | | | | <i>X</i> | <i>X</i> | <i>X</i> | | |
| 5 | <i>B603@0.5'</i> | | <i>1156</i> | | | | | | | | | | | | <i>X</i> | <i>X</i> | <i>X</i> | | |
| 6 | <i>B603@3'</i> | | <i>1155</i> | | | | | | | | | | | | <i>X</i> | <i>X</i> | <i>X</i> | | |
| 7 | <i>B604@0.5'</i> | | <i>1200</i> | | | | | | | | | | | | <i>X</i> | <i>X</i> | <i>X</i> | | |
| 8 | <i>B604@2'</i> | | <i>1200</i> | | | | | | | | | | | | <i>X</i> | <i>X</i> | <i>X</i> | | |
| 9 | <i>B605@0.5'</i> | | <i>1205</i> | | | | | | | | | | | | <i>X</i> | <i>X</i> | <i>X</i> | | |
| 10 | <i>B605@2'</i> | <i>✓</i> | <i>1203</i> | <i>✓</i> | | | | | | | | | | | <i>X</i> | <i>X</i> | <i>X</i> | | |
| 11 | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | |

| | | | | | | |
|--------------------------------------|---------------------------------|---------------------------------|--------------------------------|--|-------------|--------|
| Relinquished by: <i>[Signature]</i> | Date/Time: <i>3/16/23 1730</i> | Received by: <i>[Signature]</i> | Date/Time: <i>3/16/23 1730</i> | TAT Business Days | Field DO | Notes: |
| | | | | Same Day <input checked="" type="checkbox"/> | Field EC | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 1 Day | Field ORP | |
| | | | | 2 Days | Field pH | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 3 Days | Field Temp. | |
| | | | | Standard | Field Turb. | |
| Temperature Upon Receipt: <i>8.9</i> | Corrected Temperature: <i>0</i> | IR gun #: | | HNO3 lot #: | | |

S₂

Sample Receipt Checklist

S2 Work Order# 2307442

Client: NobleFasman

Client Project ID: SLW Ranch B12-CES-1HN

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

Airbill #: _____

Five empty boxes for shipping carrier selection.

Matrix (Check all that apply)

Air

Soil/Solid

Water

Other

Temp (°C)

8.9

Thermometer #

1

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

Additional Comments (if any):

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

3.16.23

Custodian Printed Name

[Signature]

Date/Time



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

Project: Noble - SLW Ranch B12-55-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/21/23 13:25

BG01@0.5'
2303447-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/16/23 11:45**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|---------------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Boron | 0.0843 | 0.0100 | | mg/L | 1 | BGC0520 | 03/17/23 | 03/20/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **03/16/23 11:45**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------|----------------|-----------|---------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Arsenic | 1.87 | 0.211 | 0.178 | mg/kg dry | 1 | BGC0510 | 03/16/23 | 03/18/23 | EPA 6020B | |
| Barium | 26.6 | 0.422 | 0.333 | " | " | " | " | " | " | |
| Cadmium | 0.101 | 0.211 | 0.00759 | " | " | " | " | " | " | |
| Copper | 1.80 | 0.422 | 0.0220 | " | " | " | " | " | " | |
| Lead | 2.83 | 0.211 | 0.0580 | " | " | " | " | " | " | |
| Nickel | 1.50 | 0.422 | 0.0643 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | 0.175 | " | " | " | " | " | " | |
| Silver | 0.00886 | 0.0211 | 0.00282 | " | " | " | " | " | " | |
| Zinc | 6.84 | 0.422 | 0.280 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/16/23 11:45**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | | mg/kg dry | 1 | BGC0639 | 03/20/23 | 03/20/23 | EPA 7196A | |

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

Date Sampled: **03/16/23 11:45**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------|-------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Calcium | 48.9 | 0.0527 | | mg/L dry | 1 | BGC0546 | 03/17/23 | 03/20/23 | EPA 6020B | |
| Magnesium | 13.1 | 0.0527 | | " | " | " | " | " | " | |
| Sodium | 5.39 | 0.0527 | | " | " | " | " | " | " | |

Summit Scientific

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

Project: Noble - SLW Ranch B12-55-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/21/23 13:25

BG01@0.5'
2303447-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/16/23 11:45**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-----|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.177 | 0.00100 | | units | 1 | BGC0620 | 03/20/23 | 03/20/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/16/23 11:45**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-----|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 94.8 | | | % | 1 | BGC0522 | 03/17/23 | 03/17/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/16/23 11:45**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|-----|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.148 | 0.0100 | | mmhos/cm | 1 | BGC0566 | 03/18/23 | 03/20/23 | EPA 120.1 | |

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

Date Sampled: **03/16/23 11:45**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-----|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.42 | | | pH Units | 1 | BGC0567 | 03/18/23 | 03/20/23 | EPA 9045D | |

Summit Scientific

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

Project: Noble - SLW Ranch B12-55-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/21/23 13:25

BG01@3'
2303447-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/16/23 11:45**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|---------------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Boron | 0.0472 | 0.0100 | | mg/L | 1 | BGC0520 | 03/17/23 | 03/20/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **03/16/23 11:45**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------|----------------|-----------|---------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Arsenic | 0.722 | 0.203 | 0.171 | mg/kg dry | 1 | BGC0510 | 03/16/23 | 03/18/23 | EPA 6020B | |
| Barium | 22.4 | 0.406 | 0.320 | " | " | " | " | " | " | " |
| Cadmium | 0.0454 | 0.203 | 0.00730 | " | " | " | " | " | " | " |
| Copper | 1.03 | 0.406 | 0.0212 | " | " | " | " | " | " | " |
| Lead | 1.61 | 0.203 | 0.0557 | " | " | " | " | " | " | " |
| Nickel | 0.827 | 0.406 | 0.0619 | " | " | " | " | " | " | " |
| Selenium | ND | 0.260 | 0.175 | " | " | " | " | " | " | " |
| Silver | 0.00730 | 0.0203 | 0.00271 | " | " | " | " | " | " | " |
| Zinc | 3.73 | 0.406 | 0.270 | " | " | " | " | " | " | " |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/16/23 11:45**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | | mg/kg dry | 1 | BGC0639 | 03/20/23 | 03/20/23 | EPA 7196A | |

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

Date Sampled: **03/16/23 11:45**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------|-------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Calcium | 61.8 | 0.0507 | | mg/L dry | 1 | BGC0546 | 03/17/23 | 03/20/23 | EPA 6020B | |
| Magnesium | 9.20 | 0.0507 | | " | " | " | " | " | " | " |
| Sodium | 6.21 | 0.0507 | | " | " | " | " | " | " | " |

Summit Scientific

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

Project: Noble - SLW Ranch B12-55-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/21/23 13:25

BG01@3'
2303447-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/16/23 11:45**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | MDL | | | | | | | |
| Sodium Adsorption Ratio | 0.195 | 0.00100 | | units | 1 | BGC0620 | 03/20/23 | 03/20/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/16/23 11:45**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | MDL | | | | | | | |
| % Solids | 98.6 | | | % | 1 | BGC0522 | 03/17/23 | 03/17/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/16/23 11:45**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Specific Conductance (EC) | 0.138 | 0.0100 | | mmhos/cm | 1 | BGC0566 | 03/18/23 | 03/20/23 | EPA 120.1 | |

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

Date Sampled: **03/16/23 11:45**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|-------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| pH | 8.53 | | | pH Units | 1 | BGC0567 | 03/18/23 | 03/20/23 | EPA 9045D | |

Summit Scientific

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

Project: Noble - SLW Ranch B12-55-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/21/23 13:25

BG02@0.5'
2303447-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/16/23 11:50**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|--------------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Boron | 0.225 | 0.0100 | | mg/L | 1 | BGC0520 | 03/17/23 | 03/20/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **03/16/23 11:50**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------|---------------|-----------|---------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Arsenic | 0.722 | 0.216 | 0.182 | mg/kg dry | 1 | BGC0510 | 03/16/23 | 03/18/23 | EPA 6020B | |
| Barium | 18.0 | 0.432 | 0.342 | " | " | " | " | " | " | " |
| Cadmium | 0.0770 | 0.216 | 0.00778 | " | " | " | " | " | " | " |
| Copper | 1.65 | 0.432 | 0.0226 | " | " | " | " | " | " | " |
| Lead | 2.87 | 0.216 | 0.0594 | " | " | " | " | " | " | " |
| Nickel | 1.29 | 0.432 | 0.0659 | " | " | " | " | " | " | " |
| Selenium | ND | 0.260 | 0.175 | " | " | " | " | " | " | " |
| Silver | 0.0264 | 0.0216 | 0.00289 | " | " | " | " | " | " | " |
| Zinc | 6.34 | 0.432 | 0.288 | " | " | " | " | " | " | " |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/16/23 11:50**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | | mg/kg dry | 1 | BGC0639 | 03/20/23 | 03/20/23 | EPA 7196A | |

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

Date Sampled: **03/16/23 11:50**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------|-------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Calcium | 125 | 0.0540 | | mg/L dry | 1 | BGC0546 | 03/17/23 | 03/20/23 | EPA 6020B | |
| Magnesium | 47.8 | 0.0540 | | " | " | " | " | " | " | " |
| Sodium | 2.13 | 0.0540 | | " | " | " | " | " | " | " |

Summit Scientific

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

Project: Noble - SLW Ranch B12-55-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/21/23 13:25

BG02@0.5'
2303447-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/16/23 11:50**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-----|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0411 | 0.00100 | | units | 1 | BGC0620 | 03/20/23 | 03/20/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/16/23 11:50**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-----|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 92.5 | | | % | 1 | BGC0522 | 03/17/23 | 03/17/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/16/23 11:50**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|-----|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.185 | 0.0100 | | mmhos/cm | 1 | BGC0566 | 03/18/23 | 03/20/23 | EPA 120.1 | |

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

Date Sampled: **03/16/23 11:50**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-----|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.27 | | | pH Units | 1 | BGC0567 | 03/18/23 | 03/20/23 | EPA 9045D | |

Summit Scientific

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



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

Project: Noble - SLW Ranch B12-55-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/21/23 13:25

BG02@3'
2303447-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/16/23 11:50**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|--------------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Boron | 0.109 | 0.0100 | | mg/L | 1 | BGC0520 | 03/17/23 | 03/20/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **03/16/23 11:50**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------|---------------|-----------|---------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Arsenic | 2.71 | 0.204 | 0.172 | mg/kg dry | 1 | BGC0510 | 03/16/23 | 03/18/23 | EPA 6020B | |
| Barium | 35.2 | 0.408 | 0.322 | " | " | " | " | " | " | |
| Cadmium | 0.105 | 0.204 | 0.00734 | " | " | " | " | " | " | |
| Copper | 2.26 | 0.408 | 0.0213 | " | " | " | " | " | " | |
| Lead | 2.70 | 0.204 | 0.0560 | " | " | " | " | " | " | |
| Nickel | 1.47 | 0.408 | 0.0622 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | 0.175 | " | " | " | " | " | " | |
| Silver | 0.0106 | 0.0204 | 0.00272 | " | " | " | " | " | " | |
| Zinc | 6.20 | 0.408 | 0.271 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/16/23 11:50**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | | mg/kg dry | 1 | BGC0639 | 03/20/23 | 03/20/23 | EPA 7196A | |

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

Date Sampled: **03/16/23 11:50**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------|-------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Calcium | 21.1 | 0.0510 | | mg/L dry | 1 | BGC0546 | 03/17/23 | 03/20/23 | EPA 6020B | |
| Magnesium | 6.98 | 0.0510 | | " | " | " | " | " | " | |
| Sodium | 7.00 | 0.0510 | | " | " | " | " | " | " | |

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 - SLW Ranch B12-55-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/21/23 13:25

BG02@3'
2303447-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/16/23 11:50**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | MDL | | | | | | | |
| Sodium Adsorption Ratio | 0.338 | 0.00100 | | units | 1 | BGC0620 | 03/20/23 | 03/20/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/16/23 11:50**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | MDL | | | | | | | |
| % Solids | 98.1 | | | % | 1 | BGC0522 | 03/17/23 | 03/17/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/16/23 11:50**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Specific Conductance (EC) | 0.176 | 0.0100 | | mmhos/cm | 1 | BGC0566 | 03/18/23 | 03/20/23 | EPA 120.1 | |

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

Date Sampled: **03/16/23 11:50**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|-------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| pH | 8.30 | | | pH Units | 1 | BGC0567 | 03/18/23 | 03/20/23 | EPA 9045D | |

Summit Scientific

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



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

Project: Noble - SLW Ranch B12-55-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/21/23 13:25

BG03@0.5'
2303447-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/16/23 11:55**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|--------------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Boron | 0.395 | 0.0100 | | mg/L | 1 | BGC0520 | 03/17/23 | 03/20/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **03/16/23 11:55**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------|---------------|-----------|---------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Arsenic | 1.25 | 0.214 | 0.180 | mg/kg dry | 1 | BGC0510 | 03/16/23 | 03/18/23 | EPA 6020B | |
| Barium | 25.5 | 0.428 | 0.338 | " | " | " | " | " | " | |
| Cadmium | 0.105 | 0.214 | 0.00770 | " | " | " | " | " | " | |
| Copper | 2.13 | 0.428 | 0.0224 | " | " | " | " | " | " | |
| Lead | 3.81 | 0.214 | 0.0588 | " | " | " | " | " | " | |
| Nickel | 1.71 | 0.428 | 0.0653 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | 0.175 | " | " | " | " | " | " | |
| Silver | 0.0257 | 0.0214 | 0.00286 | " | " | " | " | " | " | |
| Zinc | 8.09 | 0.428 | 0.285 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/16/23 11:55**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | | mg/kg dry | 1 | BGC0639 | 03/20/23 | 03/20/23 | EPA 7196A | |

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

Date Sampled: **03/16/23 11:55**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------|-------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Calcium | 103 | 0.0535 | | mg/L dry | 1 | BGC0546 | 03/17/23 | 03/20/23 | EPA 6020B | |
| Magnesium | 28.8 | 0.0535 | | " | " | " | " | " | " | |
| Sodium | 4.34 | 0.0535 | | " | " | " | " | " | " | |

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 - SLW Ranch B12-55-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/21/23 13:25

BG03@0.5'
2303447-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/16/23 11:55**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-----|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0974 | 0.00100 | | units | 1 | BGC0620 | 03/20/23 | 03/20/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/16/23 11:55**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-----|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 93.5 | | | % | 1 | BGC0522 | 03/17/23 | 03/17/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/16/23 11:55**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|-----|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.321 | 0.0100 | | mmhos/cm | 1 | BGC0566 | 03/18/23 | 03/20/23 | EPA 120.1 | |

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

Date Sampled: **03/16/23 11:55**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-----|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.82 | | | pH Units | 1 | BGC0567 | 03/18/23 | 03/20/23 | EPA 9045D | |

Summit Scientific

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

Project: Noble - SLW Ranch B12-55-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/21/23 13:25

BG03@3'
2303447-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/16/23 11:55**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|---------------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Boron | 0.0475 | 0.0100 | | mg/L | 1 | BGC0520 | 03/17/23 | 03/20/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **03/16/23 11:55**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------|----------------|-----------|---------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Arsenic | 1.08 | 0.202 | 0.171 | mg/kg dry | 1 | BGC0510 | 03/16/23 | 03/19/23 | EPA 6020B | |
| Barium | 39.4 | 0.405 | 0.320 | " | " | " | " | " | " | |
| Cadmium | 0.0676 | 0.202 | 0.00729 | " | " | " | " | " | " | |
| Copper | 1.20 | 0.405 | 0.0212 | " | " | " | " | " | " | |
| Lead | 2.20 | 0.202 | 0.0556 | " | " | " | " | " | " | |
| Nickel | 1.14 | 0.405 | 0.0617 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | 0.175 | " | " | " | " | " | " | |
| Silver | 0.00607 | 0.0202 | 0.00270 | " | " | " | " | " | " | |
| Zinc | 4.60 | 0.405 | 0.269 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/16/23 11:55**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | | mg/kg dry | 1 | BGC0639 | 03/20/23 | 03/20/23 | EPA 7196A | |

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

Date Sampled: **03/16/23 11:55**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------|-------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Calcium | 22.4 | 0.0506 | | mg/L dry | 1 | BGC0546 | 03/17/23 | 03/20/23 | EPA 6020B | |
| Magnesium | 6.60 | 0.0506 | | " | " | " | " | " | " | |
| Sodium | 5.81 | 0.0506 | | " | " | " | " | " | " | |

Summit Scientific

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

Project: Noble - SLW Ranch B12-55-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/21/23 13:25

BG03@3'
2303447-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/16/23 11:55**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------------|-----------------|-----|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.277 | 0.00100 | | units | 1 | BGC0620 | 03/20/23 | 03/20/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/16/23 11:55**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|-------------|-----------------|-----|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 98.8 | | | % | 1 | BGC0522 | 03/17/23 | 03/17/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/16/23 11:55**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------------|-----------------|-----|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.170 | 0.0100 | | mmhos/cm | 1 | BGC0566 | 03/18/23 | 03/20/23 | EPA 120.1 | |

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

Date Sampled: **03/16/23 11:55**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|-------------|-----------------|-----|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.15 | | | pH Units | 1 | BGC0567 | 03/18/23 | 03/20/23 | EPA 9045D | |

Summit Scientific

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

Project: Noble - SLW Ranch B12-55-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/21/23 13:25

BG04@0.5'
2303447-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/16/23 12:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|--------------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Boron | 0.175 | 0.0100 | | mg/L | 1 | BGC0520 | 03/17/23 | 03/20/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **03/16/23 12:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------|---------------|-----------|---------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Arsenic | 1.26 | 0.220 | 0.186 | mg/kg dry | 1 | BGC0510 | 03/16/23 | 03/19/23 | EPA 6020B | |
| Barium | 24.2 | 0.441 | 0.348 | " | " | " | " | " | " | |
| Cadmium | 0.122 | 0.220 | 0.00793 | " | " | " | " | " | " | |
| Copper | 2.32 | 0.441 | 0.0230 | " | " | " | " | " | " | |
| Lead | 4.48 | 0.220 | 0.0605 | " | " | " | " | " | " | |
| Nickel | 1.86 | 0.441 | 0.0672 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | 0.175 | " | " | " | " | " | " | |
| Silver | 0.0278 | 0.0220 | 0.00294 | " | " | " | " | " | " | |
| Zinc | 9.53 | 0.441 | 0.293 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/16/23 12:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | | mg/kg dry | 1 | BGC0639 | 03/20/23 | 03/20/23 | EPA 7196A | |

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

Date Sampled: **03/16/23 12:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------|-------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Calcium | 75.7 | 0.0551 | | mg/L dry | 1 | BGC0546 | 03/17/23 | 03/20/23 | EPA 6020B | |
| Magnesium | 18.2 | 0.0551 | | " | " | " | " | " | " | |
| Sodium | 1.45 | 0.0551 | | " | " | " | " | " | " | |

Summit Scientific

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

Project: Noble - SLW Ranch B12-55-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/21/23 13:25

BG04@0.5'
2303447-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/16/23 12:00**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|---------------|-----------------|-----|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0388 | 0.00100 | | units | 1 | BGC0620 | 03/20/23 | 03/20/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/16/23 12:00**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|-------------|-----------------|-----|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 90.8 | | | % | 1 | BGC0522 | 03/17/23 | 03/17/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/16/23 12:00**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------------|-----------------|-----|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.220 | 0.0100 | | mmhos/cm | 1 | BGC0566 | 03/18/23 | 03/20/23 | EPA 120.1 | |

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

Date Sampled: **03/16/23 12:00**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|-------------|-----------------|-----|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.13 | | | pH Units | 1 | BGC0567 | 03/18/23 | 03/20/23 | EPA 9045D | |

Summit Scientific

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



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

Project: Noble - SLW Ranch B12-55-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/21/23 13:25

BG04@3'
2303447-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/16/23 12:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|---------------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Boron | 0.0660 | 0.0100 | | mg/L | 1 | BGC0520 | 03/17/23 | 03/20/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **03/16/23 12:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------|----------------|-----------|---------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Arsenic | 1.29 | 0.207 | 0.175 | mg/kg dry | 1 | BGC0510 | 03/16/23 | 03/19/23 | EPA 6020B | |
| Barium | 12.8 | 0.415 | 0.328 | " | " | " | " | " | " | " |
| Cadmium | 0.0655 | 0.207 | 0.00746 | " | " | " | " | " | " | " |
| Copper | 1.30 | 0.415 | 0.0217 | " | " | " | " | " | " | " |
| Lead | 2.44 | 0.207 | 0.0570 | " | " | " | " | " | " | " |
| Nickel | 0.824 | 0.415 | 0.0632 | " | " | " | " | " | " | " |
| Selenium | ND | 0.260 | 0.175 | " | " | " | " | " | " | " |
| Silver | 0.00498 | 0.0207 | 0.00277 | " | " | " | " | " | " | " |
| Zinc | 4.04 | 0.415 | 0.276 | " | " | " | " | " | " | " |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/16/23 12:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | | mg/kg dry | 1 | BGC0639 | 03/20/23 | 03/20/23 | EPA 7196A | |

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

Date Sampled: **03/16/23 12:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------|-------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Calcium | 58.5 | 0.0518 | | mg/L dry | 1 | BGC0546 | 03/17/23 | 03/20/23 | EPA 6020B | |
| Magnesium | 13.7 | 0.0518 | | " | " | " | " | " | " | " |
| Sodium | 7.13 | 0.0518 | | " | " | " | " | " | " | " |

Summit Scientific

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

Project: Noble - SLW Ranch B12-55-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/21/23 13:25

BG04@3'
2303447-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/16/23 12:00**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------------|-----------------|-----|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.218 | 0.00100 | | units | 1 | BGC0620 | 03/20/23 | 03/20/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/16/23 12:00**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|-------------|-----------------|-----|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 96.5 | | | % | 1 | BGC0522 | 03/17/23 | 03/17/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/16/23 12:00**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------------|-----------------|-----|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.142 | 0.0100 | | mmhos/cm | 1 | BGC0566 | 03/18/23 | 03/20/23 | EPA 120.1 | |

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

Date Sampled: **03/16/23 12:00**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|-------------|-----------------|-----|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.69 | | | pH Units | 1 | BGC0567 | 03/18/23 | 03/20/23 | EPA 9045D | |

Summit Scientific

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

Project: Noble - SLW Ranch B12-55-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/21/23 13:25

BG05@0.5'
2303447-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/16/23 12:05**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|---------------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Boron | 0.0643 | 0.0100 | | mg/L | 1 | BGC0520 | 03/17/23 | 03/20/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **03/16/23 12:05**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------|----------------|-----------|---------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Arsenic | 1.20 | 0.213 | 0.180 | mg/kg dry | 1 | BGC0510 | 03/16/23 | 03/19/23 | EPA 6020B | |
| Barium | 33.6 | 0.426 | 0.337 | " | " | " | " | " | " | " |
| Cadmium | 0.0703 | 0.213 | 0.00767 | " | " | " | " | " | " | " |
| Copper | 1.65 | 0.426 | 0.0223 | " | " | " | " | " | " | " |
| Lead | 2.66 | 0.213 | 0.0586 | " | " | " | " | " | " | " |
| Nickel | 1.27 | 0.426 | 0.0650 | " | " | " | " | " | " | " |
| Selenium | ND | 0.260 | 0.175 | " | " | " | " | " | " | " |
| Silver | 0.00682 | 0.0213 | 0.00285 | " | " | " | " | " | " | " |
| Zinc | 5.62 | 0.426 | 0.283 | " | " | " | " | " | " | " |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/16/23 12:05**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | | mg/kg dry | 1 | BGC0639 | 03/20/23 | 03/20/23 | EPA 7196A | |

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

Date Sampled: **03/16/23 12:05**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------|-------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Calcium | 125 | 0.0533 | | mg/L dry | 1 | BGC0546 | 03/17/23 | 03/20/23 | EPA 6020B | |
| Magnesium | 16.6 | 0.0533 | | " | " | " | " | " | " | " |
| Sodium | 16.2 | 0.0533 | | " | " | " | " | " | " | " |

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 - SLW Ranch B12-55-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/21/23 13:25

BG05@0.5'
2303447-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/16/23 12:05**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------------|-----------------|-----|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.361 | 0.00100 | | units | 1 | BGC0620 | 03/20/23 | 03/20/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/16/23 12:05**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|-------------|-----------------|-----|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 93.8 | | | % | 1 | BGC0522 | 03/17/23 | 03/17/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/16/23 12:05**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------------|-----------------|-----|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.266 | 0.0100 | | mmhos/cm | 1 | BGC0566 | 03/18/23 | 03/20/23 | EPA 120.1 | |

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

Date Sampled: **03/16/23 12:05**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|-------------|-----------------|-----|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.74 | | | pH Units | 1 | BGC0567 | 03/18/23 | 03/20/23 | EPA 9045D | |

Summit Scientific

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

Project: Noble - SLW Ranch B12-55-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/21/23 13:25

BG05@3'
2303447-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/16/23 12:05**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|---------------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Boron | 0.0760 | 0.0100 | | mg/L | 1 | BGC0520 | 03/17/23 | 03/20/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **03/16/23 12:05**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------|----------------|-----------|---------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Arsenic | 2.48 | 0.204 | 0.172 | mg/kg dry | 1 | BGC0510 | 03/16/23 | 03/19/23 | EPA 6020B | |
| Barium | 43.6 | 0.408 | 0.322 | " | " | " | " | " | " | |
| Cadmium | 0.125 | 0.204 | 0.00735 | " | " | " | " | " | " | |
| Copper | 2.13 | 0.408 | 0.0213 | " | " | " | " | " | " | |
| Lead | 5.76 | 0.204 | 0.0561 | " | " | " | " | " | " | |
| Nickel | 1.72 | 0.408 | 0.0623 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | 0.175 | " | " | " | " | " | " | |
| Silver | 0.00939 | 0.0204 | 0.00272 | " | " | " | " | " | " | |
| Zinc | 7.60 | 0.408 | 0.271 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/16/23 12:05**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | | mg/kg dry | 1 | BGC0639 | 03/20/23 | 03/20/23 | EPA 7196A | |

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

Date Sampled: **03/16/23 12:05**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------|-------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Calcium | 66.6 | 0.0510 | | mg/L dry | 1 | BGC0546 | 03/17/23 | 03/20/23 | EPA 6020B | |
| Magnesium | 10.8 | 0.0510 | | " | " | " | " | " | " | |
| Sodium | 11.0 | 0.0510 | | " | " | " | " | " | " | |

Summit Scientific

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

Project: Noble - SLW Ranch B12-55-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/21/23 13:25

BG05@3'
2303447-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/16/23 12:05**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------------|-----------------|-----|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.330 | 0.00100 | | units | 1 | BGC0620 | 03/20/23 | 03/20/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/16/23 12:05**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|-------------|-----------------|-----|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 98.0 | | | % | 1 | BGC0522 | 03/17/23 | 03/17/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/16/23 12:05**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------------|-----------------|-----|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.220 | 0.0100 | | mmhos/cm | 1 | BGC0566 | 03/18/23 | 03/20/23 | EPA 120.1 | |

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

Date Sampled: **03/16/23 12:05**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|-------------|-----------------|-----|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.33 | | | pH Units | 1 | BGC0567 | 03/18/23 | 03/20/23 | EPA 9045D | |

Summit Scientific

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

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

Project: Noble - SLW Ranch B12-55-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/21/23 13:25

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 BGC0520 - EPA 3050B

Blank (BGC0520-BLK1)

Prepared: 03/17/23 Analyzed: 03/19/23

Boron ND 0.0100 mg/L

LCS (BGC0520-BS1)

Prepared: 03/17/23 Analyzed: 03/19/23

Boron 5.10 0.0100 mg/L 5.00 102 80-120

Duplicate (BGC0520-DUP1)

Source: 2303319-01

Prepared: 03/17/23 Analyzed: 03/19/23

Boron 0.199 0.0100 mg/L 0.203 1.78 20

Matrix Spike (BGC0520-MS1)

Source: 2303319-01

Prepared: 03/17/23 Analyzed: 03/19/23

Boron 5.22 0.0100 mg/L 5.00 0.203 100 75-125

Matrix Spike Dup (BGC0520-MSD1)

Source: 2303319-01

Prepared: 03/17/23 Analyzed: 03/19/23

Boron 5.25 0.0100 mg/L 5.00 0.203 101 75-125 0.659 25

Summit Scientific

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

Project: Noble - SLW Ranch B12-55-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/21/23 13:25

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGC0510 - EPA 3050B

Blank (BGC0510-BLK1)

Prepared: 03/16/23 Analyzed: 03/18/23

| | | | | | | | | | |
|----------|-------|--------|-----------|--|--|--|--|--|--|
| Arsenic | ND | 0.200 | mg/kg wet | | | | | | |
| Barium | ND | 0.400 | " | | | | | | |
| Cadmium | ND | 0.200 | " | | | | | | |
| Copper | 0.181 | 0.400 | " | | | | | | |
| Lead | ND | 0.200 | " | | | | | | |
| Nickel | ND | 0.400 | " | | | | | | |
| Selenium | ND | 0.260 | " | | | | | | |
| Silver | ND | 0.0200 | " | | | | | | |
| Zinc | ND | 0.400 | " | | | | | | |

LCS (BGC0510-BS1)

Prepared: 03/16/23 Analyzed: 03/18/23

| | | | | | | |
|----------|------|--------|-----------|------|------|--------|
| Arsenic | 38.6 | 0.200 | mg/kg wet | 40.0 | 96.6 | 80-120 |
| Barium | 38.1 | 0.400 | " | 40.0 | 95.2 | 80-120 |
| Cadmium | 1.89 | 0.200 | " | 2.00 | 94.5 | 80-120 |
| Copper | 38.8 | 0.400 | " | 40.0 | 97.1 | 80-120 |
| Lead | 18.8 | 0.200 | " | 20.0 | 93.9 | 80-120 |
| Nickel | 37.5 | 0.400 | " | 40.0 | 93.6 | 80-120 |
| Selenium | 3.81 | 0.260 | " | 4.00 | 95.3 | 80-120 |
| Silver | 1.75 | 0.0200 | " | 2.00 | 87.4 | 80-120 |
| Zinc | 37.9 | 0.400 | " | 40.0 | 94.6 | 80-120 |

Duplicate (BGC0510-DUP1)

Source: 2303326-07

Prepared: 03/16/23 Analyzed: 03/18/23

| | | | | | | |
|----------|--------|--------|-----------|--------|------|----|
| Arsenic | 0.899 | 0.210 | mg/kg dry | 0.841 | 6.67 | 20 |
| Barium | 35.0 | 0.420 | " | 33.6 | 4.16 | 20 |
| Cadmium | 0.0718 | 0.210 | " | 0.0727 | 1.16 | 20 |
| Copper | 2.03 | 0.420 | " | 1.97 | 3.30 | 20 |
| Lead | 2.74 | 0.210 | " | 2.63 | 4.16 | 20 |
| Nickel | 1.82 | 0.420 | " | 1.76 | 3.80 | 20 |
| Selenium | ND | 0.260 | " | ND | | 20 |
| Silver | 0.0118 | 0.0210 | " | 0.0109 | 7.41 | 20 |
| Zinc | 8.00 | 0.420 | " | 7.81 | 2.34 | 20 |

Summit Scientific

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

Project: Noble - SLW Ranch B12-55-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/21/23 13:25

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 BGC0510 - EPA 3050B

Matrix Spike (BGC0510-MS1)

Source: 2303326-07

Prepared: 03/16/23 Analyzed: 03/18/23

| | | | | | | | | | | |
|----------|------|--------|-----------|------|--------|------|--------|--|--|--|
| Arsenic | 43.2 | 0.210 | mg/kg dry | 42.0 | 0.841 | 101 | 75-125 | | | |
| Barium | 77.2 | 0.420 | " | 42.0 | 33.6 | 104 | 75-125 | | | |
| Cadmium | 2.16 | 0.210 | " | 2.10 | 0.0727 | 99.5 | 75-125 | | | |
| Copper | 37.0 | 0.420 | " | 42.0 | 1.97 | 83.4 | 75-125 | | | |
| Lead | 23.5 | 0.210 | " | 21.0 | 2.63 | 99.4 | 75-125 | | | |
| Nickel | 35.9 | 0.420 | " | 42.0 | 1.76 | 81.2 | 75-125 | | | |
| Selenium | 4.06 | 0.260 | " | 4.20 | ND | 96.6 | 75-125 | | | |
| Silver | 1.86 | 0.0210 | " | 2.10 | 0.0109 | 88.1 | 75-125 | | | |
| Zinc | 43.3 | 0.420 | " | 42.0 | 7.81 | 84.4 | 75-125 | | | |

Matrix Spike Dup (BGC0510-MSD1)

Source: 2303326-07

Prepared: 03/16/23 Analyzed: 03/18/23

| | | | | | | | | | |
|----------|------|--------|-----------|------|--------|------|--------|------|----|
| Arsenic | 44.9 | 0.210 | mg/kg dry | 42.0 | 0.841 | 105 | 75-125 | 3.83 | 25 |
| Barium | 83.0 | 0.420 | " | 42.0 | 33.6 | 118 | 75-125 | 7.21 | 25 |
| Cadmium | 2.33 | 0.210 | " | 2.10 | 0.0727 | 108 | 75-125 | 7.59 | 25 |
| Copper | 38.3 | 0.420 | " | 42.0 | 1.97 | 86.6 | 75-125 | 3.52 | 25 |
| Lead | 25.3 | 0.210 | " | 21.0 | 2.63 | 108 | 75-125 | 7.54 | 25 |
| Nickel | 37.1 | 0.420 | " | 42.0 | 1.76 | 84.2 | 75-125 | 3.53 | 25 |
| Selenium | 4.21 | 0.260 | " | 4.20 | ND | 100 | 75-125 | 3.56 | 25 |
| Silver | 1.95 | 0.0210 | " | 2.10 | 0.0109 | 92.4 | 75-125 | 4.69 | 25 |

Summit Scientific

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

Project: Noble - SLW Ranch B12-55-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/21/23 13:25

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGC0639 - 3060A Mod

Blank (BGC0639-BLK1)

Prepared & Analyzed: 03/20/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGC0639-BS1)

Prepared & Analyzed: 03/20/23

Chromium, Hexavalent 21.4 0.30 mg/kg wet 25.0 85.4 80-120

Duplicate (BGC0639-DUP1)

Source: 2303341-01

Prepared & Analyzed: 03/20/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGC0639-MS1)

Source: 2303341-01

Prepared & Analyzed: 03/20/23

Chromium, Hexavalent 26.0 0.30 mg/kg dry 32.3 ND 80.4 75-125

Matrix Spike Dup (BGC0639-MSD1)

Source: 2303341-01

Prepared & Analyzed: 03/20/23

Chromium, Hexavalent 24.8 0.30 mg/kg dry 32.3 ND 76.8 75-125 4.58 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 - SLW Ranch B12-55-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/21/23 13:25

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

Summit Scientific

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

Batch BGC0546 - General Preparation

Blank (BGC0546-BLK1)

Prepared: 03/17/23 Analyzed: 03/20/23

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

LCS (BGC0546-BS1)

Prepared: 03/17/23 Analyzed: 03/20/23

| | | | | | | | | | | |
|-----------|------|--------|----------|------|--|-----|--------|--|--|--|
| Calcium | 6.14 | 0.0500 | mg/L wet | 5.00 | | 123 | 70-130 | | | |
| Magnesium | 6.40 | 0.0500 | " | 5.00 | | 128 | 70-130 | | | |
| Sodium | 6.17 | 0.0500 | " | 5.00 | | 123 | 70-130 | | | |

Summit Scientific

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

Project: Noble - SLW Ranch B12-55-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/21/23 13:25

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 BGC0522 - General Preparation

Duplicate (BGC0522-DUP1)

Source: 2303157-12

Prepared & Analyzed: 03/17/23

| | | | | | | | | | | |
|----------|------|--|---|--|------|--|--|-------|----|--|
| % Solids | 84.4 | | % | | 84.0 | | | 0.479 | 20 | |
|----------|------|--|---|--|------|--|--|-------|----|--|

Summit Scientific

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

Project: Noble - SLW Ranch B12-55-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/21/23 13:25

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 BGC0566 - General Preparation

Blank (BGC0566-BLK1)

Prepared: 03/18/23 Analyzed: 03/20/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGC0566-BS1)

Prepared: 03/18/23 Analyzed: 03/20/23

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BGC0566-DUP1)

Source: 2303445-01

Prepared: 03/18/23 Analyzed: 03/20/23

Specific Conductance (EC) 0.969 0.0100 mmhos/cm 0.977 0.853 20

Summit Scientific

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

Project: Noble - SLW Ranch B12-55-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/21/23 13:25

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 BGC0567 - General Preparation

LCS (BGC0567-BS1)

Prepared: 03/18/23 Analyzed: 03/20/23

| | | | | | |
|----|------|----------|------|------|--------|
| pH | 9.15 | pH Units | 9.18 | 99.7 | 95-105 |
|----|------|----------|------|------|--------|

Duplicate (BGC0567-DUP1)

Source: 2303445-01

Prepared: 03/18/23 Analyzed: 03/20/23

| | | | | | |
|----|------|----------|------|-------|----|
| pH | 7.89 | pH Units | 7.87 | 0.254 | 20 |
|----|------|----------|------|-------|----|

Summit Scientific

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

Project: Noble - SLW Ranch B12-55-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/21/23 13:25

Notes and Definitions

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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

March 28, 2023

Jacob Whritenour

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: Noble - SLW Ranch B12-65-1HN

Work Order # 2303516

Enclosed are the results of analyses for samples received by Summit Scientific on 03/20/23 17:38. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury

President

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
 Project Manager: Jacob Whritenour

Reported:
 03/28/23 12:12

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| SS07@2' | 2303516-01 | Soil | 03/20/23 14:05 | 03/20/23 17:38 |
| SS08@2' | 2303516-02 | Soil | 03/20/23 14:07 | 03/20/23 17:38 |
| SS09@2' | 2303516-03 | Soil | 03/20/23 14:08 | 03/20/23 17:38 |
| SS10@2' | 2303516-04 | Soil | 03/20/23 14:12 | 03/20/23 17:38 |
| FS02@2.5' | 2303516-05 | Soil | 03/20/23 14:00 | 03/20/23 17:38 |

Summit Scientific



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

SUMMIT SCIENTIFIC

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

| | |
|---------|-------------|
| Lab ID | Page 1 of 1 |
| 2303516 | |

| | | | |
|-------------------------------------|------------------------------------|--|--|
| Send Data To: | | Send Invoice To: | |
| Client: Noble/Tasman | Project Manager: Jake Whritenour | Company: | |
| Address: 6855 W 119TH AVE | E-Mail: Jwhritenour@tasman-geo.com | Project Name/Location: SLW Ranch BIZ-65-HN | |
| City/State/Zip: Broomfield CO 80020 | | AFE#: | |
| Phone: 503-915-3046 | Project Name: SLW Ranch BIZ-65-HN | PO/Billing Codes: | |
| Sampler Name: Martin Medeiros | Project Number: | Contact: | |

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative | | | | Matrix | | Air-Canister # | Other | Analysis Requested | | | | | | Special Instructions |
|----|--------------------|--------------|--------------|-----------------|--------------|------|------|-------|--------|------|----------------|-------|--------------------|---------|---------|------------|-------------|---------------------------------|----------------------|
| | | | | | HCl | HNO3 | None | Other | Water | Soil | | | VOC-915 | TPH-915 | PAH-915 | Metals-915 | pH, EC, SAR | Boron-HWB | |
| 1 | S607 @ 2' | 03/20/23 | 14:05 | 2 | | | X | | | X | | X | X | X | X | X | X | -PH, EC, SAR by saturated paste | |
| 2 | S608 @ 2' | ↓ | 14:07 | ↓ | | | ↓ | | | ↓ | | ↓ | ↓ | ↓ | ↓ | ↓ | | | |
| 3 | S509 @ 7' | ↓ | 14:08 | ↓ | | | ↓ | | | ↓ | | ↓ | ↓ | ↓ | ↓ | ↓ | | | |
| 4 | S510 @ 2' | ↓ | 14:12 | ↓ | | | ↓ | | | ↓ | | ↓ | ↓ | ↓ | ↓ | ↓ | | | |
| 5 | F502 @ 2.5 | ↓ | 14:00 | ↓ | | | ↓ | | | ↓ | | ↓ | ↓ | ↓ | ↓ | ↓ | | | |
| 6 | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | |

| | | | | | | |
|--|---------------------------------|--------------|---------------------------------|-------------------|-------------|--------|
| Relinquished by: Martin Medeiros martin.medeiros | Date/Time: 03/20/23 16:00 | Received by: | Date/Time: 03/20/23 16:00 | TAT Business Days | Field DO | Notes: |
| Relinquished by: Tasman dc KBOX | Date/Time: 3/20/23 1738 | Received by: | Date/Time: 3/20/23 1738 | Same Day | Field EC | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 1 Day | Field ORP | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 2 Days | Field pH | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 3 Days | Field Temp. | |
| Temperature Upon Receipt: 8.7 | Corrected Temperature: 8 | IR gun #: 1 | HNO3 lot #: | Standard | Field Turb. | |

S₂

Sample Receipt Checklist

S2 Work Order# 2303516

Client: None / Tasman Client Project ID: SLW Ranch B12-65-1HN

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

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

Temp (°C) 8.7 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 type="checkbox"/> | <input checked="" type="checkbox"/> | No Answer |
| Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾ | <input type="checkbox"/> | <input checked="" 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

Custodian Printed Name

3/20/23

Date/Time



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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/28/23 12:12

SS07@2'
2303516-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/20/23 14:05**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BGC0673 | 03/21/23 | 03/23/23 | 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: **03/20/23 14:05**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|-----|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | MDL | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 96.8 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 109 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 113 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/20/23 14:05**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BGC0676 | 03/21/23 | 03/24/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **03/20/23 14:05**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|-----|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | MDL | | | | | | | |
| Surrogate: o-Terphenyl | | 55.7 % | | 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 - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/28/23 12:12

SS07@2'
2303516-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/20/23 14:05**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-----|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | | mg/kg | 1 | BGC0872 | 03/25/23 | 03/27/23 | 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: **03/20/23 14:05**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|-----|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | | 71.2 % | | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | | 78.0 % | | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/20/23 14:05**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|---------------|-----------------|-----|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 0.0912 | 0.0100 | | mg/L | 1 | BGC0871 | 03/25/23 | 03/26/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **03/20/23 14:05**

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

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/28/23 12:12

SS07@2'
2303516-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | 0.211 | 0.178 | mg/kg dry | 1 | BGC0781 | 03/23/23 | 03/24/23 | EPA 6020B |
|----------|--------|--------|---------|-----------|---|---------|----------|----------|-----------|
| Arsenic | 2.00 | 0.211 | 0.178 | mg/kg dry | 1 | BGC0781 | 03/23/23 | 03/24/23 | EPA 6020B |
| Barium | 50.2 | 0.422 | 0.333 | " | " | " | " | " | " |
| Cadmium | 0.0822 | 0.211 | 0.00759 | " | " | " | " | " | " |
| Copper | 3.53 | 0.422 | 0.0220 | " | " | " | " | " | " |
| Lead | 2.75 | 0.211 | 0.0579 | " | " | " | " | " | " |
| Nickel | 2.91 | 0.422 | 0.0643 | " | " | " | " | " | " |
| Selenium | ND | 0.260 | 0.175 | " | " | " | " | " | " |
| Silver | 0.0126 | 0.0211 | 0.00281 | " | " | " | " | " | " |
| Zinc | 9.97 | 0.422 | 0.280 | " | " | " | " | " | " |

Hexavalent Chromium by EPA Method 7196

Date Sampled: 03/20/23 14:05

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | | mg/kg dry | 1 | BGC0905 | 03/27/23 | 03/27/23 | EPA 7196A | |

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

Date Sampled: 03/20/23 14:05

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|-----|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 45.5 | 0.0527 | | mg/L dry | 1 | BGC0865 | 03/25/23 | 03/28/23 | EPA 6020B | |
| Magnesium | 18.8 | 0.0527 | | " | " | " | " | " | " | |
| Sodium | 15.6 | 0.0527 | | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: 03/20/23 14:05

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-----|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.492 | 0.00100 | | units | 1 | BGC0945 | 03/28/23 | 03/28/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/28/23 12:12

SS07@2'
2303516-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/20/23 14:05**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | MDL | | | | | | | |
| % Solids | 94.9 | | | % | 1 | BGC0783 | 03/23/23 | 03/24/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/20/23 14:05**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Specific Conductance (EC) | 0.602 | 0.0100 | | mmhos/cm | 1 | BGC0893 | 03/26/23 | 03/26/23 | EPA 120.1 | |

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

Date Sampled: **03/20/23 14:05**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| pH | 7.76 | | | pH Units | 1 | BGC0892 | 03/26/23 | 03/26/23 | EPA 9045D | |

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/28/23 12:12

SS08@2'
2303516-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/20/23 14:07**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BGC0673 | 03/21/23 | 03/23/23 | 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: **03/20/23 14:07**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|-----|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | MDL | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 96.6 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 106 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 112 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/20/23 14:07**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BGC0676 | 03/21/23 | 03/24/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **03/20/23 14:07**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|-----|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | MDL | | | | | | | |
| Surrogate: o-Terphenyl | | 61.3 % | | 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 - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/28/23 12:12

SS08@2'
2303516-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/20/23 14:07**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-----|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | | mg/kg | 1 | BGC0872 | 03/25/23 | 03/27/23 | 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: **03/20/23 14:07**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|-----|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | | 66.9 % | | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | | 74.3 % | | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/20/23 14:07**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|---------------|-----------------|-----|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 0.0986 | 0.0100 | | mg/L | 1 | BGC0871 | 03/25/23 | 03/26/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **03/20/23 14:07**

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

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/28/23 12:12

SS08@2'
2303516-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|--------|---------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 2.04 | 0.209 | 0.176 | mg/kg dry | 1 | BGC0781 | 03/23/23 | 03/24/23 | EPA 6020B | |
| Barium | 30.2 | 0.418 | 0.330 | " | " | " | " | " | " | |
| Cadmium | 0.0970 | 0.209 | 0.00753 | " | " | " | " | " | " | |
| Copper | 4.09 | 0.418 | 0.0218 | " | " | " | " | " | " | |
| Lead | 3.37 | 0.209 | 0.0574 | " | " | " | " | " | " | |
| Nickel | 2.80 | 0.418 | 0.0638 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | 0.175 | " | " | " | " | " | " | |
| Silver | 0.0142 | 0.0209 | 0.00279 | " | " | " | " | " | " | |
| Zinc | 10.2 | 0.418 | 0.278 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: 03/20/23 14:07

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | | mg/kg dry | 1 | BGC0905 | 03/27/23 | 03/27/23 | EPA 7196A | |

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

Date Sampled: 03/20/23 14:07

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|-----|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 52.5 | 0.0523 | | mg/L dry | 1 | BGC0865 | 03/25/23 | 03/28/23 | EPA 6020B | |
| Magnesium | 8.13 | 0.0523 | | " | " | " | " | " | " | |
| Sodium | 12.3 | 0.0523 | | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: 03/20/23 14:07

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-----|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.417 | 0.00100 | | units | 1 | BGC0945 | 03/28/23 | 03/28/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/28/23 12:12

SS08@2'
2303516-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/20/23 14:07**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | MDL | | | | | | | |
| % Solids | 95.7 | | | % | 1 | BGC0783 | 03/23/23 | 03/24/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/20/23 14:07**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Specific Conductance (EC) | 0.500 | 0.0100 | | mmhos/cm | 1 | BGC0893 | 03/26/23 | 03/26/23 | EPA 120.1 | |

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

Date Sampled: **03/20/23 14:07**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| pH | 7.92 | | | pH Units | 1 | BGC0892 | 03/26/23 | 03/26/23 | EPA 9045D | |

Summit Scientific

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



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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/28/23 12:12

SS09@2'
2303516-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/20/23 14:08**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BGC0673 | 03/21/23 | 03/23/23 | 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: **03/20/23 14:08**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|-----|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | MDL | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 99.9 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 110 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 112 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/20/23 14:08**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BGC0676 | 03/21/23 | 03/24/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **03/20/23 14:08**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|-----|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | MDL | | | | | | | |
| Surrogate: o-Terphenyl | | 58.7 % | | 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 - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/28/23 12:12

SS09@2'
2303516-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/20/23 14:08**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-----|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | | mg/kg | 1 | BGC0872 | 03/25/23 | 03/27/23 | 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: **03/20/23 14:08**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|-----|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | | 76.0 % | | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | | 80.9 % | | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/20/23 14:08**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|---------------|-----------------|-----|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 0.0911 | 0.0100 | | mg/L | 1 | BGC0871 | 03/25/23 | 03/26/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **03/20/23 14:08**

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

Summit Scientific

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



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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/28/23 12:12

SS09@2'
2303516-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|--------|---------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 2.27 | 0.212 | 0.178 | mg/kg dry | 1 | BGC0781 | 03/23/23 | 03/24/23 | EPA 6020B | |
| Barium | 47.0 | 0.423 | 0.334 | " | " | " | " | " | " | |
| Cadmium | 0.0901 | 0.212 | 0.00762 | " | " | " | " | " | " | |
| Copper | 4.01 | 0.423 | 0.0221 | " | " | " | " | " | " | |
| Lead | 2.96 | 0.212 | 0.0581 | " | " | " | " | " | " | |
| Nickel | 3.23 | 0.423 | 0.0645 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | 0.175 | " | " | " | " | " | " | |
| Silver | 0.0110 | 0.0212 | 0.00282 | " | " | " | " | " | " | |
| Zinc | 10.8 | 0.423 | 0.281 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/20/23 14:08**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | | mg/kg dry | 1 | BGC0905 | 03/27/23 | 03/27/23 | EPA 7196A | |

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

Date Sampled: **03/20/23 14:08**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|-----|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 59.3 | 0.0529 | | mg/L dry | 1 | BGC0865 | 03/25/23 | 03/28/23 | EPA 6020B | |
| Magnesium | 16.8 | 0.0529 | | " | " | " | " | " | " | |
| Sodium | 63.7 | 0.0529 | | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **03/20/23 14:08**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-----|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 1.88 | 0.00100 | | units | 1 | BGC0945 | 03/28/23 | 03/28/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

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 - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/28/23 12:12

SS09@2'
2303516-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/20/23 14:08**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | MDL | | | | | | | |
| % Solids | 94.5 | | | % | 1 | BGC0783 | 03/23/23 | 03/24/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/20/23 14:08**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Specific Conductance (EC) | 0.950 | 0.0100 | | mmhos/cm | 1 | BGC0893 | 03/26/23 | 03/26/23 | EPA 120.1 | |

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

Date Sampled: **03/20/23 14:08**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| pH | 7.49 | | | pH Units | 1 | BGC0892 | 03/26/23 | 03/26/23 | EPA 9045D | |

Summit Scientific

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



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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/28/23 12:12

SS10@2'
2303516-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/20/23 14:12**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BGC0673 | 03/21/23 | 03/23/23 | 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: **03/20/23 14:12**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|-----|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | MDL | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 94.5 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 110 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 111 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/20/23 14:12**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BGC0676 | 03/21/23 | 03/24/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **03/20/23 14:12**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|-----|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | MDL | | | | | | | |
| Surrogate: o-Terphenyl | | 49.5 % | | 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 - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/28/23 12:12

SS10@2'
2303516-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/20/23 14:12**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-----|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | | mg/kg | 1 | BGC0872 | 03/25/23 | 03/27/23 | 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: **03/20/23 14:12**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|-----|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | | 75.8 % | | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | | 82.6 % | | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/20/23 14:12**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|--------------|-----------------|-----|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 0.180 | 0.0100 | | mg/L | 1 | BGC0871 | 03/25/23 | 03/26/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **03/20/23 14:12**

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

Summit Scientific

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



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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/28/23 12:12

SS10@2'
2303516-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|--------|---------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 2.76 | 0.212 | 0.179 | mg/kg dry | 1 | BGC0781 | 03/23/23 | 03/24/23 | EPA 6020B | |
| Barium | 53.2 | 0.425 | 0.336 | " | " | " | " | " | " | |
| Cadmium | 0.0935 | 0.212 | 0.00765 | " | " | " | " | " | " | |
| Copper | 4.96 | 0.425 | 0.0222 | " | " | " | " | " | " | |
| Lead | 3.39 | 0.212 | 0.0584 | " | " | " | " | " | " | |
| Nickel | 3.45 | 0.425 | 0.0648 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | 0.175 | " | " | " | " | " | " | |
| Silver | 0.0119 | 0.0212 | 0.00284 | " | " | " | " | " | " | |
| Zinc | 12.5 | 0.425 | 0.282 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: 03/20/23 14:12

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | | mg/kg dry | 1 | BGC0905 | 03/27/23 | 03/27/23 | EPA 7196A | |

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

Date Sampled: 03/20/23 14:12

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|-----|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 46.6 | 0.0531 | | mg/L dry | 1 | BGC0865 | 03/25/23 | 03/28/23 | EPA 6020B | |
| Magnesium | 12.6 | 0.0531 | | " | " | " | " | " | " | |
| Sodium | 114 | 0.0531 | | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: 03/20/23 14:12

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-----|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 3.82 | 0.00100 | | units | 1 | BGC0945 | 03/28/23 | 03/28/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

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 - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/28/23 12:12

SS10@2'
2303516-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/20/23 14:12**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | MDL | | | | | | | |
| % Solids | 94.2 | | | % | 1 | BGC0783 | 03/23/23 | 03/24/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/20/23 14:12**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Specific Conductance (EC) | 0.697 | 0.0100 | | mmhos/cm | 1 | BGC0893 | 03/26/23 | 03/26/23 | EPA 120.1 | |

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

Date Sampled: **03/20/23 14:12**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| pH | 8.47 | | | pH Units | 1 | BGC0892 | 03/26/23 | 03/26/23 | EPA 9045D | |

Summit Scientific

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



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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/28/23 12:12

FS02@2.5'
2303516-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/20/23 14:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BGC0673 | 03/21/23 | 03/23/23 | 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: **03/20/23 14:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|-----|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | MDL | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 95.2 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 109 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 112 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/20/23 14:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BGC0676 | 03/21/23 | 03/24/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **03/20/23 14:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|-----|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | MDL | | | | | | | |
| Surrogate: o-Terphenyl | | 64.2 % | | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/28/23 12:12

FS02@2.5'
2303516-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/20/23 14:00**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-----|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | | mg/kg | 1 | BGC0872 | 03/25/23 | 03/27/23 | 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: **03/20/23 14:00**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|-----|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | | 81.5 % | | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | | 85.7 % | | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/20/23 14:00**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|--------------|-----------------|-----|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 0.154 | 0.0100 | | mg/L | 1 | BGC0871 | 03/25/23 | 03/26/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **03/20/23 14:00**

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

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/28/23 12:12

FS02@2.5'
2303516-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|--------|---------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 2.96 | 0.210 | 0.177 | mg/kg dry | 1 | BGC0781 | 03/23/23 | 03/24/23 | EPA 6020B | |
| Barium | 49.0 | 0.421 | 0.332 | " | " | " | " | " | " | |
| Cadmium | 0.107 | 0.210 | 0.00757 | " | " | " | " | " | " | |
| Copper | 4.41 | 0.421 | 0.0220 | " | " | " | " | " | " | |
| Lead | 3.38 | 0.210 | 0.0578 | " | " | " | " | " | " | |
| Nickel | 3.51 | 0.421 | 0.0641 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | 0.175 | " | " | " | " | " | " | |
| Silver | 0.0122 | 0.0210 | 0.00281 | " | " | " | " | " | " | |
| Zinc | 11.9 | 0.421 | 0.280 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/20/23 14:00**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | | mg/kg dry | 1 | BGC0905 | 03/27/23 | 03/27/23 | EPA 7196A | |

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

Date Sampled: **03/20/23 14:00**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|-----|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 47.4 | 0.0526 | | mg/L dry | 1 | BGC0865 | 03/25/23 | 03/28/23 | EPA 6020B | |
| Magnesium | 10.5 | 0.0526 | | " | " | " | " | " | " | |
| Sodium | 84.3 | 0.0526 | | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **03/20/23 14:00**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-----|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 2.89 | 0.00100 | | units | 1 | BGC0945 | 03/28/23 | 03/28/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/28/23 12:12

FS02@2.5'
2303516-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/20/23 14:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | MDL | | | | | | | |
| % Solids | 95.1 | | | % | 1 | BGC0783 | 03/23/23 | 03/24/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/20/23 14:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Specific Conductance (EC) | 0.888 | 0.0100 | | mmhos/cm | 1 | BGC0893 | 03/26/23 | 03/26/23 | EPA 120.1 | |

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

Date Sampled: **03/20/23 14:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| pH | 7.45 | | | pH Units | 1 | BGC0892 | 03/26/23 | 03/26/23 | EPA 9045D | |

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/28/23 12:12

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 BGC0673 - EPA 5030 Soil MS

Blank (BGC0673-BLK1)

Prepared: 03/21/23 Analyzed: 03/23/23

| | | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|--|
| Benzene | ND | 0.0020 | mg/kg | | | | | | | | |
| Toluene | ND | 0.0050 | " | | | | | | | | |
| Ethylbenzene | ND | 0.0050 | " | | | | | | | | |
| Xylenes (total) | ND | 0.010 | " | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | " | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | " | | | | | | | | |
| Naphthalene | ND | 0.0038 | " | | | | | | | | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0396 | | " | 0.0400 | | 99.1 | 50-150 | | | | |
| Surrogate: Toluene-d8 | 0.0431 | | " | 0.0400 | | 108 | 50-150 | | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0451 | | " | 0.0400 | | 113 | 50-150 | | | | |

LCS (BGC0673-BS1)

Prepared: 03/21/23 Analyzed: 03/23/23

| | | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|--|
| Benzene | 0.162 | 0.0020 | mg/kg | 0.125 | | 130 | 70-130 | | | | |
| Toluene | 0.160 | 0.0050 | " | 0.125 | | 128 | 70-130 | | | | |
| Ethylbenzene | 0.147 | 0.0050 | " | 0.125 | | 117 | 70-130 | | | | |
| m,p-Xylene | 0.290 | 0.010 | " | 0.250 | | 116 | 70-130 | | | | |
| o-Xylene | 0.127 | 0.0050 | " | 0.125 | | 102 | 70-130 | | | | |
| 1,2,4-Trimethylbenzene | 0.136 | 0.0050 | " | 0.125 | | 109 | 70-130 | | | | |
| 1,3,5-Trimethylbenzene | 0.143 | 0.0050 | " | 0.125 | | 114 | 70-130 | | | | |
| Naphthalene | 0.0895 | 0.0038 | " | 0.125 | | 71.6 | 70-130 | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0397 | | " | 0.0400 | | 99.2 | 50-150 | | | | |
| Surrogate: Toluene-d8 | 0.0441 | | " | 0.0400 | | 110 | 50-150 | | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0425 | | " | 0.0400 | | 106 | 50-150 | | | | |

Matrix Spike (BGC0673-MS1)

Source: 2303482-01

Prepared: 03/21/23 Analyzed: 03/23/23

| | | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|----|------|--------|--|--|--|--|
| Benzene | 0.162 | 0.0020 | mg/kg | 0.125 | ND | 130 | 70-130 | | | | |
| Toluene | 0.159 | 0.0050 | " | 0.125 | ND | 127 | 70-130 | | | | |
| Ethylbenzene | 0.145 | 0.0050 | " | 0.125 | ND | 116 | 70-130 | | | | |
| m,p-Xylene | 0.288 | 0.010 | " | 0.250 | ND | 115 | 70-130 | | | | |
| o-Xylene | 0.127 | 0.0050 | " | 0.125 | ND | 101 | 70-130 | | | | |
| 1,2,4-Trimethylbenzene | 0.134 | 0.0050 | " | 0.125 | ND | 107 | 70-130 | | | | |
| 1,3,5-Trimethylbenzene | 0.141 | 0.0050 | " | 0.125 | ND | 113 | 70-130 | | | | |
| Naphthalene | 0.0988 | 0.0038 | " | 0.125 | ND | 79.1 | 70-130 | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0403 | | " | 0.0400 | | 101 | 50-150 | | | | |
| Surrogate: Toluene-d8 | 0.0437 | | " | 0.0400 | | 109 | 50-150 | | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0428 | | " | 0.0400 | | 107 | 50-150 | | | | |

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/28/23 12:12

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 BGC0673 - EPA 5030 Soil MS

| Matrix Spike Dup (BGC0673-MSD1) | Source: 2303482-01 | | | Prepared: 03/21/23 Analyzed: 03/23/23 | | | | | | |
|---|---------------------------|--------|----------|--|----|-------------|---------------|-------|----|--|
| Benzene | 0.158 | 0.0020 | mg/kg | 0.125 | ND | 127 | 70-130 | 2.45 | 30 | |
| Toluene | 0.156 | 0.0050 | " | 0.125 | ND | 125 | 70-130 | 2.10 | 30 | |
| Ethylbenzene | 0.153 | 0.0050 | " | 0.125 | ND | 123 | 70-130 | 5.65 | 30 | |
| m,p-Xylene | 0.306 | 0.010 | " | 0.250 | ND | 122 | 70-130 | 6.05 | 30 | |
| o-Xylene | 0.129 | 0.0050 | " | 0.125 | ND | 103 | 70-130 | 1.53 | 30 | |
| 1,2,4-Trimethylbenzene | 0.135 | 0.0050 | " | 0.125 | ND | 108 | 70-130 | 0.603 | 30 | |
| 1,3,5-Trimethylbenzene | 0.149 | 0.0050 | " | 0.125 | ND | 119 | 70-130 | 4.88 | 30 | |
| Naphthalene | 0.130 | 0.0038 | " | 0.125 | ND | 104 | 70-130 | 27.0 | 30 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>0.0290</i> | | <i>"</i> | <i>0.0400</i> | | <i>72.5</i> | <i>50-150</i> | | | |
| <i>Surrogate: Toluene-d8</i> | <i>0.0435</i> | | <i>"</i> | <i>0.0400</i> | | <i>109</i> | <i>50-150</i> | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>0.0402</i> | | <i>"</i> | <i>0.0400</i> | | <i>101</i> | <i>50-150</i> | | | |

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/28/23 12:12

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 BGC0676 - EPA 3550A

Blank (BGC0676-BLK1)

Prepared: 03/21/23 Analyzed: 03/23/23

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|--|------|--------|--|--|--|--|
| C10-C28 (DRO) | ND | 50 | mg/kg | | | | | | | | |
| C28-C36 (ORO) | ND | 50 | " | | | | | | | | |
| Surrogate: <i>o</i> -Terphenyl | 8.31 | | " | 12.5 | | 66.5 | 30-150 | | | | |

LCS (BGC0676-BS1)

Prepared: 03/21/23 Analyzed: 03/23/23

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|--|------|--------|--|--|--|--|
| C10-C28 (DRO) | 459 | 50 | mg/kg | 500 | | 91.8 | 70-130 | | | | |
| Surrogate: <i>o</i> -Terphenyl | 10.9 | | " | 12.5 | | 87.4 | 30-150 | | | | |

Matrix Spike (BGC0676-MS1)

Source: 2303482-01

Prepared: 03/21/23 Analyzed: 03/23/23

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|------|------|--------|--|--|--|--|
| C10-C28 (DRO) | 431 | 50 | mg/kg | 500 | 23.0 | 81.6 | 70-130 | | | | |
| Surrogate: <i>o</i> -Terphenyl | 8.75 | | " | 12.5 | | 70.0 | 30-150 | | | | |

Matrix Spike Dup (BGC0676-MSD1)

Source: 2303482-01

Prepared: 03/21/23 Analyzed: 03/23/23

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|------|------|--------|--------|----|--|--|
| C10-C28 (DRO) | 431 | 50 | mg/kg | 500 | 23.0 | 81.7 | 70-130 | 0.0329 | 20 | | |
| Surrogate: <i>o</i> -Terphenyl | 9.14 | | " | 12.5 | | 73.1 | 30-150 | | | | |

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/28/23 12:12

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGC0872 - EPA 5030 Soil MS

Blank (BGC0872-BLK1)

Prepared: 03/25/23 Analyzed: 03/27/23

| | | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|--|-----|--------|--|--|--|
| Acenaphthene | ND | 0.00500 | mg/kg | | | | | | | |
| Anthracene | ND | 0.00500 | " | | | | | | | |
| Benzo (a) anthracene | ND | 0.00500 | " | | | | | | | |
| Benzo (a) pyrene | ND | 0.00500 | " | | | | | | | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | | | | | | | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | | | | | | | |
| Chrysene | ND | 0.00500 | " | | | | | | | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | | | | | | | |
| Fluoranthene | ND | 0.00500 | " | | | | | | | |
| Fluorene | ND | 0.00500 | " | | | | | | | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | | | | | | | |
| Pyrene | ND | 0.00500 | " | | | | | | | |
| 1-Methylnaphthalene | ND | 0.00500 | " | | | | | | | |
| 2-Methylnaphthalene | ND | 0.00500 | " | | | | | | | |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0367 | | " | 0.0333 | | 110 | 40-150 | | | |
| Surrogate: Fluoranthene-d10 | 0.0369 | | " | 0.0333 | | 111 | 40-150 | | | |

LCS (BGC0872-BS1)

Prepared: 03/25/23 Analyzed: 03/27/23

| | | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|------|--------|--------|--|--|--|
| Acenaphthene | 0.0363 | 0.00500 | mg/kg | 0.0333 | 109 | 31-137 | | | | |
| Anthracene | 0.0347 | 0.00500 | " | 0.0333 | 104 | 30-120 | | | | |
| Benzo (a) anthracene | 0.0293 | 0.00500 | " | 0.0333 | 87.9 | 30-120 | | | | |
| Benzo (a) pyrene | 0.0299 | 0.00500 | " | 0.0333 | 89.8 | 30-120 | | | | |
| Benzo (b) fluoranthene | 0.0352 | 0.00500 | " | 0.0333 | 106 | 30-120 | | | | |
| Benzo (k) fluoranthene | 0.0384 | 0.00500 | " | 0.0333 | 115 | 30-120 | | | | |
| Chrysene | 0.0349 | 0.00500 | " | 0.0333 | 105 | 30-120 | | | | |
| Dibenz (a,h) anthracene | 0.0194 | 0.00500 | " | 0.0333 | 58.1 | 30-120 | | | | |
| Fluoranthene | 0.0341 | 0.00500 | " | 0.0333 | 102 | 30-120 | | | | |
| Fluorene | 0.0366 | 0.00500 | " | 0.0333 | 110 | 30-120 | | | | |
| Indeno (1,2,3-cd) pyrene | 0.0204 | 0.00500 | " | 0.0333 | 61.2 | 30-120 | | | | |
| Pyrene | 0.0418 | 0.00500 | " | 0.0333 | 125 | 35-142 | | | | |
| 1-Methylnaphthalene | 0.0331 | 0.00500 | " | 0.0333 | 99.3 | 35-142 | | | | |
| 2-Methylnaphthalene | 0.0218 | 0.00500 | " | 0.0333 | 65.4 | 35-142 | | | | |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0369 | | " | 0.0333 | | 111 | 40-150 | | | |
| Surrogate: Fluoranthene-d10 | 0.0362 | | " | 0.0333 | | 109 | 40-150 | | | |

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/28/23 12:12

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 BGC0872 - EPA 5030 Soil MS

Matrix Spike (BGC0872-MS1)

Source: 2303516-01

Prepared: 03/25/23 Analyzed: 03/27/23

| | | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|---------|------|--------|--|--|--|
| Acenaphthene | 0.0259 | 0.00500 | mg/kg | 0.0333 | ND | 77.6 | 31-137 | | | |
| Anthracene | 0.0239 | 0.00500 | " | 0.0333 | ND | 71.6 | 30-120 | | | |
| Benzo (a) anthracene | 0.0296 | 0.00500 | " | 0.0333 | 0.00266 | 80.7 | 30-120 | | | |
| Benzo (a) pyrene | 0.0227 | 0.00500 | " | 0.0333 | ND | 68.1 | 30-120 | | | |
| Benzo (b) fluoranthene | 0.0284 | 0.00500 | " | 0.0333 | 0.00311 | 75.9 | 30-120 | | | |
| Benzo (k) fluoranthene | 0.0265 | 0.00500 | " | 0.0333 | ND | 79.4 | 30-120 | | | |
| Chrysene | 0.0222 | 0.00500 | " | 0.0333 | ND | 66.5 | 30-120 | | | |
| Dibenz (a,h) anthracene | 0.0171 | 0.00500 | " | 0.0333 | ND | 51.3 | 30-120 | | | |
| Fluoranthene | 0.0288 | 0.00500 | " | 0.0333 | ND | 86.3 | 30-120 | | | |
| Fluorene | 0.0260 | 0.00500 | " | 0.0333 | ND | 78.1 | 30-120 | | | |
| Indeno (1,2,3-cd) pyrene | 0.0197 | 0.00500 | " | 0.0333 | ND | 59.2 | 30-120 | | | |
| Pyrene | 0.0291 | 0.00500 | " | 0.0333 | ND | 87.2 | 35-142 | | | |
| 1-Methylnaphthalene | 0.0209 | 0.00500 | " | 0.0333 | ND | 62.8 | 15-130 | | | |
| 2-Methylnaphthalene | 0.0171 | 0.00500 | " | 0.0333 | ND | 51.3 | 15-130 | | | |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0247 | | " | 0.0333 | | 74.1 | 40-150 | | | |
| Surrogate: Fluoranthene-d10 | 0.0309 | | " | 0.0333 | | 92.7 | 40-150 | | | |

Matrix Spike Dup (BGC0872-MSD1)

Source: 2303516-01

Prepared: 03/25/23 Analyzed: 03/27/23

| | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|---------|------|--------|------|----|
| Acenaphthene | 0.0221 | 0.00500 | mg/kg | 0.0333 | ND | 66.2 | 31-137 | 15.9 | 30 |
| Anthracene | 0.0225 | 0.00500 | " | 0.0333 | ND | 67.4 | 30-120 | 6.05 | 30 |
| Benzo (a) anthracene | 0.0268 | 0.00500 | " | 0.0333 | 0.00266 | 72.5 | 30-120 | 9.66 | 30 |
| Benzo (a) pyrene | 0.0216 | 0.00500 | " | 0.0333 | ND | 64.7 | 30-120 | 5.04 | 30 |
| Benzo (b) fluoranthene | 0.0236 | 0.00500 | " | 0.0333 | 0.00311 | 61.5 | 30-120 | 18.5 | 30 |
| Benzo (k) fluoranthene | 0.0229 | 0.00500 | " | 0.0333 | ND | 68.6 | 30-120 | 14.6 | 30 |
| Chrysene | 0.0212 | 0.00500 | " | 0.0333 | ND | 63.5 | 30-120 | 4.65 | 30 |
| Dibenz (a,h) anthracene | 0.0168 | 0.00500 | " | 0.0333 | ND | 50.5 | 30-120 | 1.59 | 30 |
| Fluoranthene | 0.0250 | 0.00500 | " | 0.0333 | ND | 75.1 | 30-120 | 13.9 | 30 |
| Fluorene | 0.0224 | 0.00500 | " | 0.0333 | ND | 67.3 | 30-120 | 14.7 | 30 |
| Indeno (1,2,3-cd) pyrene | 0.0185 | 0.00500 | " | 0.0333 | ND | 55.5 | 30-120 | 6.51 | 30 |
| Pyrene | 0.0267 | 0.00500 | " | 0.0333 | ND | 80.0 | 35-142 | 8.61 | 30 |
| 1-Methylnaphthalene | 0.0219 | 0.00500 | " | 0.0333 | ND | 65.8 | 15-130 | 4.56 | 50 |
| 2-Methylnaphthalene | 0.0176 | 0.00500 | " | 0.0333 | ND | 52.9 | 15-130 | 3.15 | 50 |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0257 | | " | 0.0333 | | 77.0 | 40-150 | | |
| Surrogate: Fluoranthene-d10 | 0.0278 | | " | 0.0333 | | 83.5 | 40-150 | | |

Summit Scientific

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



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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/28/23 12:12

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 BGC0781 - EPA 3050B

Blank (BGC0781-BLK1)

Prepared: 03/23/23 Analyzed: 03/24/23

| | | | | | | | | | | |
|----------|----|--------|-----------|--|--|--|--|--|--|--|
| Arsenic | ND | 0.200 | mg/kg wet | | | | | | | |
| Barium | ND | 0.400 | " | | | | | | | |
| Cadmium | ND | 0.200 | " | | | | | | | |
| Copper | ND | 0.400 | " | | | | | | | |
| Lead | ND | 0.200 | " | | | | | | | |
| Nickel | ND | 0.400 | " | | | | | | | |
| Selenium | ND | 0.260 | " | | | | | | | |
| Silver | ND | 0.0200 | " | | | | | | | |
| Zinc | ND | 0.400 | " | | | | | | | |

LCS (BGC0781-BS1)

Prepared: 03/23/23 Analyzed: 03/24/23

| | | | | | | | | | | |
|----------|------|--------|-----------|------|--|-----|--------|--|--|--|
| Arsenic | 44.4 | 0.200 | mg/kg wet | 40.0 | | 111 | 80-120 | | | |
| Barium | 43.0 | 0.400 | " | 40.0 | | 108 | 80-120 | | | |
| Cadmium | 2.16 | 0.200 | " | 2.00 | | 108 | 80-120 | | | |
| Copper | 45.9 | 0.400 | " | 40.0 | | 115 | 80-120 | | | |
| Lead | 21.0 | 0.200 | " | 20.0 | | 105 | 80-120 | | | |
| Nickel | 45.1 | 0.400 | " | 40.0 | | 113 | 80-120 | | | |
| Selenium | 4.00 | 0.260 | " | 4.00 | | 100 | 80-120 | | | |
| Silver | 2.29 | 0.0200 | " | 2.00 | | 115 | 80-120 | | | |
| Zinc | 44.6 | 0.400 | " | 40.0 | | 111 | 80-120 | | | |

Duplicate (BGC0781-DUP1)

Source: 2303199-02

Prepared: 03/23/23 Analyzed: 03/24/23

| | | | | | | | | | | |
|----------|--------|--------|-----------|--|--------|--|-------|----|--|-------|
| Arsenic | 5.49 | 0.235 | mg/kg dry | | 5.98 | | 8.64 | 20 | | |
| Barium | 149 | 0.470 | " | | 148 | | 0.521 | 20 | | |
| Cadmium | 0.326 | 0.235 | " | | 0.332 | | 1.71 | 20 | | |
| Copper | 8.43 | 0.470 | " | | 8.14 | | 3.50 | 20 | | |
| Lead | 14.2 | 0.235 | " | | 11.2 | | 24.0 | 20 | | QR-04 |
| Nickel | 8.11 | 0.470 | " | | 8.61 | | 5.94 | 20 | | |
| Selenium | 0.180 | 0.260 | " | | 0.203 | | 12.3 | 20 | | |
| Silver | 0.0559 | 0.0235 | " | | 0.0531 | | 5.17 | 20 | | |
| Zinc | 25.2 | 0.470 | " | | 25.1 | | 0.481 | 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 - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/28/23 12:12

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 BGC0781 - EPA 3050B

Matrix Spike (BGC0781-MS1)

Source: 2303199-02

Prepared: 03/23/23 Analyzed: 03/24/23

| | | | | | | | | | | | |
|----------|------|--------|-----------|------|--------|------|--------|--|--|--|-------|
| Arsenic | 51.6 | 0.235 | mg/kg dry | 47.0 | 5.98 | 97.0 | 75-125 | | | | |
| Barium | 212 | 0.470 | " | 47.0 | 148 | 134 | 75-125 | | | | QM-02 |
| Cadmium | 2.66 | 0.235 | " | 2.35 | 0.332 | 99.1 | 75-125 | | | | |
| Copper | 32.7 | 0.470 | " | 47.0 | 8.14 | 52.2 | 75-125 | | | | QM-07 |
| Lead | 34.6 | 0.235 | " | 23.5 | 11.2 | 99.7 | 75-125 | | | | |
| Nickel | 33.4 | 0.470 | " | 47.0 | 8.61 | 52.7 | 75-125 | | | | QM-07 |
| Selenium | 4.25 | 0.260 | " | 4.70 | 0.203 | 86.2 | 75-125 | | | | |
| Silver | 2.93 | 0.0235 | " | 2.35 | 0.0531 | 122 | 75-125 | | | | |
| Zinc | 50.9 | 0.470 | " | 47.0 | 25.1 | 54.9 | 75-125 | | | | QM-07 |

Matrix Spike Dup (BGC0781-MSD1)

Source: 2303199-02

Prepared: 03/23/23 Analyzed: 03/24/23

| | | | | | | | | | | | |
|----------|------|--------|-----------|------|--------|------|--------|-------|----|--|-------|
| Arsenic | 52.6 | 0.235 | mg/kg dry | 47.0 | 5.98 | 99.2 | 75-125 | 1.94 | 25 | | |
| Barium | 211 | 0.470 | " | 47.0 | 148 | 134 | 75-125 | 0.114 | 25 | | QM-02 |
| Cadmium | 2.70 | 0.235 | " | 2.35 | 0.332 | 101 | 75-125 | 1.49 | 25 | | |
| Copper | 33.2 | 0.470 | " | 47.0 | 8.14 | 53.4 | 75-125 | 1.74 | 25 | | QM-07 |
| Lead | 34.9 | 0.235 | " | 23.5 | 11.2 | 101 | 75-125 | 0.809 | 25 | | |
| Nickel | 33.9 | 0.470 | " | 47.0 | 8.61 | 53.9 | 75-125 | 1.57 | 25 | | QM-07 |
| Selenium | 4.21 | 0.260 | " | 4.70 | 0.203 | 85.3 | 75-125 | 0.988 | 25 | | |
| Silver | 2.95 | 0.0235 | " | 2.35 | 0.0531 | 123 | 75-125 | 0.799 | 25 | | |
| Zinc | 51.9 | 0.470 | " | 47.0 | 25.1 | 57.0 | 75-125 | 1.96 | 25 | | QM-07 |

Post Spike (BGC0781-PS1)

Source: 2303199-02

Prepared: 03/23/23 Analyzed: 03/25/23

| | | | | | | | | | | | |
|----------|------|--|------|------|-------|-----|--------|--|--|--|--|
| Selenium | 11.5 | | ug/l | 10.0 | 0.433 | 111 | 75-125 | | | | |
|----------|------|--|------|------|-------|-----|--------|--|--|--|--|

Summit Scientific

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



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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/28/23 12:12

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGC0905 - 3060A Mod

Blank (BGC0905-BLK1)

Prepared & Analyzed: 03/27/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGC0905-BS1)

Prepared & Analyzed: 03/27/23

Chromium, Hexavalent 25.6 0.30 mg/kg wet 25.0 102 80-120

Duplicate (BGC0905-DUP1)

Source: 2303414-03

Prepared & Analyzed: 03/27/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGC0905-MS1)

Source: 2303414-03

Prepared & Analyzed: 03/27/23

Chromium, Hexavalent 25.3 0.30 mg/kg dry 26.9 ND 94.0 75-125

Matrix Spike Dup (BGC0905-MSD1)

Source: 2303414-03

Prepared & Analyzed: 03/27/23

Chromium, Hexavalent 25.5 0.30 mg/kg dry 26.9 ND 94.8 75-125 0.847 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 - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/28/23 12:12

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

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

Batch BGC0865 - General Preparation

Blank (BGC0865-BLK1)

Prepared: 03/25/23 Analyzed: 03/28/23

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

LCS (BGC0865-BS1)

Prepared: 03/25/23 Analyzed: 03/28/23

| | | | | | | | | | |
|-----------|------|--------|----------|------|--|-----|--------|--|--|
| Calcium | 5.83 | 0.0500 | mg/L wet | 5.00 | | 117 | 70-130 | | |
| Magnesium | 5.21 | 0.0500 | " | 5.00 | | 104 | 70-130 | | |
| Sodium | 5.68 | 0.0500 | " | 5.00 | | 114 | 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 - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/28/23 12:12

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 BGC0783 - General Preparation

| Duplicate (BGC0783-DUP1) | | Source: 2303516-01 | | Prepared: 03/23/23 Analyzed: 03/24/23 | |
|---------------------------------|------|---------------------------|--|---------------------------------------|----------|
| % Solids | 95.2 | % | | 94.9 | 0.380 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 - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
03/28/23 12:12

Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- QM-02 The RPD and/or percent recovery for this QC sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

April 05, 2023

Jacob Whritenour

Tasman Geosciences

6855 W. 119th Ave.

Broomfeld, CO 80020

RE: Noble - SLW Ranch B12-65-1HN

Work Order # 2303693

Enclosed are the results of analyses for samples received by Summit Scientific on 03/29/23 17:43. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Scott Sheely For Paul Shrewsbury

President

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/05/23 12:49

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| FS01@2.5' | 2303693-01 | Soil | 03/29/23 14:20 | 03/29/23 17:43 |

Summit Scientific



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

SUMMIT SCIENTIFIC

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

| | |
|---------|-----------|
| Lab ID | Page of |
| 2303693 | |

| | | |
|--------------------------------------|------------------------------------|---|
| Send Data To: | | Send Invoice To: |
| Client: Noble/Tasman | Project Manager: Jake Whritenour | Company: Chevron |
| Address: 6855 W. 119th Ave. | E-Mail: Jwhritenour@tasman-geo.com | Project Name/Location: SLW Ranch B12-65-1HN |
| City/State/Zip: Broomfield/CO/ 80020 | | AFE#: |
| Phone: 602-881-5716 | Project Name: SLW Ranch B12-65-1HN | PO/Billing Codes: |
| Sampler Name: Dennis Gray | Project Number: | 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 | Metals - 915 | VOC - 915 | TPH - 915 | PAH - 915 | SAR, EC, pH | | Boron - HWS | HOLD |
| 1 | FSoil@2.5' | 3-29-23 | 1420 | 2 | | | X | | | X | | | X | X | X | X | X | X | | 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: 3-29-23 1636 | Received by: Tasman Lock Box | Date/Time: 3-29-23 1636 | TAT Business Days | Field DO | Notes: |
| | | | | Same Day | Field EC | |
| Relinquished by: Tasman Lock Box | Date/Time: 3-29-23 1743 | Received by: <i>[Signature]</i> | Date/Time: 3-29-23 1743 | 1 Day | Field ORP | |
| | | | | 2 Days | Field pH | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 3 Days | Field Temp. | |
| | | | | Standard | Field Turb. | |
| Temperature Upon Receipt: 8.7 | Corrected Temperature: <i>[Signature]</i> | IR gun #: 1 | HNO3 lot #: | | | |

S₂

Sample Receipt Checklist

S2 Work Order# 2303893

Client: Noble Tasmans Client Project ID: SIW Rameh B12-65-IHN

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"/> | |
| If custody seals are present, are they intact? ⁽¹⁾ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Are samples due within 48 hours present? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Sameday |
| Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were all samples received intact? ⁽¹⁾ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was adequate sample volume provided? ⁽¹⁾ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Does the COC agree with the number and type of sample bottles received? ⁽¹⁾ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Do the sample IDs on the bottle labels match the COC? ⁽¹⁾ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| For volatiles in water – is there headspace present? If yes, contact client and note in narrative. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If dissolved metals are requested, were samples field filtered? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |

Additional Comments (if any):

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

AS
Custodian Printed Name

3/29/23
Date/Time



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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/05/23 12:49

FS01@2.5'
2303693-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/23 14:20**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BGC0993 | 03/29/23 | 03/29/23 | EPA 8260B | |
| Toluene | ND | 0.0050 | | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | | " | " | " | " | " | " | |

Date Sampled: **03/29/23 14:20**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|-----|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | MDL | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 106 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 100 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 103 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/23 14:20**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BGC0994 | 03/29/23 | 03/30/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **03/29/23 14:20**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|-----|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | MDL | | | | | | | |
| Surrogate: o-Terphenyl | | 96.5 % | | 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 - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/05/23 12:49

FS01@2.5'
2303693-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/29/23 14:20**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-----|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | | mg/kg | 1 | BGC1040 | 03/31/23 | 04/01/23 | 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: **03/29/23 14:20**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|-----|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | | 59.7 % | | 40-150 | | " | " | " | " | " |
| Surrogate: Fluoranthene-d10 | | 65.9 % | | 40-150 | | " | " | " | " | " |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/23 14:20**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|--------------|-----------------|-----|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 0.949 | 0.0100 | | mg/L | 1 | BGC1005 | 03/30/23 | 04/01/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **03/29/23 14:20**

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

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/05/23 12:49

FS01@2.5'
2303693-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|---------|--------|---------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 2.41 | 0.203 | 0.171 | mg/kg dry | 1 | BGC0997 | 03/29/23 | 03/31/23 | EPA 6020B | |
| Barium | 48.3 | 0.406 | 0.321 | " | " | " | " | " | " | |
| Cadmium | 0.103 | 0.203 | 0.00731 | " | " | " | " | " | " | |
| Copper | 3.86 | 0.406 | 0.0212 | " | " | " | " | " | " | |
| Lead | 2.92 | 0.203 | 0.0558 | " | " | " | " | " | " | |
| Nickel | 2.85 | 0.406 | 0.0619 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | 0.175 | " | " | " | " | " | " | |
| Silver | 0.00974 | 0.0203 | 0.00271 | " | " | " | " | " | " | |
| Zinc | 11.7 | 0.406 | 0.270 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: 03/29/23 14:20

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | | mg/kg dry | 1 | BGC1070 | 03/31/23 | 03/31/23 | EPA 7196A | |

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

Date Sampled: 03/29/23 14:20

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|-----|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 80.3 | 0.0507 | | mg/L dry | 1 | BGC0996 | 03/29/23 | 04/01/23 | EPA 6020B | |
| Magnesium | 19.1 | 0.0507 | | " | " | " | " | " | " | |
| Sodium | 915 | 0.0507 | | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: 03/29/23 14:20

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-----|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 23.8 | 0.00100 | | units | 1 | BGD0058 | 04/03/23 | 04/03/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/05/23 12:49

FS01@2.5'
2303693-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/23 14:20**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | MDL | | | | | | | |
| % Solids | 98.5 | | | % | 1 | BGC1012 | 03/30/23 | 03/30/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/23 14:20**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Specific Conductance (EC) | 6.49 | 0.0100 | | mmhos/cm | 1 | BGC1014 | 03/30/23 | 03/30/23 | EPA 120.1 | |

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

Date Sampled: **03/29/23 14:20**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| pH | 7.70 | | | pH Units | 1 | BGC1015 | 03/30/23 | 03/30/23 | EPA 9045D | |

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/05/23 12:49

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGC0993 - EPA 5030 Soil MS

Blank (BGC0993-BLK1)

Prepared & Analyzed: 03/29/23

| | | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|--|
| Benzene | ND | 0.0020 | mg/kg | | | | | | | | |
| Toluene | ND | 0.0050 | " | | | | | | | | |
| Ethylbenzene | ND | 0.0050 | " | | | | | | | | |
| Xylenes (total) | ND | 0.010 | " | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | " | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | " | | | | | | | | |
| Naphthalene | ND | 0.0038 | " | | | | | | | | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0360 | | " | 0.0400 | | 90.1 | 50-150 | | | | |
| Surrogate: Toluene-d8 | 0.0392 | | " | 0.0400 | | 97.9 | 50-150 | | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0396 | | " | 0.0400 | | 98.9 | 50-150 | | | | |

LCS (BGC0993-BS1)

Prepared: 03/29/23 Analyzed: 03/30/23

| | | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|--|
| Benzene | 0.0811 | 0.0020 | mg/kg | 0.100 | | 81.1 | 70-130 | | | | |
| Toluene | 0.0850 | 0.0050 | " | 0.100 | | 85.0 | 70-130 | | | | |
| Ethylbenzene | 0.0973 | 0.0050 | " | 0.100 | | 97.3 | 70-130 | | | | |
| m,p-Xylene | 0.190 | 0.010 | " | 0.200 | | 94.9 | 70-130 | | | | |
| o-Xylene | 0.0946 | 0.0050 | " | 0.100 | | 94.6 | 70-130 | | | | |
| 1,2,4-Trimethylbenzene | 0.0970 | 0.0050 | " | 0.100 | | 97.0 | 70-130 | | | | |
| 1,3,5-Trimethylbenzene | 0.0981 | 0.0050 | " | 0.100 | | 98.1 | 70-130 | | | | |
| Naphthalene | 0.0961 | 0.0038 | " | 0.100 | | 96.1 | 70-130 | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0347 | | " | 0.0400 | | 86.8 | 50-150 | | | | |
| Surrogate: Toluene-d8 | 0.0395 | | " | 0.0400 | | 98.8 | 50-150 | | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0399 | | " | 0.0400 | | 99.8 | 50-150 | | | | |

Matrix Spike (BGC0993-MS1)

Source: 2303691-01

Prepared: 03/29/23 Analyzed: 03/30/23

| | | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|----|------|--------|--|--|--|--|
| Benzene | 0.0797 | 0.0020 | mg/kg | 0.100 | ND | 79.7 | 70-130 | | | | |
| Toluene | 0.0840 | 0.0050 | " | 0.100 | ND | 84.0 | 70-130 | | | | |
| Ethylbenzene | 0.101 | 0.0050 | " | 0.100 | ND | 101 | 70-130 | | | | |
| m,p-Xylene | 0.194 | 0.010 | " | 0.200 | ND | 97.1 | 70-130 | | | | |
| o-Xylene | 0.0968 | 0.0050 | " | 0.100 | ND | 96.8 | 70-130 | | | | |
| 1,2,4-Trimethylbenzene | 0.0978 | 0.0050 | " | 0.100 | ND | 97.8 | 70-130 | | | | |
| 1,3,5-Trimethylbenzene | 0.0991 | 0.0050 | " | 0.100 | ND | 99.1 | 70-130 | | | | |
| Naphthalene | 0.106 | 0.0038 | " | 0.100 | ND | 106 | 70-130 | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0340 | | " | 0.0400 | | 85.0 | 50-150 | | | | |
| Surrogate: Toluene-d8 | 0.0390 | | " | 0.0400 | | 97.6 | 50-150 | | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0391 | | " | 0.0400 | | 97.6 | 50-150 | | | | |

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/05/23 12:49

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BGC0993 - EPA 5030 Soil MS

| Matrix Spike Dup (BGC0993-MSD1) | Source: 2303691-01 | | | Prepared: 03/29/23 Analyzed: 03/30/23 | | | | | | |
|---|---------------------------|--------|----------|--|----|-------------|---------------|------|----|--|
| Benzene | 0.0821 | 0.0020 | mg/kg | 0.100 | ND | 82.1 | 70-130 | 2.93 | 30 | |
| Toluene | 0.0878 | 0.0050 | " | 0.100 | ND | 87.8 | 70-130 | 4.40 | 30 | |
| Ethylbenzene | 0.0982 | 0.0050 | " | 0.100 | ND | 98.2 | 70-130 | 2.53 | 30 | |
| m,p-Xylene | 0.188 | 0.010 | " | 0.200 | ND | 94.1 | 70-130 | 3.07 | 30 | |
| o-Xylene | 0.0942 | 0.0050 | " | 0.100 | ND | 94.2 | 70-130 | 2.80 | 30 | |
| 1,2,4-Trimethylbenzene | 0.0963 | 0.0050 | " | 0.100 | ND | 96.3 | 70-130 | 1.58 | 30 | |
| 1,3,5-Trimethylbenzene | 0.0964 | 0.0050 | " | 0.100 | ND | 96.4 | 70-130 | 2.70 | 30 | |
| Naphthalene | 0.108 | 0.0038 | " | 0.100 | ND | 108 | 70-130 | 2.33 | 30 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>0.0359</i> | | <i>"</i> | <i>0.0400</i> | | <i>89.8</i> | <i>50-150</i> | | | |
| <i>Surrogate: Toluene-d8</i> | <i>0.0402</i> | | <i>"</i> | <i>0.0400</i> | | <i>100</i> | <i>50-150</i> | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>0.0391</i> | | <i>"</i> | <i>0.0400</i> | | <i>97.8</i> | <i>50-150</i> | | | |

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/05/23 12:49

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGC0994 - EPA 3550A

Blank (BGC0994-BLK1)

Prepared: 03/29/23 Analyzed: 03/30/23

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|--|-----|--|--------|--|--|--|
| C10-C28 (DRO) | ND | 50 | mg/kg | | | | | | | | |
| C28-C36 (ORO) | ND | 50 | " | | | | | | | | |
| Surrogate: <i>o</i> -Terphenyl | 13.2 | | " | 12.5 | | 105 | | 30-150 | | | |

LCS (BGC0994-BS1)

Prepared: 03/29/23 Analyzed: 03/30/23

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|--|------|--|--------|--|--|--|
| C10-C28 (DRO) | 493 | 50 | mg/kg | 500 | | 98.6 | | 70-130 | | | |
| Surrogate: <i>o</i> -Terphenyl | 13.8 | | " | 12.5 | | 110 | | 30-150 | | | |

Matrix Spike (BGC0994-MS1)

Source: 2303691-01

Prepared: 03/29/23 Analyzed: 03/30/23

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|------|------|--|--------|--|--|--|
| C10-C28 (DRO) | 419 | 50 | mg/kg | 500 | 18.7 | 80.1 | | 70-130 | | | |
| Surrogate: <i>o</i> -Terphenyl | 13.1 | | " | 12.5 | | 105 | | 30-150 | | | |

Matrix Spike Dup (BGC0994-MSD1)

Source: 2303691-01

Prepared: 03/29/23 Analyzed: 03/30/23

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|------|------|--|--------|------|----|--|
| C10-C28 (DRO) | 453 | 50 | mg/kg | 500 | 18.7 | 86.9 | | 70-130 | 7.78 | 20 | |
| Surrogate: <i>o</i> -Terphenyl | 12.4 | | " | 12.5 | | 99.2 | | 30-150 | | | |

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/05/23 12:49

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGC1040 - EPA 5030 Soil MS

Blank (BGC1040-BLK1)

Prepared: 03/31/23 Analyzed: 04/01/23

| | | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|--|------|--------|--|--|--|
| Acenaphthene | ND | 0.00500 | mg/kg | | | | | | | |
| Anthracene | ND | 0.00500 | " | | | | | | | |
| Benzo (a) anthracene | ND | 0.00500 | " | | | | | | | |
| Benzo (a) pyrene | ND | 0.00500 | " | | | | | | | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | | | | | | | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | | | | | | | |
| Chrysene | ND | 0.00500 | " | | | | | | | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | | | | | | | |
| Fluoranthene | ND | 0.00500 | " | | | | | | | |
| Fluorene | ND | 0.00500 | " | | | | | | | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | | | | | | | |
| Pyrene | ND | 0.00500 | " | | | | | | | |
| 1-Methylnaphthalene | ND | 0.00500 | " | | | | | | | |
| 2-Methylnaphthalene | ND | 0.00500 | " | | | | | | | |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0329 | | " | 0.0333 | | 98.8 | 40-150 | | | |
| Surrogate: Fluoranthene-d10 | 0.0356 | | " | 0.0333 | | 107 | 40-150 | | | |

LCS (BGC1040-BS1)

Prepared: 03/31/23 Analyzed: 04/01/23

| | | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|--|------|--------|--|--|--|
| Acenaphthene | 0.0266 | 0.00500 | mg/kg | 0.0333 | | 79.8 | 31-137 | | | |
| Anthracene | 0.0256 | 0.00500 | " | 0.0333 | | 76.7 | 30-120 | | | |
| Benzo (a) anthracene | 0.0266 | 0.00500 | " | 0.0333 | | 79.9 | 30-120 | | | |
| Benzo (a) pyrene | 0.0256 | 0.00500 | " | 0.0333 | | 76.9 | 30-120 | | | |
| Benzo (b) fluoranthene | 0.0251 | 0.00500 | " | 0.0333 | | 75.3 | 30-120 | | | |
| Benzo (k) fluoranthene | 0.0246 | 0.00500 | " | 0.0333 | | 73.8 | 30-120 | | | |
| Chrysene | 0.0222 | 0.00500 | " | 0.0333 | | 66.5 | 30-120 | | | |
| Dibenz (a,h) anthracene | 0.0292 | 0.00500 | " | 0.0333 | | 87.7 | 30-120 | | | |
| Fluoranthene | 0.0279 | 0.00500 | " | 0.0333 | | 83.8 | 30-120 | | | |
| Fluorene | 0.0262 | 0.00500 | " | 0.0333 | | 78.5 | 30-120 | | | |
| Indeno (1,2,3-cd) pyrene | 0.0266 | 0.00500 | " | 0.0333 | | 79.7 | 30-120 | | | |
| Pyrene | 0.0260 | 0.00500 | " | 0.0333 | | 78.1 | 35-142 | | | |
| 1-Methylnaphthalene | 0.0302 | 0.00500 | " | 0.0333 | | 90.5 | 35-142 | | | |
| 2-Methylnaphthalene | 0.0265 | 0.00500 | " | 0.0333 | | 79.4 | 35-142 | | | |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0300 | | " | 0.0333 | | 90.1 | 40-150 | | | |
| Surrogate: Fluoranthene-d10 | 0.0302 | | " | 0.0333 | | 90.7 | 40-150 | | | |

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/05/23 12:49

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGC1040 - EPA 5030 Soil MS

Matrix Spike (BGC1040-MS1)

Source: 2303609-01

Prepared: 03/31/23 Analyzed: 04/01/23

| | | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|----|------|--------|--|--|--|
| Acenaphthene | 0.0196 | 0.00500 | mg/kg | 0.0333 | ND | 58.9 | 31-137 | | | |
| Anthracene | 0.0188 | 0.00500 | " | 0.0333 | ND | 56.3 | 30-120 | | | |
| Benzo (a) anthracene | 0.0228 | 0.00500 | " | 0.0333 | ND | 68.5 | 30-120 | | | |
| Benzo (a) pyrene | 0.0206 | 0.00500 | " | 0.0333 | ND | 61.7 | 30-120 | | | |
| Benzo (b) fluoranthene | 0.0184 | 0.00500 | " | 0.0333 | ND | 55.1 | 30-120 | | | |
| Benzo (k) fluoranthene | 0.0173 | 0.00500 | " | 0.0333 | ND | 52.0 | 30-120 | | | |
| Chrysene | 0.0154 | 0.00500 | " | 0.0333 | ND | 46.1 | 30-120 | | | |
| Dibenz (a,h) anthracene | 0.0175 | 0.00500 | " | 0.0333 | ND | 52.5 | 30-120 | | | |
| Fluoranthene | 0.0216 | 0.00500 | " | 0.0333 | ND | 64.9 | 30-120 | | | |
| Fluorene | 0.0190 | 0.00500 | " | 0.0333 | ND | 57.0 | 30-120 | | | |
| Indeno (1,2,3-cd) pyrene | 0.0165 | 0.00500 | " | 0.0333 | ND | 49.6 | 30-120 | | | |
| Pyrene | 0.0195 | 0.00500 | " | 0.0333 | ND | 58.4 | 35-142 | | | |
| 1-Methylnaphthalene | 0.0183 | 0.00500 | " | 0.0333 | ND | 54.9 | 15-130 | | | |
| 2-Methylnaphthalene | 0.0184 | 0.00500 | " | 0.0333 | ND | 55.3 | 15-130 | | | |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0205 | | " | 0.0333 | | 61.6 | 40-150 | | | |
| Surrogate: Fluoranthene-d10 | 0.0249 | | " | 0.0333 | | 74.8 | 40-150 | | | |

Matrix Spike Dup (BGC1040-MSD1)

Source: 2303609-01

Prepared: 03/31/23 Analyzed: 04/01/23

| | | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|----|------|--------|------|----|--|
| Acenaphthene | 0.0209 | 0.00500 | mg/kg | 0.0333 | ND | 62.8 | 31-137 | 6.40 | 30 | |
| Anthracene | 0.0200 | 0.00500 | " | 0.0333 | ND | 60.1 | 30-120 | 6.48 | 30 | |
| Benzo (a) anthracene | 0.0243 | 0.00500 | " | 0.0333 | ND | 73.0 | 30-120 | 6.30 | 30 | |
| Benzo (a) pyrene | 0.0216 | 0.00500 | " | 0.0333 | ND | 64.9 | 30-120 | 5.17 | 30 | |
| Benzo (b) fluoranthene | 0.0198 | 0.00500 | " | 0.0333 | ND | 59.4 | 30-120 | 7.46 | 30 | |
| Benzo (k) fluoranthene | 0.0183 | 0.00500 | " | 0.0333 | ND | 54.8 | 30-120 | 5.22 | 30 | |
| Chrysene | 0.0162 | 0.00500 | " | 0.0333 | ND | 48.5 | 30-120 | 5.14 | 30 | |
| Dibenz (a,h) anthracene | 0.0211 | 0.00500 | " | 0.0333 | ND | 63.4 | 30-120 | 18.8 | 30 | |
| Fluoranthene | 0.0223 | 0.00500 | " | 0.0333 | ND | 67.0 | 30-120 | 3.19 | 30 | |
| Fluorene | 0.0206 | 0.00500 | " | 0.0333 | ND | 61.7 | 30-120 | 7.76 | 30 | |
| Indeno (1,2,3-cd) pyrene | 0.0196 | 0.00500 | " | 0.0333 | ND | 58.8 | 30-120 | 16.9 | 30 | |
| Pyrene | 0.0205 | 0.00500 | " | 0.0333 | ND | 61.5 | 35-142 | 5.06 | 30 | |
| 1-Methylnaphthalene | 0.0214 | 0.00500 | " | 0.0333 | ND | 64.1 | 15-130 | 15.4 | 50 | |
| 2-Methylnaphthalene | 0.0200 | 0.00500 | " | 0.0333 | ND | 60.0 | 15-130 | 8.11 | 50 | |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0246 | | " | 0.0333 | | 73.9 | 40-150 | | | |
| Surrogate: Fluoranthene-d10 | 0.0258 | | " | 0.0333 | | 77.4 | 40-150 | | | |

Summit Scientific

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

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/05/23 12:49

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 BGC1005 - EPA 3050B

Blank (BGC1005-BLK1)

Prepared: 03/30/23 Analyzed: 04/01/23

Boron ND 0.0100 mg/L

LCS (BGC1005-BS1)

Prepared: 03/30/23 Analyzed: 04/01/23

Boron 5.21 0.0100 mg/L 5.00 104 80-120

Duplicate (BGC1005-DUP1)

Source: 2303647-01

Prepared: 03/30/23 Analyzed: 04/01/23

Boron 0.125 0.0100 mg/L 0.136 8.10 20

Matrix Spike (BGC1005-MS1)

Source: 2303647-01

Prepared: 03/30/23 Analyzed: 04/01/23

Boron 5.33 0.0100 mg/L 5.00 0.136 104 75-125

Matrix Spike Dup (BGC1005-MSD1)

Source: 2303647-01

Prepared: 03/30/23 Analyzed: 04/01/23

Boron 5.56 0.0100 mg/L 5.00 0.136 108 75-125 4.14 25

Summit Scientific

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





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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/05/23 12:49

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGC0997 - EPA 3050B

Blank (BGC0997-BLK1)

Prepared: 03/29/23 Analyzed: 03/31/23

| | | | | | | | | | | |
|----------|----|--------|-----------|--|--|--|--|--|--|--|
| Arsenic | ND | 0.200 | mg/kg wet | | | | | | | |
| Barium | ND | 0.400 | " | | | | | | | |
| Cadmium | ND | 0.200 | " | | | | | | | |
| Copper | ND | 0.400 | " | | | | | | | |
| Lead | ND | 0.200 | " | | | | | | | |
| Nickel | ND | 0.400 | " | | | | | | | |
| Selenium | ND | 0.260 | " | | | | | | | |
| Silver | ND | 0.0200 | " | | | | | | | |
| Zinc | ND | 0.400 | " | | | | | | | |

LCS (BGC0997-BS1)

Prepared: 03/29/23 Analyzed: 03/31/23

| | | | | | | |
|----------|------|--------|-----------|------|------|--------|
| Arsenic | 39.6 | 0.200 | mg/kg wet | 40.0 | 99.0 | 80-120 |
| Barium | 38.4 | 0.400 | " | 40.0 | 95.9 | 80-120 |
| Cadmium | 1.91 | 0.200 | " | 2.00 | 95.4 | 80-120 |
| Copper | 39.7 | 0.400 | " | 40.0 | 99.2 | 80-120 |
| Lead | 19.2 | 0.200 | " | 20.0 | 96.1 | 80-120 |
| Nickel | 38.3 | 0.400 | " | 40.0 | 95.7 | 80-120 |
| Selenium | 3.59 | 0.260 | " | 4.00 | 89.7 | 80-120 |
| Silver | 1.93 | 0.0200 | " | 2.00 | 96.3 | 80-120 |
| Zinc | 38.0 | 0.400 | " | 40.0 | 94.9 | 80-120 |

Duplicate (BGC0997-DUP1)

Source: 2303682-01

Prepared: 03/29/23 Analyzed: 03/31/23

| | | | | | | |
|----------|--------|--------|-----------|--------|--------|----|
| Arsenic | 1.36 | 0.238 | mg/kg dry | 1.34 | 2.01 | 20 |
| Barium | 60.1 | 0.477 | " | 59.8 | 0.465 | 20 |
| Cadmium | 0.131 | 0.238 | " | 0.129 | 1.10 | 20 |
| Copper | 3.80 | 0.477 | " | 3.77 | 0.818 | 20 |
| Lead | 4.27 | 0.238 | " | 4.24 | 0.683 | 20 |
| Nickel | 4.29 | 0.477 | " | 4.28 | 0.0778 | 20 |
| Selenium | ND | 0.260 | " | ND | | 20 |
| Silver | 0.0119 | 0.0238 | " | 0.0138 | 14.8 | 20 |
| Zinc | 15.4 | 0.477 | " | 15.4 | 0.256 | 20 |

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/05/23 12:49

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGC0997 - EPA 3050B

Matrix Spike (BGC0997-MS1)

Source: 2303682-01

Prepared: 03/29/23 Analyzed: 03/31/23

| | | | | | | | | | | | |
|----------|------|--------|-----------|------|--------|------|--------|--|--|--|-------|
| Arsenic | 46.9 | 0.238 | mg/kg dry | 47.7 | 1.34 | 95.6 | 75-125 | | | | |
| Barium | 109 | 0.477 | " | 47.7 | 59.8 | 103 | 75-125 | | | | |
| Cadmium | 2.36 | 0.238 | " | 2.38 | 0.129 | 93.4 | 75-125 | | | | |
| Copper | 37.6 | 0.477 | " | 47.7 | 3.77 | 71.1 | 75-125 | | | | QM-07 |
| Lead | 26.2 | 0.238 | " | 23.8 | 4.24 | 92.3 | 75-125 | | | | |
| Nickel | 36.8 | 0.477 | " | 47.7 | 4.28 | 68.1 | 75-125 | | | | QM-07 |
| Selenium | 3.42 | 0.260 | " | 4.77 | ND | 71.7 | 75-125 | | | | QM-07 |
| Silver | 2.15 | 0.0238 | " | 2.38 | 0.0138 | 89.5 | 75-125 | | | | |
| Zinc | 49.7 | 0.477 | " | 47.7 | 15.4 | 71.9 | 75-125 | | | | QM-07 |

Matrix Spike Dup (BGC0997-MSD1)

Source: 2303682-01

Prepared: 03/29/23 Analyzed: 03/31/23

| | | | | | | | | | | | |
|----------|------|--------|-----------|------|--------|------|--------|--------|----|--|-------|
| Arsenic | 49.2 | 0.238 | mg/kg dry | 47.7 | 1.34 | 100 | 75-125 | 4.86 | 25 | | |
| Barium | 109 | 0.477 | " | 47.7 | 59.8 | 103 | 75-125 | 0.0964 | 25 | | |
| Cadmium | 2.40 | 0.238 | " | 2.38 | 0.129 | 95.2 | 75-125 | 1.76 | 25 | | |
| Copper | 40.1 | 0.477 | " | 47.7 | 3.77 | 76.3 | 75-125 | 6.43 | 25 | | |
| Lead | 26.5 | 0.238 | " | 23.8 | 4.24 | 93.6 | 75-125 | 1.15 | 25 | | |
| Nickel | 38.1 | 0.477 | " | 47.7 | 4.28 | 71.0 | 75-125 | 3.63 | 25 | | QM-07 |
| Selenium | 3.41 | 0.260 | " | 4.77 | ND | 71.6 | 75-125 | 0.181 | 25 | | QM-07 |
| Silver | 2.19 | 0.0238 | " | 2.38 | 0.0138 | 91.4 | 75-125 | 2.15 | 25 | | |
| Zinc | 51.4 | 0.477 | " | 47.7 | 15.4 | 75.5 | 75-125 | 3.31 | 25 | | |

Summit Scientific

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

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/05/23 12:49

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGC1070 - 3060A Mod

Blank (BGC1070-BLK1)

Prepared & Analyzed: 03/31/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGC1070-BS1)

Prepared & Analyzed: 03/31/23

Chromium, Hexavalent 22.4 0.30 mg/kg wet 25.0 89.6 80-120

Duplicate (BGC1070-DUP1)

Source: 2303690-07

Prepared & Analyzed: 03/31/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGC1070-MS1)

Source: 2303690-07

Prepared & Analyzed: 03/31/23

Chromium, Hexavalent 24.1 0.30 mg/kg dry 30.0 ND 80.2 75-125

Matrix Spike Dup (BGC1070-MSD1)

Source: 2303690-07

Prepared & Analyzed: 03/31/23

Chromium, Hexavalent 25.7 0.30 mg/kg dry 30.0 ND 85.6 75-125 6.51 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 - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/05/23 12:49

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 BGC0996 - General Preparation

Blank (BGC0996-BLK1)

Prepared: 03/29/23 Analyzed: 04/01/23

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

LCS (BGC0996-BS1)

Prepared: 03/29/23 Analyzed: 04/01/23

| | | | | | | | | | | |
|-----------|------|--------|----------|------|--|-----|--------|--|--|--|
| Calcium | 6.03 | 0.0500 | mg/L wet | 5.00 | | 121 | 70-130 | | | |
| Magnesium | 5.16 | 0.0500 | " | 5.00 | | 103 | 70-130 | | | |
| Sodium | 5.47 | 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 - SLW Ranch B12-65-1HN Project Number: [none] Project Manager: Jacob Whritenour | Reported: 04/05/23 12:49 |
|--|--|------------------------------------|

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

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

Batch BGC1012 - General Preparation

| | | | | | | | | | | |
|---------------------------------|---------------------------|---|--|--|------|--|--|-------|----|--|
| Duplicate (BGC1012-DUP1) | Source: 2303422-04 | | Prepared & Analyzed: 03/30/23 | | | | | | | |
| % Solids | 87.2 | % | | | 87.5 | | | 0.321 | 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 - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/05/23 12:49

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 BGC1014 - General Preparation

Blank (BGC1014-BLK1)

Prepared & Analyzed: 03/30/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGC1014-BS1)

Prepared & Analyzed: 03/30/23

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

Duplicate (BGC1014-DUP1)

Source: 2303682-01

Prepared & Analyzed: 03/30/23

Specific Conductance (EC) 1.04 0.0100 mmhos/cm 1.06 1.62 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 - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/05/23 12:49

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

Summit Scientific

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

Batch BGC1015 - General Preparation

LCS (BGC1015-BS1)

Prepared & Analyzed: 03/30/23

| | | | | | |
|----|------|----------|------|------|--------|
| pH | 9.08 | pH Units | 9.18 | 98.9 | 95-105 |
|----|------|----------|------|------|--------|

Duplicate (BGC1015-DUP1)

Source: 2303682-01

Prepared & Analyzed: 03/30/23

| | | | | | |
|----|------|----------|------|------|----|
| pH | 7.66 | pH Units | 7.76 | 1.30 | 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 - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/05/23 12:49

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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

April 19, 2023

Jacob Whritenour

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: Noble - SLW Ranch B12-65-1HN

Work Order # 2304203

Enclosed are the results of analyses for samples received by Summit Scientific on 04/11/23 17:58. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury

President

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/19/23 12:36

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| FS03@2.5' | 2304203-01 | Soil | 04/11/23 09:46 | 04/11/23 17:58 |



SUMMIT SCIENTIFIC

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

| | |
|----------------|-------------|
| Lab ID | Page 1 of 1 |
| 2304203 | |

| | | |
|--------------------------------------|---|--|
| 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>SLW Ranch B12-65-1HN</i> |
| City/State/Zip: Broomfield/CO/ 80020 | | AFE#: |
| Phone: 602-881-5716 | Project Name: <i>SLW Ranch B12-65-1HN</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>F503 @ 2.5'</i> | <i>4-11-23</i> | <i>946</i> | <i>2</i> | | | <input checked="" type="checkbox"/> | | | | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | | SAR, EC, pH by saturated paste |
| 2 | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | |
|---|---------------------------------|-------------------------------------|--------------------------------|--|-------------|--------|
| Relinquished by: <i>[Signature]</i> | Date/Time: <i>4-11-23 1630</i> | Received by: Tasman Lock Box | Date/Time: <i>4-11-23 1630</i> | TAT Business Days | Field DO | Notes: |
| | | | | Same Day <input checked="" type="checkbox"/> | Field EC | |
| Relinquished by: Tasman Lock Box | Date/Time: <i>4-11-23 1758</i> | Received by: <i>[Signature]</i> | Date/Time: <i>4-11-23 1758</i> | 1 Day | Field ORP | |
| | | | | 2 Days | Field pH | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 3 Days | Field Temp. | |
| | | | | Standard | Field Turb. | |
| Temperature Upon Receipt: <i>9.9</i> | Corrected Temperature: <i>6</i> | IR gun #: <i>1</i> | HNO3 lot #: | | | |

S₂

Sample Receipt Checklist

S2 Work Order# 2304203

Client: Noble/Trasman Client Project ID: SLW Ranch B12-C09-1HN

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

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

Temp (°C) Thermometer #

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

Additional Comments (if any):

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

[Signature]
Custodian Printed Name

4-11-23
Date/Time



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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/19/23 12:36

FS03@2.5'
2304203-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/11/23 09:46**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BGD0346 | 04/11/23 | 04/12/23 | 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: **04/11/23 09:46**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|-----|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | MDL | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 105 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 101 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 104 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/11/23 09:46**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BGD0345 | 04/11/23 | 04/11/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **04/11/23 09:46**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|-----|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | MDL | | | | | | | |
| Surrogate: o-Terphenyl | | 90.9 % | | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/19/23 12:36

FS03@2.5'
2304203-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/11/23 09:46**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-----|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | | mg/kg | 1 | BGD0359 | 04/12/23 | 04/13/23 | 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: **04/11/23 09:46**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|-----|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | | 42.0 % | | 40-150 | | " | " | " | " | " |
| Surrogate: Fluoranthene-d10 | | 55.4 % | | 40-150 | | " | " | " | " | " |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/11/23 09:46**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|--------------|-----------------|-----|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 0.231 | 0.0100 | | mg/L | 1 | BGD0367 | 04/12/23 | 04/18/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **04/11/23 09:46**

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

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/19/23 12:36

FS03@2.5'
2304203-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|--------|-------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 2.42 | 0.205 | | mg/kg dry | 1 | BGD0362 | 04/12/23 | 04/18/23 | EPA 6020B | |
| Barium | 48.6 | 0.409 | | " | " | " | " | " | " | |
| Cadmium | ND | 0.205 | | " | " | " | " | " | " | |
| Copper | 4.15 | 0.409 | | " | " | " | " | " | " | |
| Lead | 3.44 | 0.205 | | " | " | " | " | " | " | |
| Nickel | 3.11 | 0.409 | | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | 0.175 | " | " | " | " | " | " | |
| Silver | ND | 0.0205 | | " | " | " | " | " | " | |
| Zinc | 14.4 | 0.409 | | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/11/23 09:46**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | | mg/kg dry | 1 | BGD0383 | 04/12/23 | 04/12/23 | EPA 7196A | |

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

Date Sampled: **04/11/23 09:46**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|-----|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 83.6 | 0.0512 | | mg/L dry | 1 | BGD0351 | 04/12/23 | 04/17/23 | EPA 6020B | |
| Magnesium | 37.0 | 0.0512 | | " | " | " | " | " | " | |
| Sodium | 112 | 0.0512 | | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **04/11/23 09:46**

| Analyte | Result | Reporting Limit | MDL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-----|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 2.56 | 0.00100 | | units | 1 | BGD0550 | 04/18/23 | 04/18/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/19/23 12:36

FS03@2.5'
2304203-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/11/23 09:46**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | MDL | | | | | | | |
| % Solids | 97.7 | | | % | 1 | BGD0365 | 04/12/23 | 04/12/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/11/23 09:46**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Specific Conductance (EC) | 3.60 | 0.0100 | | mmhos/cm | 1 | BGD0386 | 04/12/23 | 04/12/23 | EPA 120.1 | |

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

Date Sampled: **04/11/23 09:46**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| pH | 7.80 | | | pH Units | 1 | BGD0385 | 04/12/23 | 04/12/23 | EPA 9045D | |

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/19/23 12:36

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 BGD0346 - EPA 5030 Soil MS

Blank (BGD0346-BLK1)

Prepared: 04/11/23 Analyzed: 04/13/23

| | | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|--|
| Benzene | ND | 0.0020 | mg/kg | | | | | | | | |
| Toluene | ND | 0.0050 | " | | | | | | | | |
| Ethylbenzene | ND | 0.0050 | " | | | | | | | | |
| Xylenes (total) | ND | 0.010 | " | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | " | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | " | | | | | | | | |
| Naphthalene | ND | 0.0038 | " | | | | | | | | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0388 | | " | 0.0400 | | 97.0 | 50-150 | | | | |
| Surrogate: Toluene-d8 | 0.0364 | | " | 0.0400 | | 90.9 | 50-150 | | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0381 | | " | 0.0400 | | 95.3 | 50-150 | | | | |

LCS (BGD0346-BS1)

Prepared: 04/11/23 Analyzed: 04/13/23

| | | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|--|
| Benzene | 0.108 | 0.0020 | mg/kg | 0.125 | | 86.7 | 70-130 | | | | |
| Toluene | 0.140 | 0.0050 | " | 0.125 | | 112 | 70-130 | | | | |
| Ethylbenzene | 0.143 | 0.0050 | " | 0.125 | | 114 | 70-130 | | | | |
| m,p-Xylene | 0.290 | 0.010 | " | 0.250 | | 116 | 70-130 | | | | |
| o-Xylene | 0.134 | 0.0050 | " | 0.125 | | 107 | 70-130 | | | | |
| 1,2,4-Trimethylbenzene | 0.156 | 0.0050 | " | 0.125 | | 125 | 70-130 | | | | |
| 1,3,5-Trimethylbenzene | 0.154 | 0.0050 | " | 0.125 | | 123 | 70-130 | | | | |
| Naphthalene | 0.154 | 0.0038 | " | 0.125 | | 124 | 70-130 | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0395 | | " | 0.0400 | | 98.8 | 50-150 | | | | |
| Surrogate: Toluene-d8 | 0.0366 | | " | 0.0400 | | 91.4 | 50-150 | | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0367 | | " | 0.0400 | | 91.6 | 50-150 | | | | |

Matrix Spike (BGD0346-MS1)

Source: 2304192-01

Prepared: 04/11/23 Analyzed: 04/13/23

| | | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|----|------|--------|--|--|--|--|
| Benzene | 0.109 | 0.0020 | mg/kg | 0.125 | ND | 87.6 | 70-130 | | | | |
| Toluene | 0.141 | 0.0050 | " | 0.125 | ND | 113 | 70-130 | | | | |
| Ethylbenzene | 0.144 | 0.0050 | " | 0.125 | ND | 115 | 70-130 | | | | |
| m,p-Xylene | 0.286 | 0.010 | " | 0.250 | ND | 115 | 70-130 | | | | |
| o-Xylene | 0.136 | 0.0050 | " | 0.125 | ND | 108 | 70-130 | | | | |
| 1,2,4-Trimethylbenzene | 0.156 | 0.0050 | " | 0.125 | ND | 125 | 70-130 | | | | |
| 1,3,5-Trimethylbenzene | 0.153 | 0.0050 | " | 0.125 | ND | 122 | 70-130 | | | | |
| Naphthalene | 0.151 | 0.0038 | " | 0.125 | ND | 121 | 70-130 | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0423 | | " | 0.0400 | | 106 | 50-150 | | | | |
| Surrogate: Toluene-d8 | 0.0368 | | " | 0.0400 | | 92.1 | 50-150 | | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0372 | | " | 0.0400 | | 92.9 | 50-150 | | | | |

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/19/23 12:36

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 BGD0346 - EPA 5030 Soil MS

| Matrix Spike Dup (BGD0346-MSD1) | Source: 2304192-01 | | | Prepared: 04/11/23 Analyzed: 04/13/23 | | | | | | |
|---|---------------------------|--------|----------|--|----|-------------|---------------|-------|----|--|
| Benzene | 0.110 | 0.0020 | mg/kg | 0.125 | ND | 88.3 | 70-130 | 0.792 | 30 | |
| Toluene | 0.143 | 0.0050 | " | 0.125 | ND | 115 | 70-130 | 1.71 | 30 | |
| Ethylbenzene | 0.145 | 0.0050 | " | 0.125 | ND | 116 | 70-130 | 0.912 | 30 | |
| m,p-Xylene | 0.290 | 0.010 | " | 0.250 | ND | 116 | 70-130 | 1.22 | 30 | |
| o-Xylene | 0.138 | 0.0050 | " | 0.125 | ND | 111 | 70-130 | 1.97 | 30 | |
| 1,2,4-Trimethylbenzene | 0.158 | 0.0050 | " | 0.125 | ND | 126 | 70-130 | 1.15 | 30 | |
| 1,3,5-Trimethylbenzene | 0.155 | 0.0050 | " | 0.125 | ND | 124 | 70-130 | 1.36 | 30 | |
| Naphthalene | 0.143 | 0.0038 | " | 0.125 | ND | 114 | 70-130 | 5.58 | 30 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>0.0409</i> | | <i>"</i> | <i>0.0400</i> | | <i>102</i> | <i>50-150</i> | | | |
| <i>Surrogate: Toluene-d8</i> | <i>0.0372</i> | | <i>"</i> | <i>0.0400</i> | | <i>93.0</i> | <i>50-150</i> | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>0.0370</i> | | <i>"</i> | <i>0.0400</i> | | <i>92.5</i> | <i>50-150</i> | | | |

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/19/23 12:36

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 BGD0345 - EPA 3550A

Blank (BGD0345-BLK1)

Prepared: 04/11/23 Analyzed: 04/13/23

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|--|------|--------|--|--|--|--|
| C10-C28 (DRO) | ND | 50 | mg/kg | | | | | | | | |
| C28-C36 (ORO) | ND | 50 | " | | | | | | | | |
| Surrogate: <i>o</i> -Terphenyl | 9.19 | | " | 12.5 | | 73.6 | 30-150 | | | | |

LCS (BGD0345-BS1)

Prepared: 04/11/23 Analyzed: 04/13/23

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|--|------|--------|--|--|--|--|
| C10-C28 (DRO) | 414 | 50 | mg/kg | 500 | | 82.9 | 70-130 | | | | |
| Surrogate: <i>o</i> -Terphenyl | 9.18 | | " | 12.5 | | 73.4 | 30-150 | | | | |

Matrix Spike (BGD0345-MS1)

Source: 2304192-01

Prepared: 04/11/23 Analyzed: 04/13/23

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|------|------|--------|--|--|--|--|
| C10-C28 (DRO) | 429 | 50 | mg/kg | 500 | 24.5 | 80.9 | 70-130 | | | | |
| Surrogate: <i>o</i> -Terphenyl | 6.82 | | " | 12.5 | | 54.6 | 30-150 | | | | |

Matrix Spike Dup (BGD0345-MSD1)

Source: 2304192-01

Prepared: 04/11/23 Analyzed: 04/13/23

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|------|------|--------|------|----|--|--|
| C10-C28 (DRO) | 446 | 50 | mg/kg | 500 | 24.5 | 84.3 | 70-130 | 3.85 | 20 | | |
| Surrogate: <i>o</i> -Terphenyl | 10.0 | | " | 12.5 | | 80.2 | 30-150 | | | | |

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/19/23 12:36

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGD0359 - EPA 5030 Soil MS

Blank (BGD0359-BLK1)

Prepared: 04/12/23 Analyzed: 04/13/23

| | | | | | | | | | | |
|---|--------|---------|-------|--------|--|------|--------|--|--|--|
| 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> | 0.0224 | | " | 0.0333 | | 67.1 | 40-150 | | | |
| <i>Surrogate: Fluoranthene-d10</i> | 0.0232 | | " | 0.0333 | | 69.5 | 40-150 | | | |

LCS (BGD0359-BS1)

Prepared: 04/12/23 Analyzed: 04/13/23

| | | | | | | | | | | |
|---|--------|---------|-------|--------|--|------|--------|--|--|--|
| Acenaphthene | 0.0287 | 0.00500 | mg/kg | 0.0333 | | 86.1 | 31-137 | | | |
| Anthracene | 0.0245 | 0.00500 | " | 0.0333 | | 73.5 | 30-120 | | | |
| Benzo (a) anthracene | 0.0218 | 0.00500 | " | 0.0333 | | 65.3 | 30-120 | | | |
| Benzo (a) pyrene | 0.0218 | 0.00500 | " | 0.0333 | | 65.5 | 30-120 | | | |
| Benzo (b) fluoranthene | 0.0233 | 0.00500 | " | 0.0333 | | 69.8 | 30-120 | | | |
| Benzo (k) fluoranthene | 0.0186 | 0.00500 | " | 0.0333 | | 55.8 | 30-120 | | | |
| Chrysene | 0.0176 | 0.00500 | " | 0.0333 | | 52.9 | 30-120 | | | |
| Dibenz (a,h) anthracene | 0.0202 | 0.00500 | " | 0.0333 | | 60.5 | 30-120 | | | |
| Fluoranthene | 0.0233 | 0.00500 | " | 0.0333 | | 69.9 | 30-120 | | | |
| Fluorene | 0.0255 | 0.00500 | " | 0.0333 | | 76.5 | 30-120 | | | |
| Indeno (1,2,3-cd) pyrene | 0.0270 | 0.00500 | " | 0.0333 | | 81.0 | 30-120 | | | |
| Pyrene | 0.0169 | 0.00500 | " | 0.0333 | | 50.8 | 35-142 | | | |
| 1-Methylnaphthalene | 0.0214 | 0.00500 | " | 0.0333 | | 64.1 | 35-142 | | | |
| 2-Methylnaphthalene | 0.0275 | 0.00500 | " | 0.0333 | | 82.5 | 35-142 | | | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | 0.0233 | | " | 0.0333 | | 69.8 | 40-150 | | | |
| <i>Surrogate: Fluoranthene-d10</i> | 0.0291 | | " | 0.0333 | | 87.4 | 40-150 | | | |

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/19/23 12:36

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 | | |

Batch BGD0359 - EPA 5030 Soil MS

Matrix Spike (BGD0359-MS1)

Source: 2304142-01

Prepared: 04/12/23 Analyzed: 04/13/23

| | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|----------|------|--------|--|--|
| Acenaphthene | 0.0219 | 0.00500 | mg/kg | 0.0333 | ND | 65.6 | 31-137 | | |
| Anthracene | 0.0188 | 0.00500 | " | 0.0333 | ND | 56.3 | 30-120 | | |
| Benzo (a) anthracene | 0.0158 | 0.00500 | " | 0.0333 | 0.00103 | 44.4 | 30-120 | | |
| Benzo (a) pyrene | 0.0167 | 0.00500 | " | 0.0333 | ND | 50.0 | 30-120 | | |
| Benzo (b) fluoranthene | 0.0158 | 0.00500 | " | 0.0333 | ND | 47.3 | 30-120 | | |
| Benzo (k) fluoranthene | 0.0179 | 0.00500 | " | 0.0333 | ND | 53.8 | 30-120 | | |
| Chrysene | 0.0141 | 0.00500 | " | 0.0333 | 0.000583 | 40.5 | 30-120 | | |
| Dibenz (a,h) anthracene | 0.0155 | 0.00500 | " | 0.0333 | ND | 46.5 | 30-120 | | |
| Fluoranthene | 0.0200 | 0.00500 | " | 0.0333 | ND | 59.9 | 30-120 | | |
| Fluorene | 0.0200 | 0.00500 | " | 0.0333 | ND | 60.0 | 30-120 | | |
| Indeno (1,2,3-cd) pyrene | 0.0171 | 0.00500 | " | 0.0333 | ND | 51.2 | 30-120 | | |
| Pyrene | 0.0151 | 0.00500 | " | 0.0333 | ND | 45.3 | 35-142 | | |
| 1-Methylnaphthalene | 0.0149 | 0.00500 | " | 0.0333 | ND | 44.8 | 15-130 | | |
| 2-Methylnaphthalene | 0.0219 | 0.00500 | " | 0.0333 | ND | 65.7 | 15-130 | | |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0298 | | " | 0.0333 | | 89.5 | 40-150 | | |
| Surrogate: Fluoranthene-d10 | 0.0367 | | " | 0.0333 | | 110 | 40-150 | | |

Matrix Spike Dup (BGD0359-MSD1)

Source: 2304142-01

Prepared: 04/12/23 Analyzed: 04/13/23

| | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|----------|------|--------|-------|----|
| Acenaphthene | 0.0220 | 0.00500 | mg/kg | 0.0333 | ND | 66.0 | 31-137 | 0.594 | 30 |
| Anthracene | 0.0189 | 0.00500 | " | 0.0333 | ND | 56.8 | 30-120 | 0.910 | 30 |
| Benzo (a) anthracene | 0.0165 | 0.00500 | " | 0.0333 | 0.00103 | 46.3 | 30-120 | 3.89 | 30 |
| Benzo (a) pyrene | 0.0151 | 0.00500 | " | 0.0333 | ND | 45.3 | 30-120 | 9.93 | 30 |
| Benzo (b) fluoranthene | 0.0178 | 0.00500 | " | 0.0333 | ND | 53.5 | 30-120 | 12.2 | 30 |
| Benzo (k) fluoranthene | 0.0153 | 0.00500 | " | 0.0333 | ND | 45.9 | 30-120 | 15.7 | 30 |
| Chrysene | 0.0134 | 0.00500 | " | 0.0333 | 0.000583 | 38.5 | 30-120 | 4.80 | 30 |
| Dibenz (a,h) anthracene | 0.0138 | 0.00500 | " | 0.0333 | ND | 41.4 | 30-120 | 11.7 | 30 |
| Fluoranthene | 0.0199 | 0.00500 | " | 0.0333 | ND | 59.6 | 30-120 | 0.458 | 30 |
| Fluorene | 0.0199 | 0.00500 | " | 0.0333 | ND | 59.6 | 30-120 | 0.747 | 30 |
| Indeno (1,2,3-cd) pyrene | 0.0140 | 0.00500 | " | 0.0333 | ND | 42.1 | 30-120 | 19.7 | 30 |
| Pyrene | 0.0164 | 0.00500 | " | 0.0333 | ND | 49.2 | 35-142 | 8.16 | 30 |
| 1-Methylnaphthalene | 0.0168 | 0.00500 | " | 0.0333 | ND | 50.5 | 15-130 | 12.1 | 50 |
| 2-Methylnaphthalene | 0.0211 | 0.00500 | " | 0.0333 | ND | 63.3 | 15-130 | 3.74 | 50 |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0178 | | " | 0.0333 | | 53.4 | 40-150 | | |
| Surrogate: Fluoranthene-d10 | 0.0267 | | " | 0.0333 | | 80.1 | 40-150 | | |

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/19/23 12:36

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 BGD0367 - EPA 3050B

Blank (BGD0367-BLK1)

Prepared: 04/12/23 Analyzed: 04/18/23

Boron ND 0.0100 mg/L

LCS (BGD0367-BS1)

Prepared: 04/12/23 Analyzed: 04/18/23

Boron 4.82 0.0100 mg/L 5.00 96.4 80-120

Duplicate (BGD0367-DUP1)

Source: 2304202-01

Prepared: 04/12/23 Analyzed: 04/18/23

Boron 0.871 0.0100 mg/L 0.860 1.29 20

Matrix Spike (BGD0367-MS1)

Source: 2304202-01

Prepared: 04/12/23 Analyzed: 04/18/23

Boron 4.75 0.0100 mg/L 5.00 0.860 77.8 75-125

Matrix Spike Dup (BGD0367-MSD1)

Source: 2304202-01

Prepared: 04/12/23 Analyzed: 04/18/23

Boron 4.68 0.0100 mg/L 5.00 0.860 76.3 75-125 1.53 25

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/19/23 12:36

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGD0362 - EPA 3050B

Blank (BGD0362-BLK1)

Prepared: 04/12/23 Analyzed: 04/18/23

| | | | | | | | | | |
|----------|----|--------|-----------|--|--|--|--|--|--|
| Arsenic | ND | 0.200 | mg/kg wet | | | | | | |
| Barium | ND | 0.400 | " | | | | | | |
| Cadmium | ND | 0.200 | " | | | | | | |
| Copper | ND | 0.400 | " | | | | | | |
| Lead | ND | 0.200 | " | | | | | | |
| Nickel | ND | 0.400 | " | | | | | | |
| Selenium | ND | 0.260 | " | | | | | | |
| Silver | ND | 0.0200 | " | | | | | | |
| Zinc | ND | 0.400 | " | | | | | | |

LCS (BGD0362-BS1)

Prepared: 04/12/23 Analyzed: 04/18/23

| | | | | | | |
|----------|------|--------|-----------|------|------|--------|
| Arsenic | 36.8 | 0.200 | mg/kg wet | 40.0 | 92.1 | 80-120 |
| Barium | 38.9 | 0.400 | " | 40.0 | 97.2 | 80-120 |
| Cadmium | 1.95 | 0.200 | " | 2.00 | 97.7 | 80-120 |
| Copper | 43.3 | 0.400 | " | 40.0 | 108 | 80-120 |
| Lead | 20.6 | 0.200 | " | 20.0 | 103 | 80-120 |
| Nickel | 41.3 | 0.400 | " | 40.0 | 103 | 80-120 |
| Selenium | 4.63 | 0.260 | " | 4.00 | 116 | 80-120 |
| Silver | 1.95 | 0.0200 | " | 2.00 | 97.7 | 80-120 |
| Zinc | 41.0 | 0.400 | " | 40.0 | 103 | 80-120 |

Duplicate (BGD0362-DUP1)

Source: 2304202-01

Prepared: 04/12/23 Analyzed: 04/18/23

| | | | | | | |
|----------|--------|--------|-----------|--------|------|----|
| Arsenic | 4.04 | 0.253 | mg/kg dry | 3.61 | 11.2 | 20 |
| Barium | 150 | 0.505 | " | 146 | 3.26 | 20 |
| Cadmium | 0.443 | 0.253 | " | 0.400 | 10.3 | 20 |
| Copper | 9.61 | 0.505 | " | 9.01 | 6.39 | 20 |
| Lead | 14.2 | 0.253 | " | 12.6 | 12.1 | 20 |
| Nickel | 7.04 | 0.505 | " | 6.53 | 7.60 | 20 |
| Selenium | 0.212 | 0.260 | " | 0.210 | 1.20 | 20 |
| Silver | 0.0712 | 0.0253 | " | 0.0662 | 7.35 | 20 |
| Zinc | 29.6 | 0.505 | " | 28.0 | 5.88 | 20 |

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/19/23 12:36

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 BGD0362 - EPA 3050B

Matrix Spike (BGD0362-MS1)

Source: 2304202-01

Prepared: 04/12/23 Analyzed: 04/18/23

| | | | | | | | | | | |
|----------|------|--------|-----------|------|--------|------|--------|--|--|-------|
| Arsenic | 48.1 | 0.253 | mg/kg dry | 50.5 | 3.61 | 88.0 | 75-125 | | | |
| Barium | 205 | 0.505 | " | 50.5 | 146 | 117 | 75-125 | | | |
| Cadmium | 2.89 | 0.253 | " | 2.53 | 0.400 | 98.6 | 75-125 | | | |
| Copper | 30.6 | 0.505 | " | 50.5 | 9.01 | 42.8 | 75-125 | | | QM-05 |
| Lead | 37.3 | 0.253 | " | 25.3 | 12.6 | 97.8 | 75-125 | | | |
| Nickel | 27.4 | 0.505 | " | 50.5 | 6.53 | 41.4 | 75-125 | | | QM-05 |
| Selenium | 5.49 | 0.260 | " | 5.05 | 0.210 | 104 | 75-125 | | | |
| Silver | 2.41 | 0.0253 | " | 2.53 | 0.0662 | 93.0 | 75-125 | | | |
| Zinc | 51.5 | 0.505 | " | 50.5 | 28.0 | 46.6 | 75-125 | | | QM-05 |

Matrix Spike Dup (BGD0362-MSD1)

Source: 2304202-01

Prepared: 04/12/23 Analyzed: 04/18/23

| | | | | | | | | | | |
|----------|------|--------|-----------|------|--------|------|--------|--------|----|-------|
| Arsenic | 48.9 | 0.253 | mg/kg dry | 50.5 | 3.61 | 89.8 | 75-125 | 1.84 | 25 | |
| Barium | 204 | 0.505 | " | 50.5 | 146 | 117 | 75-125 | 0.106 | 25 | |
| Cadmium | 2.91 | 0.253 | " | 2.53 | 0.400 | 99.4 | 75-125 | 0.714 | 25 | |
| Copper | 30.7 | 0.505 | " | 50.5 | 9.01 | 42.8 | 75-125 | 0.127 | 25 | QM-05 |
| Lead | 38.0 | 0.253 | " | 25.3 | 12.6 | 101 | 75-125 | 1.94 | 25 | |
| Nickel | 27.6 | 0.505 | " | 50.5 | 6.53 | 41.8 | 75-125 | 0.700 | 25 | QM-05 |
| Selenium | 5.62 | 0.260 | " | 5.05 | 0.210 | 107 | 75-125 | 2.34 | 25 | |
| Silver | 2.44 | 0.0253 | " | 2.53 | 0.0662 | 94.1 | 75-125 | 1.19 | 25 | |
| Zinc | 51.5 | 0.505 | " | 50.5 | 28.0 | 46.7 | 75-125 | 0.0814 | 25 | QM-05 |

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/19/23 12:36

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGD0383 - 3060A Mod

Blank (BGD0383-BLK1)

Prepared & Analyzed: 04/12/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGD0383-BS1)

Prepared & Analyzed: 04/12/23

Chromium, Hexavalent 21.2 0.30 mg/kg wet 25.0 84.8 80-120

Duplicate (BGD0383-DUP1)

Source: 2304202-03

Prepared & Analyzed: 04/12/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGD0383-MS1)

Source: 2304202-03

Prepared & Analyzed: 04/12/23

Chromium, Hexavalent 21.0 0.30 mg/kg dry 26.5 ND 79.2 75-125

Matrix Spike Dup (BGD0383-MSD1)

Source: 2304202-03

Prepared & Analyzed: 04/12/23

Chromium, Hexavalent 20.2 0.30 mg/kg dry 26.5 ND 76.2 75-125 3.86 20

Summit Scientific

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

Project: Noble - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/19/23 12:36

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 BGD0351 - General Preparation

Blank (BGD0351-BLK1)

Prepared: 04/12/23 Analyzed: 04/17/23

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

LCS (BGD0351-BS1)

Prepared: 04/12/23 Analyzed: 04/17/23

| | | | | | | | | | | |
|-----------|------|--------|----------|------|--|------|--------|--|--|--|
| Calcium | 5.22 | 0.0500 | mg/L wet | 5.00 | | 104 | 70-130 | | | |
| Magnesium | 4.59 | 0.0500 | " | 5.00 | | 91.8 | 70-130 | | | |
| Sodium | 4.60 | 0.0500 | " | 5.00 | | 92.1 | 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 - SLW Ranch B12-65-1HN Project Number: [none] Project Manager: Jacob Whritenour | Reported: 04/19/23 12:36 |
|--|--|------------------------------------|

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 BGD0365 - General Preparation

| | | | | | | | | | | | |
|---------------------------------|------|---------------------------|---|--|--|--|--|--------|--|----|--|
| Duplicate (BGD0365-DUP1) | | Source: 2304194-01 | | | Prepared & Analyzed: 04/12/23 | | | | | | |
| % Solids | 90.1 | | % | | 90.0 | | | 0.0549 | | 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 - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/19/23 12:36

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 BGD0386 - General Preparation

Blank (BGD0386-BLK1)

Prepared & Analyzed: 04/12/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGD0386-BS1)

Prepared & Analyzed: 04/12/23

Specific Conductance (EC) 0.150 0.0100 mmhos/cm 0.150 100 95-105

Duplicate (BGD0386-DUP1)

Source: 2304202-01

Prepared & Analyzed: 04/12/23

Specific Conductance (EC) 1.01 0.0100 mmhos/cm 1.01 0.792 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 - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/19/23 12:36

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 BGD0385 - General Preparation

LCS (BGD0385-BS1)

Prepared & Analyzed: 04/12/23

| | | | | | |
|----|------|----------|------|------|--------|
| pH | 9.05 | pH Units | 9.18 | 98.6 | 95-105 |
|----|------|----------|------|------|--------|

Duplicate (BGD0385-DUP1)

Source: 2304202-01

Prepared & Analyzed: 04/12/23

| | | | | | |
|----|------|----------|------|------|----|
| pH | 7.96 | pH Units | 7.78 | 2.29 | 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 - SLW Ranch B12-65-1HN

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
04/19/23 12:36

Notes and Definitions

- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference