

TABLE 1
FIELD DATA SUMMARY TABLE
NOBLE 100322
MARKUS T5N-R65W-S28 L01, WELD COUNTY, COLORADO
REM # 30204

| Sample ID | Sample Date | Depth | GPS Data Latitude/Longitude | | PDOP Value | VOC Concentration (ppm) |
|-------------|-------------|--------|--------------------------------|--------------|------------|----------------------------|
| AST01@6.0" | 6/10/2024 | 0.5 Ft | 40.3648950 | -104.6696675 | 0.90 | 2.7 ppm |
| SEP01@5.0' | 6/10/2024 | 5.0 Ft | 40.3649242 | -104.6700187 | 0.90 | 596.7 ppm |
| PWVB01@5.0' | 6/10/2024 | 5.0 Ft | 40.3649029 | -104.6697134 | 0.90 | 93.5 ppm |
| PWVN01@4.0' | 6/10/2024 | 4.0 Ft | 40.3649225 | -104.6697162 | 0.90 | 20.4 ppm |

1. Global Positioning System (GPS) data is provided in decimal degrees using North American Datum (NAD) 83 UTMZone 13 North.

2. Volatile organic compound (VOC) concentrations are measured in the field using a photoionization detector (PID).

PDOP = Position Dilution of Precision

ppm = Parts per million

in. = Inches

ft. = Feet

bgs = Below ground surface

= Source material characterization sample, excavated and transported off site for disposal.

= Material excavated and transported off site for disposal.

TABLE 2
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE 100322
MARKUS T5N-R65W-S28 L01, WELD COUNTY, COLORADO
REM # 30204

| Sample ID | Sample Date | Depth (ft) | Benzene (mg/kg) | Toluene (mg/kg) | Ethyl-Benzene (mg/kg) | Xylenes (mg/kg) | 1,2,4-Trimethyl-Benzene (mg/kg) | 1,3,5-Trimethyl-Benzene (mg/kg) | Naphthalene (mg/kg) | TPH (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) |
|---|-------------|------------|-----------------|-----------------|-----------------------|-----------------|---------------------------------|---------------------------------|---------------------|-------------|-----------------|-----------------|-----------------|
| ECMC Table 915-1 Limits (Residential SSL) | | | 1.2 | 490 | 5.8 | 58 | 30 | 27 | 2 | 500 | 500** | | |
| ECMC Table 915-1 Limits (Protection of Groundwater SSL) | | | 0.0026 | 0.69 | 0.78 | 9.9 | 0.0081 | 0.0087 | 0.0038 | 500 | 500** | | |
| AST01@6.0" | 6/10/2024 | 0.5 Ft | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |
| SEP01@5.0' | 6/10/2024 | 5.0 Ft | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | 0.037 | <500 | 42 | 100 | <50 |
| PWVB01@5.0' | 6/10/2024 | 5.0 Ft | <0.0020 | <0.0050 | <0.0050 | 0.13 | 0.010 | 0.21 | <0.0038 | <500 | 27 | 72 | <50 |
| PWVN01@4.0' | 6/10/2024 | 4.0 Ft | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <500 | <0.50 | <50 | <50 |

1. Bold values exceed the ECMC Table 915-1 limit(s)
2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
3. * Indicates laboratory minimum detection limit in excess of SSL
4. ** Summation of GRO+DRO+ORO must be less than 500 mg/kg

NA - Not analyzed

= Source material characterization sample, excavated and transported off site for disposal.

= Material excavated and transported off site for disposal.

TABLE 3
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE 100322
MARKUS T5N-R65W-S28 L01, WELD COUNTY, COLORADO
REM # 30204

| Sample ID | Sample Date | Depth (ft) | Acenaphthene (mg/kg) | Anthracene (mg/kg) | Benzo (a) Anthracene (mg/kg) | Benzo (a) Pyrene (mg/kg) | Benzo (b) Fluoranthene (mg/kg) | Benzo (k) Fluoranthene (mg/kg) | Chrysene (mg/kg) | Dibenzo (a,h) Anthracene (mg/kg) | Fluoranthene (mg/kg) | Fluorene (mg/kg) | Indeno (1,2,3-cd) Pyrene (mg/kg) | Pyrene (mg/kg) | 1-Methyl - Naphthalene (mg/kg) | 2-Methyl- Naphthalene (mg/kg) |
|---|-------------|------------|----------------------|--------------------|------------------------------|--------------------------|--------------------------------|--------------------------------|------------------|----------------------------------|----------------------|------------------|----------------------------------|----------------|--------------------------------|-------------------------------|
| ECMC Table 915-1 Limits (Residential SSL) | | | 360 | 1800 | 1.1 | 0.11 | 1.1 | 11 | 110 | 0.11 | 240 | 240 | 1.1 | 180 | 18 | 24 |
| ECMC Table 915-1 Limits (Protection of Groundwater SSL) | | | 0.55 | 5.8 | 0.011 | 0.24 | 0.3 | 2.9 | 9 | 0.096 | 8.9 | 0.54 | 0.98 | 1.3 | 0.006 | 0.019 |
| AST01@6.0" | 6/10/2024 | 0.5 Ft | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 |
| SEP01@5.0' | 6/10/2024 | 5.0 Ft | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | 0.127 | <0.00500 | <0.00500 | 0.0628 | 0.147 |
| PWVB01@5.0' | 6/10/2024 | 5.0 Ft | <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 |
| PWVN01@4.0' | 6/10/2024 | 4.0 Ft | <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 |

1. Bold values exceed the ECMC Table 915-1 limit(s)

2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)

3. * Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

= Source material characterization sample, excavated and transported off site for disposal.

= Material excavated and transported off site for disposal.

TABLE 4
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE 100322
MARKUS T5N-R65W-S28 L01, WELD COUNTY, COLORADO
REM # 30204

| Sample ID | Sample Date | Depth (ft) | pH (Standard Units) | EC (mmhos/cm) | SAR (Standard Units) | Boron (mg/L) |
|--|-------------|------------|---------------------------|------------------|----------------------------|-----------------|
| ECMC Table 915-1 Soil Suitability Limits | | | 6 - 8.3 | <4 | <6 | 2 |
| AST01@6.0" | 6/10/2024 | 0.5 Ft | 7.71 | 0.192 | 0.568 | <2.00 |
| SEP01@5.0' | 6/10/2024 | 5.0 Ft | 7.54 | 0.266 | 0.931 | <2.00 |
| PWVB01@5.0' | 6/10/2024 | 5.0 Ft | 8.87 | 0.164 | 0.363 | <2.00 |
| PWVN01@4.0' | 6/10/2024 | 4.0 Ft | 7.76 | 0.124 | 0.343 | <2.00 |
| BKG01@6.0" | 6/11/2024 | 0.5 Ft | 9.11 | 2.14 | 9.65 | <2.00 |
| BKG01@4.0' | 6/11/2024 | 4.0 Ft | 8.12 | 0.573 | 2.01 | <2.00 |
| BKG01@5.0' | 6/11/2024 | 5.0 Ft | 8.26 | 0.364 | 1.72 | <2.00 |
| BKG02@6.0" | 6/11/2024 | 0.5 Ft | 8.41 | 0.656 | 0.996 | 2.62 |
| BKG02@4.0' | 6/11/2024 | 4.0 Ft | 8.33 | 1.01 | 5.57 | <2.00 |
| BKG02@5.0' | 6/11/2024 | 5.0 Ft | 8.70 | 0.309 | 1.23 | <2.00 |
| BKG03@6.0" | 6/11/2024 | 0.5 Ft | 8.38 | 1.25 | 3.51 | <0.0198 |
| BKG03@4.0' | 6/11/2024 | 4.0 Ft | 8.25 | 0.789 | 2.86 | <2.00 |
| BKG03@5.0' | 6/11/2024 | 5.0 Ft | 8.04 | 0.466 | 2.22 | <2.00 |
| BKG04@6.0" | 6/11/2024 | 0.5 Ft | 8.37 | 0.875 | 4.12 | <2.00 |
| BKG04@4.0' | 6/11/2024 | 4.0 Ft | 7.92 | 0.289 | 0.709 | <2.00 |
| BKG04@5.0' | 6/11/2024 | 5.0 Ft | 8.22 | 0.293 | 1.04 | <2.00 |
| BKG05@6.0" | 6/11/2024 | 0.5 Ft | 8.52 | 0.546 | 2.03 | <2.00 |
| BKG05@4.0' | 6/11/2024 | 4.0 Ft | 8.38 | 0.343 | 1.60 | <2.00 |
| BKG05@5.0' | 6/11/2024 | 5.0 Ft | 8.23 | 0.614 | 1.88 | <2.00 |
| Maximum Root Background Concentration (0 - 3 ft) | | | 9.11 | 2.14 | 9.65 | 2.62 |
| Average Root Background Concentration (0 - 3 ft) | | | 8.56 | 1.09 | 4.06 | <2.00 |
| Maximum Background Concentration | | | 9.11 | 2.14 | 9.65 | 2.62 |

| Sample ID | Sample Date | Depth (ft) | pH (Standard Units) | EC (mmhos/cm) | SAR (Standard Units) | Boron (mg/L) |
|--|-------------|------------|---------------------------|------------------|----------------------------|-----------------|
| ECMC Table 915-1 Soil Suitability Limits | | | 6 - 8.3 | <4 | <6 | 2 |
| Average Background Concentration | | | 8.35 | 0.701 | 2.74 | <2.00 |

1. Bold faced values exceed the ECMC Table 915-1 limit(s)

2. Blue highlighted soil analytical values indicate a regulatory exceedance

NA - Not analyzed

 = Source material characterization sample, excavated and transported off site for disposal.

 = Material excavated and transported off site for disposal.

TABLE 5
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE 100322
MARKUS T5N-R65W-S28 L01, WELD COUNTY, COLORADO
REM # 30204

| Sample ID | Sample Date | Depth (ft) | Arsenic (mg/kg) | Barium (mg/kg) | Cadmium (mg/kg) | Chromium (VI) (mg/kg) | Copper (mg/kg) | Lead (mg/kg) | Nickel (mg/kg) | Selenium (mg/kg) | Silver (mg/kg) | Zinc (mg/kg) |
|--|-------------|------------|-----------------|----------------|-----------------|-----------------------|----------------|--------------|----------------|------------------|----------------|--------------|
| ECMC Table 915-1 Limits (Residential SSL) | | | 0.68 | 15000 | 71 | 0.3 | 3100 | 400 | 1500 | 390 | 390 | 23000 |
| ECMC Table 915-1 Limits (Protection of Groundwater SSL) | | | 0.29 | 82 | 0.38 | 0.00067 | 46 | 14 | 26 | 0.26 | 0.8 | 370 |
| AST01@6.0" | 6/10/2024 | 0.5 Ft | 1.03 | 55.6 | 0.228 | <0.30 | 7.25 | 13.4 | 2.33 | <0.260 | 0.134 | 30.9 |
| SEP01@5.0' | 6/10/2024 | 5.0 Ft | 1.54 | 87.7 | 0.219 | <0.30 | 5.03 | 6.07 | 4.34 | <0.260 | 0.0364 | 22.6 |
| PWVB01@5.0' | 6/10/2024 | 5.0 Ft | 0.927 | 29.6 | <0.200 | <0.30 | 3.90 | 5.23 | 1.91 | <0.260 | 0.0284 | 12.7 |
| PWVN01@4.0' | 6/10/2024 | 4.0 Ft | 0.895 | 24.7 | <0.200 | <0.30 | 2.70 | 4.99 | 1.50 | <0.260 | <0.0200 | 10.6 |
| BKG01@6.0" | 6/11/2024 | 0.5 Ft | 1.72 | 35.4 | <0.200 | <0.30 | 3.38 | 7.02 | 1.95 | <0.260 | 0.0213 | 16.0 |
| BKG01@4.0' | 6/11/2024 | 4.0 Ft | 0.779 | 41.3 | <0.200 | <0.30 | 2.85 | 2.50 | 2.13 | <0.260 | <0.0200 | 12.7 |
| BKG01@5.0' | 6/11/2024 | 5.0 Ft | 0.824 | 31.0 | <0.200 | <0.30 | 3.82 | 2.62 | 2.04 | <0.260 | <0.0200 | 12.0 |
| BKG02@6.0" | 6/11/2024 | 0.5 Ft | 1.72 | 92.5 | 0.491 | <0.30 | 9.73 | 17.0 | 3.56 | 0.392 | 0.105 | 40.2 |
| BKG02@4.0' | 6/11/2024 | 4.0 Ft | 0.618 | 62.5 | <0.200 | <0.30 | 4.32 | 3.00 | 2.19 | 0.697 | 0.0215 | 10.1 |
| BKG02@5.0' | 6/11/2024 | 5.0 Ft | 0.205 | 19.5 | <0.179 | <0.30 | 1.54 | 1.63 | 0.678 | <0.232 | <0.0179 | 4.45 |
| BKG03@6.0" | 6/11/2024 | 0.5 Ft | 1.59 | 48.4 | <0.200 | <0.30 | 5.20 | 6.18 | 3.24 | <0.260 | 0.0248 | 20.0 |
| BKG03@4.0' | 6/11/2024 | 4.0 Ft | 2.90 | 73.4 | <0.200 | <0.30 | 4.56 | 6.17 | 4.13 | <0.260 | 0.0331 | 16.5 |
| BKG03@5.0' | 6/11/2024 | 5.0 Ft | 1.70 | 77.5 | <0.200 | <0.30 | 3.60 | 4.15 | 3.29 | <0.260 | 0.0262 | 14.5 |
| BKG04@6.0" | 6/11/2024 | 0.5 Ft | 3.16 | 62.2 | 0.385 | <0.30 | 5.80 | 12.5 | 3.12 | <0.234 | 0.175 | 25.0 |
| BKG04@4.0' | 6/11/2024 | 4.0 Ft | 0.816 | 66.6 | <0.200 | <0.30 | 3.00 | 3.84 | 2.66 | 1.61 | 0.0206 | 13.9 |
| BKG04@5.0' | 6/11/2024 | 5.0 Ft | 0.274 | 10.6 | <0.200 | <0.30 | 0.966 | 1.13 | 0.682 | 0.671 | <0.0200 | 3.93 |
| BKG05@6.0" | 6/11/2024 | 0.5 Ft | 3.69 | 102 | 0.335 | <0.30 | 5.53 | 7.47 | 4.76 | <0.260 | 0.0697 | 24.6 |
| BKG05@4.0' | 6/11/2024 | 4.0 Ft | 0.462 | 12.6 | <0.181 | <0.30 | 0.686 | 1.34 | 0.801 | <0.236 | <0.0181 | 4.11 |
| BKG05@5.0' | 6/11/2024 | 5.0 Ft | 1.32 | 64.3 | <0.200 | <0.30 | 3.68 | 5.66 | 2.10 | 1.35 | 0.0367 | 14.8 |
| Maximum Root Zone Background Concentration (0 - 3 ft) | | | 3.69 | 102 | 0.491 | <0.30 | 9.73 | 17.0 | 4.76 | 0.392 | 0.175 | 40.2 |
| 125% Average Root Zone Background Concentration (0 - 3 ft) | | | 2.97 | 85.1 | 0.402 | <0.30 | 7.41 | 12.5 | 4.16 | 0.351 | 0.0990 | 31.5 |
| Maximum Background Concentration | | | 3.69 | 102 | 0.491 | <0.30 | 9.73 | 17.0 | 4.76 | 1.61 | 0.175 | 40.2 |
| 125% Average Background Concentration | | | 1.81 | 66.7 | 0.297 | <0.30 | 4.89 | 6.85 | 3.11 | 0.603 | 0.0524 | 19.4 |

1. Bold values exceed the ECMC Table 915-1 limit(s)

2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)

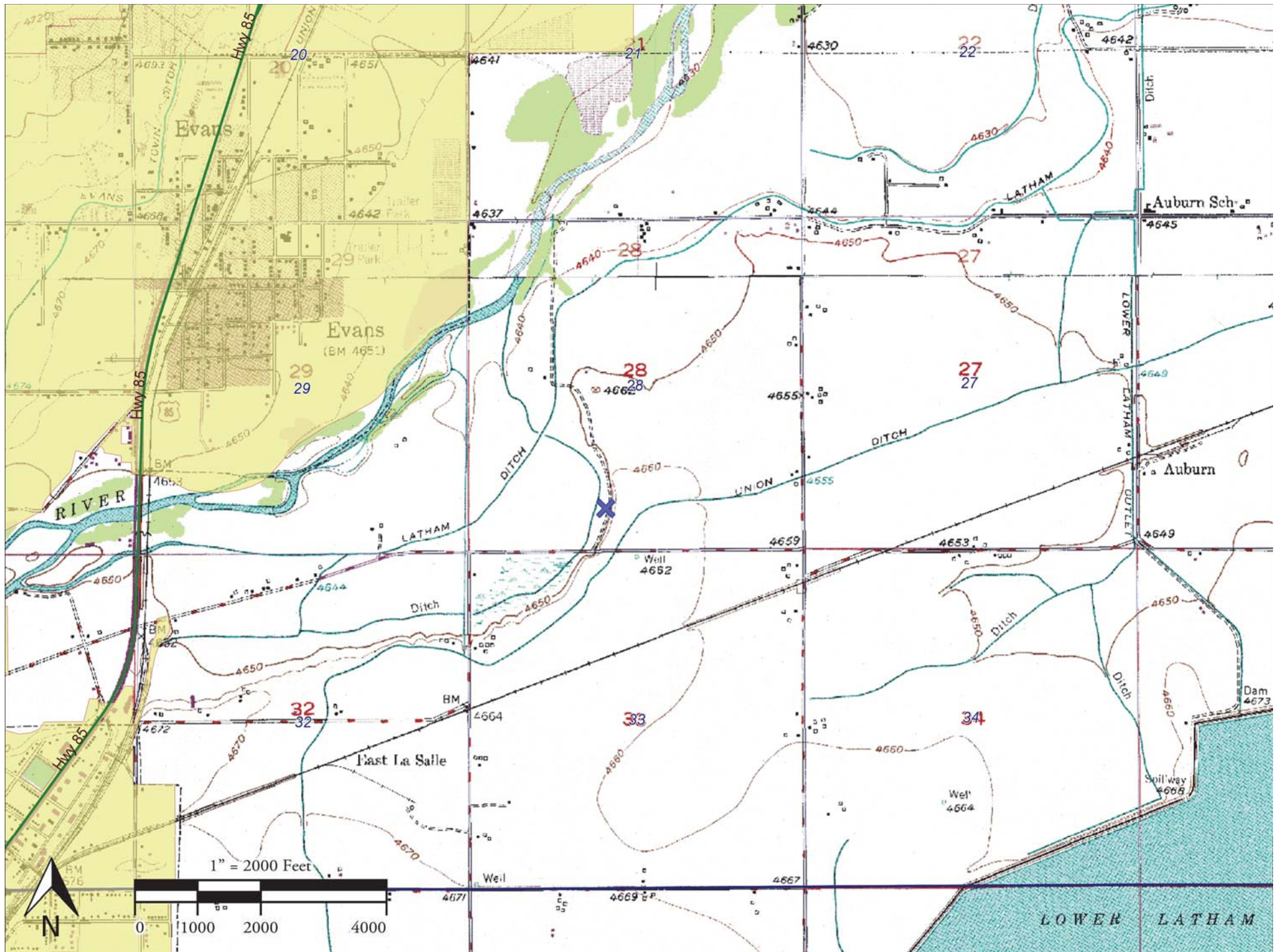
* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

= Source material characterization sample, excavated and transported off site for disposal.

= Material excavated and transported off site for disposal.

Markus T5N-R65W-S28 L01 (Facility) Topo Map



Markus T5N-R65W-S28 L01

Remediation #: 30204
Facility ID: 319279
Lat/Long: 40.364890, -104.670027
SESW Sec. 28, T5N, R65W
Fremont Proj. C024-129



Photo Log



Description:

#1A - Markus T5N-R65W-S28 L01 - Above Ground Storage Tank (Oil) - AST01@6.0" - No Impacts Noted - PID: 2.7ppm

Photo Log



Description:

#2A - Markus T5N-R65W-S28 L01 - Separator - SEP01@5.0' - Staining and Odor Present - PID: 596.7ppm

Photo Log



Description:

#3A - Markus T5N-R65W-S28 L01 - Floor of Produced Water Vault Excavation - PWVB01@5.0' - Odor Present - No Staining - PID: 93.5ppm

Photo Log



Description:

#3B - Markus T5N-R65W-S28 L01 - North Sidewall of PWV Excavation - PWVN01@4.0' - Light Odor Present - No Staining - PID: 20.4ppm

Photo Log



Description:

#3C - Markus T5N-R65W-S28 L01 - South Sidewall of PWV Excavation - PWVS01@4.0' - No Impacts Noted - PID: 0.7ppm



Description:

#3D - Markus T5N-R65W-S28 L01 - East Sidewall of PWV Excavation - PWVE01@4.0' - No Impacts Noted - PID: 0.7ppm

Photo Log



Description:

#3E - Markus T5N-R65W-S28 L01 - West Sidewall of PWV Excavation - PWVW01@4.0' - No Impacts Noted - PID: 1.2ppm

Photo Log



Description:

#4A - Markus T5N-R65W-S28 L01 - Dumpline - DL01@5.0' - No Impacts Noted - PID: 1.3ppm

Photo Log



Description:

#5A - Markus T5N-R65W-S28 L01 - Third Party Meter Shed - MET01@6.0" - No Impacts Noted - PID: 0.0ppm

Photo Log



Description:

#6A - Markus T5N-R65W-S28 L01 - Combustion Unit - ECD01@6.0" - No Impacts Noted - PID: 0.0ppm

Photo Log



Description:

#7A - Markus T5N-R65W-S28 L01 - 1st Local Background Sample Bore - BKG01 - Samples Collected at 0.5ft, 4.0ft and 5.0ft

Photo Log



Description:

#7B - Markus T5N-R65W-S28 L01 - 2nd Local Background Sample Bore - BKG02 - Samples Collected at 0.5ft, 4.0ft and 5.0ft

Photo Log



Description:

#7C - Markus T5N-R65W-S28 L01 - 3rd Local Background Sample Bore - BKG03 - Samples Collected at 0.5ft, 4.0ft and 5.0ft

Photo Log



Description:

#7D - Markus T5N-R65W-S28 L01 - 4th Local Background Sample Bore - BKG04 - Samples Collected at 0.5ft, 4.0ft and 5.0ft



Jun 11, 2024 12:02:31 PM

Description:

#7E - Markus T5N-R65W-S28 L01 - 5th Local Background Sample Bore - BKG05 - Samples Collected at 0.5ft, 4.0ft and 5.0ft

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 10, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

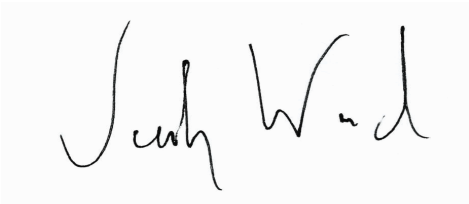
Wellington, CO 80549

RE: Noble - Markus T5N-R65W-S28 L01

Work Order #2406139

Enclosed are the results of analyses for samples received by Summit Scientific on 06/11/24 15:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN

Project Manager: Paul Henchan

Reported:
07/10/24 11:32

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-------------|---------------|--------|----------------|----------------|
| AST01@6.0' | 2406139-01 | Soil | 06/10/24 00:00 | 06/11/24 15:35 |
| SEP01@5.0' | 2406139-02 | Soil | 06/10/24 00:00 | 06/11/24 15:35 |
| PWVB01@5.0' | 2406139-03 | Soil | 06/10/24 00:00 | 06/11/24 15:35 |
| PWVN01@4.0' | 2406139-04 | Soil | 06/10/24 00:00 | 06/11/24 15:35 |

Case Narrative

Rerun analyses were performed by client request on 7/9/2024.
The rerun results included in this report are denoted with "RE#."

This is a revision of the report originally sent on 6/19/2024 at 14:42 MT.

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 <u>1</u> of <u>1</u> |
| 2406139 | |

| | | |
|----------------------------|--|--|
| Client: Fremont Env | Send Data To: Project Manager: Paul Henehan | Send Invoice To: Company: Noble |
| Address: | E-Mail: Paulh@fremontenv.com | Project Name/Location: |
| City/State/Zip: | JEFF@fremontenv.com Ethamb@fremontenv.com | AFE#: |
| Phone: | Project Name: Markus TSN-R65W-SAR LOI | PO/Billing Codes: UWRUE-A3314-ABN |
| Sampler Name: J6 | Project Number: | Contact: |

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative | | | | Matrix | | Air-Canister # | Analysis Requested | | | | | | Special Instructions |
|----|--------------------|--------------|--------------|-----------------|--------------|------|------|-------|--------|------|----------------|--------------------|--------|-----------|-------------|------------|--------------------|----------------------|
| | | | | | HCl | HNO3 | None | Other | Water | Soil | | Other | BTEX+N | TMS (915) | DRO,ORO,GRO | PAHs (915) | EC,PH,SAR, BOD5 | |
| 1 | ASTO1@6.0" | 6/10/24 | | 2 | | | X | | | | | X | X | X | X | X | X | |
| 2 | SEPO1@5.0' | | | | | | | | | | | | | | | | | |
| 3 | PWVBO1@5.0' | | | | | | | | | | | | | | | | | |
| 4 | PWVNO1@4.0' | | | | | | | | | | | X | X | X | X | X | X | |
| 5 | PWVSO1@4.0' | | | | | | | | | | | | | | | | | |
| 6 | PWVBO1@4.0' | | | | | | | | | | | | | | | | | |
| 7 | PWVWO1@4.0' | | | | | | | | | | | | | | | | | XXX |
| 8 | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | |

| | | | | | | |
|--|---------------------------------|--------------------------------|---------------------------------|-------------------|-------------|--------|
| Relinquished by:  | Date/Time: 6/11/24 15:35 | Received by: J. H. W. d | Date/Time: 6/11/24 15:35 | TAT Business Days | Field DO | Notes: |
| | | | | Same Day | 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: 25.1 | Corrected Temperature | IR gun #: | 2 | HNO3 lot #: | | |

S₂

Sample Receipt Checklist

S2 Work Order# 2406139

Client: Fremont Client Project ID: M75/h25 TSN-R6SW-S28 L01

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

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

Temp (°C) 25.1

Thermometer # 2

| | 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 type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| If custody seals are present, are they intact? ⁽¹⁾ | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Are samples due within 48 hours present? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾ | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <u>No Since f.m.s</u> |
| 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. | | | | |

Wh W. d
Custodian Printed Name

6/11/24 15:35
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
07/10/24 11:32

AST01@6.0"
2406139-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BHF0329 | 06/12/24 | 06/13/24 | EPA 8260B | |
| Toluene | ND | 0.0050 | | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | | " | " | " | " | " | " | |

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0410 | 103 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0387 | 96.8 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0381 | 95.2 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BHF0342 | 06/12/24 | 06/12/24 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: o-Terphenyl | 6.56 | 52.5 % | | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
07/10/24 11:32

AST01@6.0"
2406139-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BHF0321 | 06/12/24 | 06/12/24 | EPA 8270D SIM | |
| Anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Chrysene | ND | 0.00500 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluorene | ND | 0.00500 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| 1-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0235 | 70.6 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0230 | 69.1 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BHF0336 | 06/12/24 | 06/14/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **06/10/24 00:00**

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

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
07/10/24 11:32

AST01@6.0"
2406139-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|
| Arsenic | 1.03 | 0.200 | mg/kg dry | 1 | BHF0381 | 06/13/24 | 06/15/24 | EPA 6020B |
| Barium | 55.6 | 0.400 | " | " | " | " | " | " |
| Cadmium | 0.228 | 0.200 | " | " | " | " | " | " |
| Copper | 7.25 | 0.400 | " | " | " | " | " | " |
| Lead | 13.4 | 0.200 | " | " | " | " | " | " |
| Nickel | 2.33 | 0.400 | " | " | " | " | " | " |
| Silver | 0.134 | 0.0200 | " | " | " | " | " | " |
| Zinc | 30.9 | 0.400 | " | " | " | " | " | " |
| Selenium | ND | 0.260 | " | " | " | " | " | " |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHF0326 | 06/12/24 | 06/12/24 | EPA 7196A | |

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

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 107 | 0.0500 | mg/L dry | 1 | BHF0472 | 06/17/24 | 06/18/24 | EPA 6020B | |
| Magnesium | 1.64 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 21.6 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.568 | 0.00100 | units | 1 | BHF0558 | 06/19/24 | 06/19/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/10/24 00:00**

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

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
 Project Manager: Paul Henchan

Reported:
 07/10/24 11:32

AST01@6.0"
2406139-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

| | | | | | | | |
|----------|------|---|---|---------|----------|----------|-------------|
| % Solids | 91.1 | % | 1 | BHF0322 | 06/12/24 | 06/14/24 | Calculation |
|----------|------|---|---|---------|----------|----------|-------------|

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/10/24 00:00**


| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.192 | 0.0100 | mmhos/cm | 1 | BHF0473 | 06/17/24 | 06/18/24 | EPA 120.1 | |

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

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 7.71 | | pH Units | 1 | BHF0474 | 06/17/24 | 06/18/24 | EPA 9045D | |

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
07/10/24 11:32

SEP01@5.0'
2406139-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | ND | 0.0020 | mg/kg | 1 | BHF0329 | 06/12/24 | 06/13/24 | EPA 8260B | |
| Toluene | ND | 0.0050 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | " | " | " | " | " | " | R-03 |
| Xylenes (total) | ND | 0.010 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Naphthalene | 0.037 | 0.0038 | " | " | " | " | " | " | |

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0370 | 92.4 % | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0381 | 95.2 % | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.154 | 384 % | 50-150 | | " | " | " | " | S-02 |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C28-C36 (ORO) | ND | 50 | mg/kg | 1 | BHF0342 | 06/12/24 | 06/12/24 | EPA 8015M | |

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 10.1 | 80.6 % | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Anthracene | ND | 0.00500 | mg/kg | 1 | BHF0321 | 06/12/24 | 06/12/24 | EPA 8270D SIM | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
07/10/24 11:32

SEP01@5.0'
2406139-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------|---------------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Benzo (a) anthracene | ND | 0.00500 | mg/kg | 1 | BHF0321 | 06/12/24 | 06/12/24 | EPA 8270D SIM | |
| 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 | 0.127 | 0.00500 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| 1-Methylnaphthalene | 0.0628 | 0.00500 | " | " | " | " | " | " | |

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|---------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.00702 | 21.1 % | 40-150 | | " | " | " | " | S-02 |
| Surrogate: Fluoranthene-d10 | 0.0224 | 67.2 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BHF0336 | 06/12/24 | 06/14/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------|---------------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 1.54 | 0.200 | mg/kg dry | 1 | BHF0381 | 06/13/24 | 06/15/24 | EPA 6020B | |
| Barium | 87.7 | 0.400 | " | " | " | " | " | " | |
| Cadmium | 0.219 | 0.200 | " | " | " | " | " | " | |
| Copper | 5.03 | 0.400 | " | " | " | " | " | " | |
| Lead | 6.07 | 0.200 | " | " | " | " | " | " | |
| Nickel | 4.34 | 0.400 | " | " | " | " | " | " | |
| Silver | 0.0364 | 0.0200 | " | " | " | " | " | " | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01
Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
07/10/24 11:32

SEP01@5.0'
2406139-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-------|-----------|----------|---------|----------|----------|-----------|-------|
| Zinc | 22.6 | 0.400 | mg/kg dry | 1 | BHF0381 | 06/13/24 | 06/15/24 | EPA 6020B | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHF0326 | 06/12/24 | 06/12/24 | EPA 7196A | |

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

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 22.2 | 0.0500 | mg/L dry | 1 | BHF0472 | 06/17/24 | 06/18/24 | EPA 6020B | |
| Magnesium | 6.31 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 19.3 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.931 | 0.00100 | units | 1 | BHF0558 | 06/19/24 | 06/19/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 83.4 | | % | 1 | BHF0322 | 06/12/24 | 06/14/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
 Project Manager: Paul Henchan

Reported:
 07/10/24 11:32

SEP01@5.0'
2406139-02 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/10/24 00:00**


| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Specific Conductance (EC) | 0.266 | 0.0100 | | mmhos/cm | 1 | BHF0473 | 06/17/24 | 06/18/24 | EPA 120.1 | |

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

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| pH | 7.54 | | | pH Units | 1 | BHF0474 | 06/17/24 | 06/18/24 | EPA 9045D | |

Summit Scientific



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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01
Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
07/10/24 11:32

SEP01@5.0'
2406139-02RE1 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

I-04, O-04, O-05

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|-----------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Gasoline Range Hydrocarbons | 42 | 0.50 | mg/kg | 1 | BHG0077 | 07/02/24 | 07/02/24 | EPA 8260B | |

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0335 | 83.8 % | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0761 | 190 % | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0636 | 159 % | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

O-05

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|------------|-----------------|-------|----------|---------|----------|----------|-----------|------------|
| C10-C28 (DRO) | 100 | 50 | mg/kg | 1 | BHG0078 | 07/02/24 | 07/03/24 | EPA 8015M | I-04, O-04 |

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|------------|
| Surrogate: o-Terphenyl | 9.68 | 77.4 % | 30-150 | | " | " | " | " | I-04, O-04 |

PAH by EPA Method 8270D SIM

I-04, O-04, O-05

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------|--------------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BHF0937 | 06/28/24 | 06/28/24 | EPA 8270D SIM | |
| 2-Methylnaphthalene | 0.147 | 0.00500 | " | " | " | " | " | " | |

Date Sampled: **06/10/24 00:00**

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

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
 Project Manager: Paul Henchan

Reported:
 07/10/24 11:32

SEP01@5.0'
2406139-02RE1 (Soil)


Summit Scientific

PAH by EPA Method 8270D SIM

I-04, O-04, O-05

| | | | | | | | | |
|------------------------------------|----------|--------|--------|---------|----------|----------|---------------|------|
| Surrogate: 2-Methylnaphthalene-d10 | -0.00182 | % | 40-150 | BHF0937 | 06/28/24 | 06/28/24 | EPA 8270D SIM | S-02 |
| Surrogate: Fluoranthene-d10 | 0.0196 | 58.9 % | 40-150 | " | " | " | " | |

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
07/10/24 11:32

PWVB01@5.0'
2406139-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | ND | 0.0020 | mg/kg | 1 | BHF0329 | 06/12/24 | 06/13/24 | EPA 8260B | |
| Toluene | ND | 0.0050 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Xylenes (total) | 0.13 | 0.010 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | 0.010 | 0.0050 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | 0.21 | 0.0050 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | 27 | 0.50 | " | " | " | " | " | " | |

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0371 | 92.8 % | 50-150 | | " | " | " | " | |
| <i>Surrogate: Toluene-d8</i> | 0.0390 | 97.5 % | 50-150 | | " | " | " | " | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0424 | 106 % | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|-----------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | 72 | 50 | mg/kg | 1 | BHF0342 | 06/12/24 | 06/12/24 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| <i>Surrogate: o-Terphenyl</i> | 8.94 | 71.5 % | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
07/10/24 11:32

PWVB01@5.0'
2406139-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BHF0321 | 06/12/24 | 06/12/24 | 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 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Pyrene | ND | 0.00500 | " | " | " | " | " | " | |

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0209 | 62.8 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0224 | 67.3 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BHF0336 | 06/12/24 | 06/14/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|-------------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Barium | 29.6 | 0.400 | mg/kg dry | 1 | BHF0381 | 06/13/24 | 06/15/24 | EPA 6020B | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 3.90 | 0.400 | " | " | " | " | " | " | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
07/10/24 11:32

PWVB01@5.0'
2406139-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Lead | 5.23 | 0.200 | mg/kg dry | 1 | BHF0381 | 06/13/24 | 06/15/24 | EPA 6020B | |
| Nickel | 1.91 | 0.400 | " | " | " | " | " | " | |
| Silver | 0.0284 | 0.0200 | " | " | " | " | " | " | |
| Zinc | 12.7 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHF0326 | 06/12/24 | 06/12/24 | EPA 7196A | |

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

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 84.0 | 0.0500 | mg/L dry | 1 | BHF0472 | 06/17/24 | 06/18/24 | EPA 6020B | |
| Magnesium | 2.68 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 12.4 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.363 | 0.00100 | units | 1 | BHF0558 | 06/19/24 | 06/19/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 90.2 | | % | 1 | BHF0322 | 06/12/24 | 06/14/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
 Project Manager: Paul Henchan

Reported:
 07/10/24 11:32

PWVB01@5.0'
2406139-03 (Soil)


Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Specific Conductance (EC) | 0.164 | 0.0100 | mmhos/cm | 1 | BHF0473 | 06/17/24 | 06/18/24 | EPA 120.1 | |

Summit Scientific



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Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
07/10/24 11:32

PWVB01@5.0'
2406139-03RE1 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

I-04, O-05

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Fluorene | ND | 0.00500 | mg/kg | 1 | BHF0938 | 06/28/24 | 06/28/24 | EPA 8270D SIM | |
| 1-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0140 | 42.1 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0265 | 79.4 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 0.927 | 0.200 | mg/kg dry | 1 | BHF0956 | 06/28/24 | 07/04/24 | EPA 6020B | |

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

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.87 | | pH Units | 1 | BHG0035 | 06/17/24 | 07/02/24 | EPA 9045D | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
07/10/24 11:32

PWVN01@4.0'
2406139-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BHF0329 | 06/12/24 | 06/13/24 | EPA 8260B | |
| Toluene | ND | 0.0050 | | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | | " | " | " | " | " | " | |

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0376 | 94.0 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0390 | 97.6 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0383 | 95.7 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BHF0342 | 06/12/24 | 06/17/24 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: o-Terphenyl | 8.17 | 65.4 % | | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
07/10/24 11:32

PWVN01@4.0'
2406139-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BHF0321 | 06/12/24 | 06/12/24 | EPA 8270D SIM | |
| Anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Chrysene | ND | 0.00500 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluorene | ND | 0.00500 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| 1-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0214 | 64.2 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0245 | 73.4 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BHF0336 | 06/12/24 | 06/14/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **06/10/24 00:00**

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

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
07/10/24 11:32

PWVN01@4.0'
2406139-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 0.895 | 0.200 | mg/kg dry | 1 | BHF0381 | 06/13/24 | 06/15/24 | EPA 6020B | |
| Barium | 24.7 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 2.70 | 0.400 | " | " | " | " | " | " | |
| Lead | 4.99 | 0.200 | " | " | " | " | " | " | |
| Nickel | 1.50 | 0.400 | " | " | " | " | " | " | |
| Silver | ND | 0.0200 | " | " | " | " | " | " | |
| Zinc | 10.6 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHF0326 | 06/12/24 | 06/12/24 | EPA 7196A | |

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

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 46.5 | 0.0500 | mg/L dry | 1 | BHF0472 | 06/17/24 | 06/18/24 | EPA 6020B | |
| Magnesium | 3.03 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 8.94 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.343 | 0.00100 | units | 1 | BHF0558 | 06/19/24 | 06/19/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
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 Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
 Project Manager: Paul Henchan

Reported:
 07/10/24 11:32

PWVN01@4.0'
2406139-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 95.3 | | % | 1 | BHF0322 | 06/12/24 | 06/14/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/10/24 00:00**

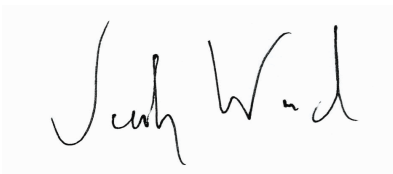
| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.124 | 0.0100 | mmhos/cm | 1 | BHF0473 | 06/17/24 | 06/18/24 | EPA 120.1 | |

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

Date Sampled: **06/10/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 7.76 | | pH Units | 1 | BHF0474 | 06/17/24 | 06/18/24 | EPA 9045D | |

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
07/10/24 11:32

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 BHF0329 - EPA 5030 Soil MS

Blank (BHF0329-BLK1)

Prepared & Analyzed: 06/12/24

| | | | | | | | | | | |
|---|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene | ND | 0.0020 | mg/kg | | | | | | | |
| Toluene | ND | 0.0050 | " | | | | | | | |
| Ethylbenzene | ND | 0.0050 | " | | | | | | | |
| Xylenes (total) | ND | 0.010 | " | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | " | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | " | | | | | | | |
| Naphthalene | ND | 0.0038 | " | | | | | | | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | | | | | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0396 | | " | 0.0400 | | 99.0 | 50-150 | | | |
| <i>Surrogate: Toluene-d8</i> | 0.0387 | | " | 0.0400 | | 96.7 | 50-150 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0372 | | " | 0.0400 | | 92.9 | 50-150 | | | |

LCS (BHF0329-BS1)

Prepared & Analyzed: 06/12/24

| | | | | | | | | | | |
|---|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene | 0.112 | 0.0020 | mg/kg | 0.100 | | 112 | 70-130 | | | |
| Toluene | 0.123 | 0.0050 | " | 0.100 | | 123 | 70-130 | | | |
| Ethylbenzene | 0.124 | 0.0050 | " | 0.100 | | 124 | 70-130 | | | |
| m,p-Xylene | 0.242 | 0.010 | " | 0.200 | | 121 | 70-130 | | | |
| o-Xylene | 0.123 | 0.0050 | " | 0.100 | | 123 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.120 | 0.0050 | " | 0.100 | | 120 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.122 | 0.0050 | " | 0.100 | | 122 | 70-130 | | | |
| Naphthalene | 0.111 | 0.0038 | " | 0.100 | | 111 | 70-130 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0378 | | " | 0.0400 | | 94.6 | 50-150 | | | |
| <i>Surrogate: Toluene-d8</i> | 0.0387 | | " | 0.0400 | | 96.8 | 50-150 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0386 | | " | 0.0400 | | 96.6 | 50-150 | | | |

Matrix Spike (BHF0329-MS1)

Source: 2406115-01

Prepared & Analyzed: 06/12/24

| | | | | | | | | | | |
|---|--------|--------|-------|--------|----|------|--------|--|--|--|
| Benzene | 0.106 | 0.0020 | mg/kg | 0.100 | ND | 106 | 70-130 | | | |
| Toluene | 0.116 | 0.0050 | " | 0.100 | ND | 116 | 70-130 | | | |
| Ethylbenzene | 0.118 | 0.0050 | " | 0.100 | ND | 118 | 70-130 | | | |
| m,p-Xylene | 0.228 | 0.010 | " | 0.200 | ND | 114 | 70-130 | | | |
| o-Xylene | 0.119 | 0.0050 | " | 0.100 | ND | 119 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.113 | 0.0050 | " | 0.100 | ND | 113 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.116 | 0.0050 | " | 0.100 | ND | 116 | 70-130 | | | |
| Naphthalene | 0.114 | 0.0038 | " | 0.100 | ND | 114 | 70-130 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0395 | | " | 0.0400 | | 98.7 | 50-150 | | | |
| <i>Surrogate: Toluene-d8</i> | 0.0384 | | " | 0.0400 | | 95.9 | 50-150 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0383 | | " | 0.0400 | | 95.8 | 50-150 | | | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
07/10/24 11:32

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 BHF0329 - EPA 5030 Soil MS

Matrix Spike Dup (BHF0329-MSD1)

Source: 2406115-01

Prepared & Analyzed: 06/12/24

| | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|----|------|--------|------|----|
| Benzene | 0.114 | 0.0020 | mg/kg | 0.100 | ND | 114 | 70-130 | 7.13 | 30 |
| Toluene | 0.125 | 0.0050 | " | 0.100 | ND | 125 | 70-130 | 7.12 | 30 |
| Ethylbenzene | 0.125 | 0.0050 | " | 0.100 | ND | 125 | 70-130 | 6.18 | 30 |
| m,p-Xylene | 0.237 | 0.010 | " | 0.200 | ND | 119 | 70-130 | 4.14 | 30 |
| o-Xylene | 0.125 | 0.0050 | " | 0.100 | ND | 125 | 70-130 | 4.93 | 30 |
| 1,2,4-Trimethylbenzene | 0.115 | 0.0050 | " | 0.100 | ND | 115 | 70-130 | 2.21 | 30 |
| 1,3,5-Trimethylbenzene | 0.121 | 0.0050 | " | 0.100 | ND | 121 | 70-130 | 4.63 | 30 |
| Naphthalene | 0.117 | 0.0038 | " | 0.100 | ND | 117 | 70-130 | 2.24 | 30 |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0392 | | " | 0.0400 | | 98.0 | 50-150 | | |
| Surrogate: Toluene-d8 | 0.0394 | | " | 0.0400 | | 98.6 | 50-150 | | |
| Surrogate: 4-Bromofluorobenzene | 0.0387 | | " | 0.0400 | | 96.8 | 50-150 | | |

Batch BHG0077 - EPA 5030 Soil MS

Blank (BHG0077-BLK1)

Prepared & Analyzed: 07/02/24

| | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|
| 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 | | 90.0 | 50-150 | | |
| Surrogate: Toluene-d8 | 0.0396 | | " | 0.0400 | | 98.9 | 50-150 | | |
| Surrogate: 4-Bromofluorobenzene | 0.0406 | | " | 0.0400 | | 102 | 50-150 | | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
07/10/24 11:32

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 BHG0077 - EPA 5030 Soil MS

LCS (BHG0077-BS1)

Prepared & Analyzed: 07/02/24

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene | 0.0877 | 0.0020 | mg/kg | 0.100 | | 87.7 | 70-130 | | | |
| Toluene | 0.0993 | 0.0050 | " | 0.100 | | 99.3 | 70-130 | | | |
| Ethylbenzene | 0.0959 | 0.0050 | " | 0.100 | | 95.9 | 70-130 | | | |
| m,p-Xylene | 0.189 | 0.010 | " | 0.200 | | 94.5 | 70-130 | | | |
| o-Xylene | 0.0921 | 0.0050 | " | 0.100 | | 92.1 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.0884 | 0.0050 | " | 0.100 | | 88.4 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.0892 | 0.0050 | " | 0.100 | | 89.2 | 70-130 | | | |
| Naphthalene | 0.0852 | 0.0038 | " | 0.100 | | 85.2 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0366 | | " | 0.0400 | | 91.6 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0423 | | " | 0.0400 | | 106 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0378 | | " | 0.0400 | | 94.5 | 50-150 | | | |

Matrix Spike (BHG0077-MS1)

Source: 2406462-01

Prepared & Analyzed: 07/02/24

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|----|------|--------|--|--|--|
| Benzene | 0.0960 | 0.0020 | mg/kg | 0.100 | ND | 96.0 | 70-130 | | | |
| Toluene | 0.106 | 0.0050 | " | 0.100 | ND | 106 | 70-130 | | | |
| Ethylbenzene | 0.107 | 0.0050 | " | 0.100 | ND | 107 | 70-130 | | | |
| m,p-Xylene | 0.212 | 0.010 | " | 0.200 | ND | 106 | 70-130 | | | |
| o-Xylene | 0.0998 | 0.0050 | " | 0.100 | ND | 99.8 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.0973 | 0.0050 | " | 0.100 | ND | 97.3 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.0982 | 0.0050 | " | 0.100 | ND | 98.2 | 70-130 | | | |
| Naphthalene | 0.0958 | 0.0038 | " | 0.100 | ND | 95.8 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0405 | | " | 0.0400 | | 101 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0422 | | " | 0.0400 | | 106 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0405 | | " | 0.0400 | | 101 | 50-150 | | | |

Matrix Spike Dup (BHG0077-MSD1)

Source: 2406462-01

Prepared & Analyzed: 07/02/24

| | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|----|------|--------|------|----|
| Benzene | 0.0936 | 0.0020 | mg/kg | 0.100 | ND | 93.6 | 70-130 | 2.56 | 30 |
| Toluene | 0.105 | 0.0050 | " | 0.100 | ND | 105 | 70-130 | 1.13 | 30 |
| Ethylbenzene | 0.102 | 0.0050 | " | 0.100 | ND | 102 | 70-130 | 5.26 | 30 |
| m,p-Xylene | 0.202 | 0.010 | " | 0.200 | ND | 101 | 70-130 | 4.48 | 30 |
| o-Xylene | 0.0985 | 0.0050 | " | 0.100 | ND | 98.5 | 70-130 | 1.36 | 30 |
| 1,2,4-Trimethylbenzene | 0.0929 | 0.0050 | " | 0.100 | ND | 92.9 | 70-130 | 4.67 | 30 |
| 1,3,5-Trimethylbenzene | 0.0935 | 0.0050 | " | 0.100 | ND | 93.5 | 70-130 | 4.88 | 30 |
| Naphthalene | 0.100 | 0.0038 | " | 0.100 | ND | 100 | 70-130 | 4.41 | 30 |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0412 | | " | 0.0400 | | 103 | 50-150 | | |
| Surrogate: Toluene-d8 | 0.0415 | | " | 0.0400 | | 104 | 50-150 | | |
| Surrogate: 4-Bromofluorobenzene | 0.0395 | | " | 0.0400 | | 98.8 | 50-150 | | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01
Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
07/10/24 11:32

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 BHF0342 - EPA 3550A

Blank (BHF0342-BLK1)

Prepared & Analyzed: 06/12/24

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|--|-----|--|--------|--|--|--|
| C10-C28 (DRO) | ND | 50 | mg/kg | | | | | | | | |
| C28-C36 (ORO) | ND | 50 | " | | | | | | | | |
| Surrogate: <i>o</i> -Terphenyl | 13.8 | | " | 12.5 | | 110 | | 30-150 | | | |

LCS (BHF0342-BS1)

Prepared & Analyzed: 06/12/24

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|--|------|--|--------|--|--|--|
| C10-C28 (DRO) | 448 | 50 | mg/kg | 500 | | 89.6 | | 70-130 | | | |
| Surrogate: <i>o</i> -Terphenyl | 13.3 | | " | 12.5 | | 106 | | 30-150 | | | |

Matrix Spike (BHF0342-MS1)

Source: 2406119-04

Prepared & Analyzed: 06/12/24

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|------|------|--|--------|--|--|--|
| C10-C28 (DRO) | 427 | 50 | mg/kg | 500 | 29.8 | 79.4 | | 70-130 | | | |
| Surrogate: <i>o</i> -Terphenyl | 12.4 | | " | 12.5 | | 99.1 | | 30-150 | | | |

Matrix Spike Dup (BHF0342-MSD1)

Source: 2406119-04

Prepared & Analyzed: 06/12/24

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|------|------|--|--------|------|----|--|
| C10-C28 (DRO) | 441 | 50 | mg/kg | 500 | 29.8 | 82.2 | | 70-130 | 3.23 | 20 | |
| Surrogate: <i>o</i> -Terphenyl | 12.2 | | " | 12.5 | | 98.0 | | 30-150 | | | |

Batch BHG0078 - EPA 3550A

Blank (BHG0078-BLK1)

Prepared: 07/02/24 Analyzed: 07/03/24

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|--|-----|--|--------|--|--|--|
| C10-C28 (DRO) | ND | 50 | mg/kg | | | | | | | | |
| C28-C36 (ORO) | ND | 50 | " | | | | | | | | |
| Surrogate: <i>o</i> -Terphenyl | 15.4 | | " | 12.5 | | 124 | | 30-150 | | | |

LCS (BHG0078-BS1)

Prepared: 07/02/24 Analyzed: 07/03/24

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|--|------|--|--------|--|--|--|
| C10-C28 (DRO) | 413 | 50 | mg/kg | 500 | | 82.6 | | 70-130 | | | |
| Surrogate: <i>o</i> -Terphenyl | 11.6 | | " | 12.5 | | 93.2 | | 30-150 | | | |

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
 Project Manager: Paul Henchan

Reported:
 07/10/24 11:32


Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHG0078 - EPA 3550A

| Matrix Spike (BHG0078-MS1) | | Source: 2406462-01 | | | Prepared: 07/02/24 Analyzed: 07/03/24 | |
|--|------|---------------------------|-------|------|---------------------------------------|---------------------|
| C10-C28 (DRO) | 396 | 50 | mg/kg | 500 | ND | 79.1 70-130 |
| Surrogate: o-Terphenyl | 9.62 | | " | 12.5 | | 77.0 30-150 |
| Matrix Spike Dup (BHG0078-MSD1) | | Source: 2406462-01 | | | Prepared: 07/02/24 Analyzed: 07/03/24 | |
| C10-C28 (DRO) | 441 | 50 | mg/kg | 500 | ND | 88.2 70-130 10.8 20 |
| Surrogate: o-Terphenyl | 9.92 | | " | 12.5 | | 79.3 30-150 |

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
07/10/24 11:32

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 BHF0321 - EPA 5030 Soil MS

Blank (BHF0321-BLK1)

Prepared & Analyzed: 06/12/24

| | | | | | | | | | | |
|---|--------|---------|-------|--------|--|------|--------|--|--|--|
| 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> | 0.0279 | | " | 0.0333 | | 83.6 | 40-150 | | | |
| <i>Surrogate: Fluoranthene-d10</i> | 0.0294 | | " | 0.0333 | | 88.1 | 40-150 | | | |

LCS (BHF0321-BS1)

Prepared & Analyzed: 06/12/24

| | | | | | | | | | | |
|---|--------|---------|-------|--------|--|------|--------|--|--|--|
| Acenaphthene | 0.0230 | 0.00500 | mg/kg | 0.0333 | | 69.1 | 31-137 | | | |
| Anthracene | 0.0232 | 0.00500 | " | 0.0333 | | 69.6 | 30-120 | | | |
| Benzo (a) anthracene | 0.0246 | 0.00500 | " | 0.0333 | | 73.8 | 30-120 | | | |
| Benzo (a) pyrene | 0.0208 | 0.00500 | " | 0.0333 | | 62.5 | 30-120 | | | |
| Benzo (b) fluoranthene | 0.0217 | 0.00500 | " | 0.0333 | | 65.1 | 30-120 | | | |
| Benzo (k) fluoranthene | 0.0227 | 0.00500 | " | 0.0333 | | 68.0 | 30-120 | | | |
| Chrysene | 0.0240 | 0.00500 | " | 0.0333 | | 71.9 | 30-120 | | | |
| Dibenz (a,h) anthracene | 0.0184 | 0.00500 | " | 0.0333 | | 55.2 | 30-120 | | | |
| Fluoranthene | 0.0234 | 0.00500 | " | 0.0333 | | 70.3 | 30-120 | | | |
| Fluorene | 0.0268 | 0.00500 | " | 0.0333 | | 80.4 | 30-120 | | | |
| Indeno (1,2,3-cd) pyrene | 0.0132 | 0.00500 | " | 0.0333 | | 39.5 | 30-120 | | | |
| Pyrene | 0.0272 | 0.00500 | " | 0.0333 | | 81.8 | 35-142 | | | |
| 1-Methylnaphthalene | 0.0265 | 0.00500 | " | 0.0333 | | 79.6 | 35-142 | | | |
| 2-Methylnaphthalene | 0.0275 | 0.00500 | " | 0.0333 | | 82.5 | 35-142 | | | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | 0.0269 | | " | 0.0333 | | 80.8 | 40-150 | | | |
| <i>Surrogate: Fluoranthene-d10</i> | 0.0250 | | " | 0.0333 | | 75.1 | 40-150 | | | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
07/10/24 11:32

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 BHF0321 - EPA 5030 Soil MS

| Matrix Spike (BHF0321-MS1) | Source: 2406139-01 | | | Prepared & Analyzed: 06/12/24 | | | | | | |
|---|---------------------------|---------|----------|--|----|-------------|---------------|--|--|--|
| Acenaphthene | 0.0291 | 0.00500 | mg/kg | 0.0333 | ND | 87.2 | 31-137 | | | |
| Anthracene | 0.0280 | 0.00500 | " | 0.0333 | ND | 84.0 | 30-120 | | | |
| Benzo (a) anthracene | 0.0326 | 0.00500 | " | 0.0333 | ND | 97.9 | 30-120 | | | |
| Benzo (a) pyrene | 0.0280 | 0.00500 | " | 0.0333 | ND | 84.1 | 30-120 | | | |
| Benzo (b) fluoranthene | 0.0264 | 0.00500 | " | 0.0333 | ND | 79.2 | 30-120 | | | |
| Benzo (k) fluoranthene | 0.0234 | 0.00500 | " | 0.0333 | ND | 70.3 | 30-120 | | | |
| Chrysene | 0.0318 | 0.00500 | " | 0.0333 | ND | 95.4 | 30-120 | | | |
| Dibenz (a,h) anthracene | 0.0260 | 0.00500 | " | 0.0333 | ND | 78.0 | 30-120 | | | |
| Fluoranthene | 0.0296 | 0.00500 | " | 0.0333 | ND | 88.9 | 30-120 | | | |
| Fluorene | 0.0284 | 0.00500 | " | 0.0333 | ND | 85.3 | 30-120 | | | |
| Indeno (1,2,3-cd) pyrene | 0.0323 | 0.00500 | " | 0.0333 | ND | 97.0 | 30-120 | | | |
| Pyrene | 0.0379 | 0.00500 | " | 0.0333 | ND | 114 | 35-142 | | | |
| 1-Methylnaphthalene | 0.0292 | 0.00500 | " | 0.0333 | ND | 87.5 | 15-130 | | | |
| 2-Methylnaphthalene | 0.0273 | 0.00500 | " | 0.0333 | ND | 82.0 | 15-130 | | | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0302</i> | | <i>"</i> | <i>0.0333</i> | | <i>90.5</i> | <i>40-150</i> | | | |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0288</i> | | <i>"</i> | <i>0.0333</i> | | <i>86.4</i> | <i>40-150</i> | | | |

| Matrix Spike Dup (BHF0321-MSD1) | Source: 2406139-01 | | | Prepared & Analyzed: 06/12/24 | | | | | | |
|---|---------------------------|---------|----------|--|----|-------------|---------------|------|----|--|
| Acenaphthene | 0.0232 | 0.00500 | mg/kg | 0.0333 | ND | 69.5 | 31-137 | 22.7 | 30 | |
| Anthracene | 0.0240 | 0.00500 | " | 0.0333 | ND | 72.1 | 30-120 | 15.2 | 30 | |
| Benzo (a) anthracene | 0.0254 | 0.00500 | " | 0.0333 | ND | 76.3 | 30-120 | 24.8 | 30 | |
| Benzo (a) pyrene | 0.0215 | 0.00500 | " | 0.0333 | ND | 64.5 | 30-120 | 26.3 | 30 | |
| Benzo (b) fluoranthene | 0.0213 | 0.00500 | " | 0.0333 | ND | 63.9 | 30-120 | 21.4 | 30 | |
| Benzo (k) fluoranthene | 0.0192 | 0.00500 | " | 0.0333 | ND | 57.5 | 30-120 | 20.0 | 30 | |
| Chrysene | 0.0239 | 0.00500 | " | 0.0333 | ND | 71.6 | 30-120 | 28.6 | 30 | |
| Dibenz (a,h) anthracene | 0.0232 | 0.00500 | " | 0.0333 | ND | 69.6 | 30-120 | 11.4 | 30 | |
| Fluoranthene | 0.0244 | 0.00500 | " | 0.0333 | ND | 73.2 | 30-120 | 19.4 | 30 | |
| Fluorene | 0.0241 | 0.00500 | " | 0.0333 | ND | 72.4 | 30-120 | 16.4 | 30 | |
| Indeno (1,2,3-cd) pyrene | 0.0276 | 0.00500 | " | 0.0333 | ND | 82.8 | 30-120 | 15.9 | 30 | |
| Pyrene | 0.0281 | 0.00500 | " | 0.0333 | ND | 84.3 | 35-142 | 29.6 | 30 | |
| 1-Methylnaphthalene | 0.0228 | 0.00500 | " | 0.0333 | ND | 68.4 | 15-130 | 24.5 | 50 | |
| 2-Methylnaphthalene | 0.0233 | 0.00500 | " | 0.0333 | ND | 69.9 | 15-130 | 16.0 | 50 | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0224</i> | | <i>"</i> | <i>0.0333</i> | | <i>67.1</i> | <i>40-150</i> | | | |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0257</i> | | <i>"</i> | <i>0.0333</i> | | <i>77.0</i> | <i>40-150</i> | | | |

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
07/10/24 11:32

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 BHF0937 - EPA 5030 Soil MS

Blank (BHF0937-BLK1)

Prepared & Analyzed: 06/28/24

| | | | | | | | | | | |
|---|--------|---------|-------|--------|--|------|--------|--|--|--|
| 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> | 0.0273 | | " | 0.0333 | | 81.8 | 40-150 | | | |
| <i>Surrogate: Fluoranthene-d10</i> | 0.0232 | | " | 0.0333 | | 69.5 | 40-150 | | | |

LCS (BHF0937-BS1)

Prepared & Analyzed: 06/28/24

| | | | | | | | | | | |
|---|--------|---------|-------|--------|--|------|--------|--|--|--|
| Acenaphthene | 0.0224 | 0.00500 | mg/kg | 0.0333 | | 67.1 | 31-137 | | | |
| Anthracene | 0.0215 | 0.00500 | " | 0.0333 | | 64.6 | 30-120 | | | |
| Benzo (a) anthracene | 0.0262 | 0.00500 | " | 0.0333 | | 78.7 | 30-120 | | | |
| Benzo (a) pyrene | 0.0232 | 0.00500 | " | 0.0333 | | 69.5 | 30-120 | | | |
| Benzo (b) fluoranthene | 0.0236 | 0.00500 | " | 0.0333 | | 70.9 | 30-120 | | | |
| Benzo (k) fluoranthene | 0.0242 | 0.00500 | " | 0.0333 | | 72.7 | 30-120 | | | |
| Chrysene | 0.0253 | 0.00500 | " | 0.0333 | | 75.9 | 30-120 | | | |
| Dibenz (a,h) anthracene | 0.0199 | 0.00500 | " | 0.0333 | | 59.7 | 30-120 | | | |
| Fluoranthene | 0.0224 | 0.00500 | " | 0.0333 | | 67.1 | 30-120 | | | |
| Fluorene | 0.0320 | 0.00500 | " | 0.0333 | | 96.0 | 30-120 | | | |
| Indeno (1,2,3-cd) pyrene | 0.0121 | 0.00500 | " | 0.0333 | | 36.2 | 30-120 | | | |
| Pyrene | 0.0264 | 0.00500 | " | 0.0333 | | 79.1 | 35-142 | | | |
| 1-Methylnaphthalene | 0.0219 | 0.00500 | " | 0.0333 | | 65.8 | 35-142 | | | |
| 2-Methylnaphthalene | 0.0230 | 0.00500 | " | 0.0333 | | 69.1 | 35-142 | | | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | 0.0210 | | " | 0.0333 | | 62.9 | 40-150 | | | |
| <i>Surrogate: Fluoranthene-d10</i> | 0.0232 | | " | 0.0333 | | 69.6 | 40-150 | | | |

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
07/10/24 11:32

PAH by EPA Method 8270D SIM - Quality Control

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

Batch BHF0937 - EPA 5030 Soil MS

| Matrix Spike (BHF0937-MS1) | Source: 2406445-01 | | | Prepared & Analyzed: 06/28/24 | | | | | | |
|---|---------------------------|---------|----------|--|----|-------------|---------------|--|--|--|
| Acenaphthene | 0.0212 | 0.00500 | mg/kg | 0.0333 | ND | 63.6 | 31-137 | | | |
| Anthracene | 0.0220 | 0.00500 | " | 0.0333 | ND | 66.0 | 30-120 | | | |
| Benzo (a) anthracene | 0.0252 | 0.00500 | " | 0.0333 | ND | 75.5 | 30-120 | | | |
| Benzo (a) pyrene | 0.0222 | 0.00500 | " | 0.0333 | ND | 66.7 | 30-120 | | | |
| Benzo (b) fluoranthene | 0.0211 | 0.00500 | " | 0.0333 | ND | 63.2 | 30-120 | | | |
| Benzo (k) fluoranthene | 0.0202 | 0.00500 | " | 0.0333 | ND | 60.7 | 30-120 | | | |
| Chrysene | 0.0240 | 0.00500 | " | 0.0333 | ND | 72.1 | 30-120 | | | |
| Dibenz (a,h) anthracene | 0.0244 | 0.00500 | " | 0.0333 | ND | 73.3 | 30-120 | | | |
| Fluoranthene | 0.0214 | 0.00500 | " | 0.0333 | ND | 64.2 | 30-120 | | | |
| Fluorene | 0.0259 | 0.00500 | " | 0.0333 | ND | 77.6 | 30-120 | | | |
| Indeno (1,2,3-cd) pyrene | 0.0167 | 0.00500 | " | 0.0333 | ND | 50.2 | 30-120 | | | |
| Pyrene | 0.0262 | 0.00500 | " | 0.0333 | ND | 78.5 | 35-142 | | | |
| 1-Methylnaphthalene | 0.0233 | 0.00500 | " | 0.0333 | ND | 69.8 | 15-130 | | | |
| 2-Methylnaphthalene | 0.0251 | 0.00500 | " | 0.0333 | ND | 75.2 | 15-130 | | | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0222</i> | | <i>"</i> | <i>0.0333</i> | | <i>66.6</i> | <i>40-150</i> | | | |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0218</i> | | <i>"</i> | <i>0.0333</i> | | <i>65.4</i> | <i>40-150</i> | | | |

| Matrix Spike Dup (BHF0937-MSD1) | Source: 2406445-01 | | | Prepared & Analyzed: 06/28/24 | | | | | | |
|---|---------------------------|---------|----------|--|----|-------------|---------------|-------|----|--|
| Acenaphthene | 0.0189 | 0.00500 | mg/kg | 0.0333 | ND | 56.8 | 31-137 | 11.3 | 30 | |
| Anthracene | 0.0201 | 0.00500 | " | 0.0333 | ND | 60.2 | 30-120 | 9.20 | 30 | |
| Benzo (a) anthracene | 0.0264 | 0.00500 | " | 0.0333 | ND | 79.3 | 30-120 | 4.85 | 30 | |
| Benzo (a) pyrene | 0.0236 | 0.00500 | " | 0.0333 | ND | 70.9 | 30-120 | 6.12 | 30 | |
| Benzo (b) fluoranthene | 0.0212 | 0.00500 | " | 0.0333 | ND | 63.6 | 30-120 | 0.598 | 30 | |
| Benzo (k) fluoranthene | 0.0181 | 0.00500 | " | 0.0333 | ND | 54.3 | 30-120 | 11.3 | 30 | |
| Chrysene | 0.0261 | 0.00500 | " | 0.0333 | ND | 78.3 | 30-120 | 8.31 | 30 | |
| Dibenz (a,h) anthracene | 0.0225 | 0.00500 | " | 0.0333 | ND | 67.6 | 30-120 | 8.12 | 30 | |
| Fluoranthene | 0.0197 | 0.00500 | " | 0.0333 | ND | 59.2 | 30-120 | 8.07 | 30 | |
| Fluorene | 0.0245 | 0.00500 | " | 0.0333 | ND | 73.6 | 30-120 | 5.26 | 30 | |
| Indeno (1,2,3-cd) pyrene | 0.0165 | 0.00500 | " | 0.0333 | ND | 49.6 | 30-120 | 1.29 | 30 | |
| Pyrene | 0.0331 | 0.00500 | " | 0.0333 | ND | 99.3 | 35-142 | 23.4 | 30 | |
| 1-Methylnaphthalene | 0.0186 | 0.00500 | " | 0.0333 | ND | 55.7 | 15-130 | 22.5 | 50 | |
| 2-Methylnaphthalene | 0.0166 | 0.00500 | " | 0.0333 | ND | 49.9 | 15-130 | 40.4 | 50 | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0184</i> | | <i>"</i> | <i>0.0333</i> | | <i>55.3</i> | <i>40-150</i> | | | |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0182</i> | | <i>"</i> | <i>0.0333</i> | | <i>54.7</i> | <i>40-150</i> | | | |

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
07/10/24 11:32

PAH by EPA Method 8270D SIM - Quality Control

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

Batch BHF0938 - EPA 5030 Soil MS

Blank (BHF0938-BLK1)

Prepared & Analyzed: 06/28/24

| | | | | | | | | | | | |
|---|---------------|---------|-------|---------------|--|-------------|--|---------------|--|--|--|
| Acenaphthene | ND | 0.00500 | mg/kg | | | | | | | | |
| Anthracene | ND | 0.00500 | " | | | | | | | | |
| Benzo (a) anthracene | ND | 0.00500 | " | | | | | | | | |
| Benzo (a) pyrene | ND | 0.00500 | " | | | | | | | | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | | | | | | | | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | | | | | | | | |
| Chrysene | ND | 0.00500 | " | | | | | | | | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | | | | | | | | |
| Fluoranthene | ND | 0.00500 | " | | | | | | | | |
| Fluorene | ND | 0.00500 | " | | | | | | | | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | | | | | | | | |
| Pyrene | ND | 0.00500 | " | | | | | | | | |
| 1-Methylnaphthalene | ND | 0.00500 | " | | | | | | | | |
| 2-Methylnaphthalene | ND | 0.00500 | " | | | | | | | | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0135</i> | | " | <i>0.0333</i> | | <i>40.4</i> | | <i>40-150</i> | | | |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0144</i> | | " | <i>0.0333</i> | | <i>43.2</i> | | <i>40-150</i> | | | |

LCS (BHF0938-BS1)

Prepared & Analyzed: 06/28/24

| | | | | | | |
|---|---------------|---------|-------|---------------|-------------|---------------|
| Acenaphthene | 0.0276 | 0.00500 | mg/kg | 0.0333 | 82.7 | 31-137 |
| Anthracene | 0.0243 | 0.00500 | " | 0.0333 | 73.0 | 30-120 |
| Benzo (a) anthracene | 0.0218 | 0.00500 | " | 0.0333 | 65.5 | 30-120 |
| Benzo (a) pyrene | 0.0141 | 0.00500 | " | 0.0333 | 42.2 | 30-120 |
| Benzo (b) fluoranthene | 0.0137 | 0.00500 | " | 0.0333 | 41.0 | 30-120 |
| Benzo (k) fluoranthene | 0.0139 | 0.00500 | " | 0.0333 | 41.8 | 30-120 |
| Chrysene | 0.0197 | 0.00500 | " | 0.0333 | 59.2 | 30-120 |
| Dibenz (a,h) anthracene | 0.0175 | 0.00500 | " | 0.0333 | 52.5 | 30-120 |
| Fluoranthene | 0.0262 | 0.00500 | " | 0.0333 | 78.5 | 30-120 |
| Fluorene | 0.0209 | 0.00500 | " | 0.0333 | 62.6 | 30-120 |
| Indeno (1,2,3-cd) pyrene | 0.0191 | 0.00500 | " | 0.0333 | 57.4 | 30-120 |
| Pyrene | 0.0179 | 0.00500 | " | 0.0333 | 53.8 | 35-142 |
| 1-Methylnaphthalene | 0.0186 | 0.00500 | " | 0.0333 | 55.8 | 35-142 |
| 2-Methylnaphthalene | 0.0190 | 0.00500 | " | 0.0333 | 57.1 | 35-142 |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0183</i> | | " | <i>0.0333</i> | <i>54.8</i> | <i>40-150</i> |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0276</i> | | " | <i>0.0333</i> | <i>82.8</i> | <i>40-150</i> |

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
07/10/24 11:32

PAH by EPA Method 8270D SIM - Quality Control

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

Batch BHF0938 - EPA 5030 Soil MS

Matrix Spike (BHF0938-MS1)

Source: 2406444-02

Prepared & Analyzed: 06/28/24

| | | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|----|------|--------|--|--|--|
| Acenaphthene | 0.0145 | 0.00500 | mg/kg | 0.0333 | ND | 43.4 | 31-137 | | | |
| Anthracene | 0.0182 | 0.00500 | " | 0.0333 | ND | 54.6 | 30-120 | | | |
| Benzo (a) anthracene | 0.0166 | 0.00500 | " | 0.0333 | ND | 49.9 | 30-120 | | | |
| Benzo (a) pyrene | 0.0157 | 0.00500 | " | 0.0333 | ND | 47.2 | 30-120 | | | |
| Benzo (b) fluoranthene | 0.0137 | 0.00500 | " | 0.0333 | ND | 41.1 | 30-120 | | | |
| Benzo (k) fluoranthene | 0.0155 | 0.00500 | " | 0.0333 | ND | 46.4 | 30-120 | | | |
| Chrysene | 0.0146 | 0.00500 | " | 0.0333 | ND | 43.9 | 30-120 | | | |
| Dibenz (a,h) anthracene | 0.0142 | 0.00500 | " | 0.0333 | ND | 42.5 | 30-120 | | | |
| Fluoranthene | 0.0151 | 0.00500 | " | 0.0333 | ND | 45.2 | 30-120 | | | |
| Fluorene | 0.0161 | 0.00500 | " | 0.0333 | ND | 48.2 | 30-120 | | | |
| Indeno (1,2,3-cd) pyrene | 0.0182 | 0.00500 | " | 0.0333 | ND | 54.7 | 30-120 | | | |
| Pyrene | 0.0178 | 0.00500 | " | 0.0333 | ND | 53.4 | 35-142 | | | |
| 1-Methylnaphthalene | 0.0138 | 0.00500 | " | 0.0333 | ND | 41.4 | 15-130 | | | |
| 2-Methylnaphthalene | 0.0137 | 0.00500 | " | 0.0333 | ND | 41.1 | 15-130 | | | |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0138 | | " | 0.0333 | | 41.5 | 40-150 | | | |
| Surrogate: Fluoranthene-d10 | 0.0165 | | " | 0.0333 | | 49.4 | 40-150 | | | |

Matrix Spike Dup (BHF0938-MSD1)

Source: 2406444-02

Prepared & Analyzed: 06/28/24

| | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|----|------|--------|------|----|
| Acenaphthene | 0.0141 | 0.00500 | mg/kg | 0.0333 | ND | 42.2 | 31-137 | 2.84 | 30 |
| Anthracene | 0.0193 | 0.00500 | " | 0.0333 | ND | 57.9 | 30-120 | 5.85 | 30 |
| Benzo (a) anthracene | 0.0212 | 0.00500 | " | 0.0333 | ND | 63.6 | 30-120 | 24.1 | 30 |
| Benzo (a) pyrene | 0.0135 | 0.00500 | " | 0.0333 | ND | 40.4 | 30-120 | 15.5 | 30 |
| Benzo (b) fluoranthene | 0.0155 | 0.00500 | " | 0.0333 | ND | 46.6 | 30-120 | 12.7 | 30 |
| Benzo (k) fluoranthene | 0.0146 | 0.00500 | " | 0.0333 | ND | 43.7 | 30-120 | 5.86 | 30 |
| Chrysene | 0.0161 | 0.00500 | " | 0.0333 | ND | 48.3 | 30-120 | 9.47 | 30 |
| Dibenz (a,h) anthracene | 0.0185 | 0.00500 | " | 0.0333 | ND | 55.6 | 30-120 | 26.7 | 30 |
| Fluoranthene | 0.0196 | 0.00500 | " | 0.0333 | ND | 58.9 | 30-120 | 26.2 | 30 |
| Fluorene | 0.0145 | 0.00500 | " | 0.0333 | ND | 43.4 | 30-120 | 10.4 | 30 |
| Indeno (1,2,3-cd) pyrene | 0.0200 | 0.00500 | " | 0.0333 | ND | 59.9 | 30-120 | 9.17 | 30 |
| Pyrene | 0.0154 | 0.00500 | " | 0.0333 | ND | 46.1 | 35-142 | 14.7 | 30 |
| 1-Methylnaphthalene | 0.0168 | 0.00500 | " | 0.0333 | ND | 50.4 | 15-130 | 19.6 | 50 |
| 2-Methylnaphthalene | 0.0166 | 0.00500 | " | 0.0333 | ND | 49.9 | 15-130 | 19.5 | 50 |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0167 | | " | 0.0333 | | 50.2 | 40-150 | | |
| Surrogate: Fluoranthene-d10 | 0.0205 | | " | 0.0333 | | 61.5 | 40-150 | | |

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Fremont Environmental
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 Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
 Project Manager: Paul Henchan

Reported:
 07/10/24 11:32

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 BHF0336 - EPA 3050B

Blank (BHF0336-BLK1)

Prepared: 06/12/24 Analyzed: 06/14/24

Boron ND 2.00 mg/L

LCS (BHF0336-BS1)

Prepared: 06/12/24 Analyzed: 06/14/24

Boron 5.35 2.00 mg/L 5.00 107 80-120

Duplicate (BHF0336-DUP1)

Source: 2404413-17

Prepared: 06/12/24 Analyzed: 06/14/24

Boron 0.386 2.00 mg/L 0.415 7.32 20

Matrix Spike (BHF0336-MS1)

Source: 2404413-17

Prepared: 06/12/24 Analyzed: 06/14/24

Boron 5.52 2.00 mg/L 5.01 0.415 102 75-125

Matrix Spike Dup (BHF0336-MSD1)

Source: 2404413-17

Prepared: 06/12/24 Analyzed: 06/14/24

Boron 5.72 2.00 mg/L 5.01 0.415 106 75-125 3.71 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.



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
07/10/24 11:32

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 BHF0381 - EPA 3050B

Blank (BHF0381-BLK1)

Prepared: 06/13/24 Analyzed: 06/15/24

| | | | | | | | | | |
|----------|----|--------|-----------|--|--|--|--|--|--|
| 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 | " | | | | | | |
| Silver | ND | 0.0200 | " | | | | | | |
| Zinc | ND | 0.400 | " | | | | | | |
| Selenium | ND | 0.260 | " | | | | | | |

LCS (BHF0381-BS1)

Prepared: 06/13/24 Analyzed: 06/15/24

| | | | | | | |
|----------|------|--------|-----------|------|------|--------|
| Arsenic | 34.9 | 0.200 | mg/kg wet | 40.0 | 87.3 | 80-120 |
| Barium | 37.2 | 0.400 | " | 40.0 | 93.0 | 80-120 |
| Cadmium | 1.84 | 0.200 | " | 2.00 | 92.2 | 80-120 |
| Copper | 39.5 | 0.400 | " | 40.0 | 98.7 | 80-120 |
| Lead | 19.3 | 0.200 | " | 20.0 | 96.6 | 80-120 |
| Nickel | 39.3 | 0.400 | " | 40.0 | 98.2 | 80-120 |
| Silver | 1.82 | 0.0200 | " | 2.00 | 91.1 | 80-120 |
| Zinc | 39.7 | 0.400 | " | 40.0 | 99.2 | 80-120 |
| Selenium | 3.85 | 0.260 | " | 4.00 | 96.2 | 80-120 |

Duplicate (BHF0381-DUP1)

Source: 2406117-01

Prepared: 06/13/24 Analyzed: 06/15/24

| | | | | | | |
|----------|--------|--------|-----------|--------|-------|----|
| Arsenic | 2.48 | 0.200 | mg/kg dry | 2.61 | 5.06 | 20 |
| Barium | 881 | 0.400 | " | 780 | 12.1 | 20 |
| Cadmium | 0.526 | 0.200 | " | 0.474 | 10.4 | 20 |
| Copper | 6.48 | 0.400 | " | 5.93 | 8.84 | 20 |
| Lead | 5.12 | 0.200 | " | 5.05 | 1.36 | 20 |
| Nickel | 5.89 | 0.400 | " | 5.27 | 11.2 | 20 |
| Silver | 0.0425 | 0.0200 | " | 0.0429 | 0.948 | 20 |
| Zinc | 20.9 | 0.400 | " | 19.6 | 6.63 | 20 |
| Selenium | 0.742 | 0.260 | " | 0.687 | 7.70 | 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.



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
07/10/24 11:32

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 BHF0381 - EPA 3050B

Matrix Spike (BHF0381-MS1)

Source: 2406117-01

Prepared: 06/13/24 Analyzed: 06/15/24

| | | | | | | | | | | |
|----------|------|--------|-----------|------|--------|------|--------|--|--|-------|
| Arsenic | 38.9 | 0.200 | mg/kg dry | 39.6 | 2.61 | 91.8 | 75-125 | | | |
| Barium | 888 | 0.400 | " | 39.6 | 780 | 272 | 75-125 | | | QM-07 |
| Cadmium | 2.40 | 0.200 | " | 1.98 | 0.474 | 97.3 | 75-125 | | | |
| Copper | 33.6 | 0.400 | " | 39.6 | 5.93 | 70.0 | 75-125 | | | QM-07 |
| Lead | 23.0 | 0.200 | " | 19.8 | 5.05 | 90.6 | 75-125 | | | |
| Nickel | 33.3 | 0.400 | " | 39.6 | 5.27 | 70.8 | 75-125 | | | QM-07 |
| Silver | 1.87 | 0.0200 | " | 1.98 | 0.0429 | 92.2 | 75-125 | | | |
| Zinc | 49.0 | 0.400 | " | 39.6 | 19.6 | 74.4 | 75-125 | | | QM-07 |
| Selenium | 4.21 | 0.260 | " | 3.96 | 0.687 | 89.2 | 75-125 | | | |

Matrix Spike Dup (BHF0381-MSD1)

Source: 2406117-01

Prepared: 06/13/24 Analyzed: 06/15/24

| | | | | | | | | | | |
|----------|------|--------|-----------|------|--------|------|--------|------|----|-------|
| Arsenic | 40.4 | 0.200 | mg/kg dry | 40.5 | 2.61 | 93.4 | 75-125 | 3.76 | 25 | |
| Barium | 770 | 0.400 | " | 40.5 | 780 | NR | 75-125 | 14.2 | 25 | QM-07 |
| Cadmium | 2.45 | 0.200 | " | 2.02 | 0.474 | 97.6 | 75-125 | 2.07 | 25 | |
| Copper | 34.5 | 0.400 | " | 40.5 | 5.93 | 70.5 | 75-125 | 2.44 | 25 | QM-07 |
| Lead | 23.6 | 0.200 | " | 20.2 | 5.05 | 91.7 | 75-125 | 2.78 | 25 | |
| Nickel | 34.1 | 0.400 | " | 40.5 | 5.27 | 71.3 | 75-125 | 2.54 | 25 | QM-07 |
| Silver | 1.92 | 0.0200 | " | 2.02 | 0.0429 | 92.9 | 75-125 | 3.04 | 25 | |
| Zinc | 49.5 | 0.400 | " | 40.5 | 19.6 | 74.0 | 75-125 | 1.03 | 25 | QM-07 |
| Selenium | 4.44 | 0.260 | " | 4.05 | 0.687 | 92.8 | 75-125 | 5.30 | 25 | |

Batch BHF0956 - EPA 3050B

Blank (BHF0956-BLK1)

Prepared: 06/28/24 Analyzed: 07/04/24

| | | | | | | | | | | |
|----------|----|--------|-----------|--|--|--|--|--|--|--|
| 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 | " | | | | | | | |
| Silver | ND | 0.0200 | " | | | | | | | |
| Zinc | ND | 0.400 | " | | | | | | | |
| Selenium | ND | 0.260 | " | | | | | | | |

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.



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
07/10/24 11:32

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 BHF0956 - EPA 3050B

LCS (BHF0956-BS1)

Prepared: 06/28/24 Analyzed: 07/04/24

| | | | | | | | | | | |
|----------|------|--------|-----------|------|--|------|--------|--|--|--|
| Arsenic | 41.7 | 0.200 | mg/kg wet | 40.0 | | 104 | 80-120 | | | |
| Barium | 40.8 | 0.400 | " | 40.0 | | 102 | 80-120 | | | |
| Cadmium | 1.97 | 0.200 | " | 2.00 | | 98.3 | 80-120 | | | |
| Copper | 41.9 | 0.400 | " | 40.0 | | 105 | 80-120 | | | |
| Lead | 19.6 | 0.200 | " | 20.0 | | 98.0 | 80-120 | | | |
| Nickel | 41.4 | 0.400 | " | 40.0 | | 103 | 80-120 | | | |
| Silver | 1.98 | 0.0200 | " | 2.00 | | 98.8 | 80-120 | | | |
| Zinc | 40.9 | 0.400 | " | 40.0 | | 102 | 80-120 | | | |
| Selenium | 4.51 | 0.260 | " | 4.00 | | 113 | 80-120 | | | |

Duplicate (BHF0956-DUP1)

Source: 2404170-01RE1

Prepared: 06/28/24 Analyzed: 07/04/24

| | | | | | | | | | | |
|----------|--------|--------|-----------|--|--------|--|--|------|----|-------|
| Arsenic | 5.75 | 0.200 | mg/kg wet | | 7.21 | | | 22.5 | 20 | QR-04 |
| Barium | 68.6 | 0.400 | " | | 51.0 | | | 29.4 | 20 | QR-04 |
| Cadmium | 0.289 | 0.200 | " | | 0.269 | | | 7.18 | 20 | |
| Copper | 12.4 | 0.400 | " | | 14.5 | | | 16.1 | 20 | |
| Lead | 10.5 | 0.200 | " | | 11.7 | | | 10.8 | 20 | |
| Nickel | 9.31 | 0.400 | " | | 11.0 | | | 16.8 | 20 | |
| Silver | 0.0377 | 0.0200 | " | | 0.0350 | | | 7.50 | 20 | |
| Zinc | 44.4 | 0.400 | " | | 51.9 | | | 15.6 | 20 | |
| Selenium | 0.224 | 0.260 | " | | 0.209 | | | 6.88 | 20 | |

Matrix Spike (BHF0956-MS1)

Source: 2404170-01RE1

Prepared: 06/28/24 Analyzed: 07/04/24

| | | | | | | | | | | |
|----------|------|--------|-----------|------|--------|------|--------|--|--|-------|
| Arsenic | 45.0 | 0.200 | mg/kg wet | 39.4 | 7.21 | 96.0 | 75-125 | | | |
| Barium | 536 | 0.400 | " | 39.4 | 51.0 | NR | 75-125 | | | QM-07 |
| Cadmium | 2.20 | 0.200 | " | 1.97 | 0.269 | 98.1 | 75-125 | | | |
| Copper | 50.9 | 0.400 | " | 39.4 | 14.5 | 92.2 | 75-125 | | | |
| Lead | 29.2 | 0.200 | " | 19.7 | 11.7 | 88.7 | 75-125 | | | |
| Nickel | 47.7 | 0.400 | " | 39.4 | 11.0 | 93.1 | 75-125 | | | |
| Silver | 1.94 | 0.0200 | " | 1.97 | 0.0350 | 96.7 | 75-125 | | | |
| Zinc | 85.0 | 0.400 | " | 39.4 | 51.9 | 83.9 | 75-125 | | | |
| Selenium | 4.22 | 0.260 | " | 3.94 | 0.209 | 102 | 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.



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
 Project Manager: Paul Henchan

Reported:
 07/10/24 11:32

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 BHF0956 - EPA 3050B

Matrix Spike Dup (BHF0956-MSD1)

Source: 2404170-01RE1 Prepared: 06/28/24 Analyzed: 07/04/24

| Analyte | Result | Limit | Units | Spike Level | Source Result | Source %REC | Source Limits | Source RPD | Limit | Notes |
|----------|--------|--------|-----------|-------------|---------------|-------------|---------------|------------|-------|-------|
| Arsenic | 42.8 | 0.200 | mg/kg wet | 38.2 | 7.21 | 93.3 | 75-125 | 4.95 | 25 | |
| Barium | 341 | 0.400 | " | 38.2 | 51.0 | 760 | 75-125 | 44.5 | 25 | QM-07 |
| Cadmium | 2.17 | 0.200 | " | 1.91 | 0.269 | 99.4 | 75-125 | 1.52 | 25 | |
| Copper | 50.8 | 0.400 | " | 38.2 | 14.5 | 95.0 | 75-125 | 0.0681 | 25 | |
| Lead | 28.9 | 0.200 | " | 19.1 | 11.7 | 89.7 | 75-125 | 1.16 | 25 | |
| Nickel | 48.2 | 0.400 | " | 38.2 | 11.0 | 97.3 | 75-125 | 1.04 | 25 | |
| Silver | 1.91 | 0.0200 | " | 1.91 | 0.0350 | 98.1 | 75-125 | 1.69 | 25 | |
| Zinc | 87.1 | 0.400 | " | 38.2 | 51.9 | 92.2 | 75-125 | 2.51 | 25 | |
| Selenium | 4.26 | 0.260 | " | 3.82 | 0.209 | 106 | 75-125 | 0.939 | 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.



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
 Project Manager: Paul Henchan

Reported:
 07/10/24 11:32

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 BHF0326 - 3060A Mod

Blank (BHF0326-BLK1)

Prepared & Analyzed: 06/12/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHF0326-BS1)

Prepared & Analyzed: 06/12/24

Chromium, Hexavalent 25.2 0.30 mg/kg wet 25.0 101 80-120

Duplicate (BHF0326-DUP1)

Source: 2406127-01

Prepared & Analyzed: 06/12/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHF0326-MS1)

Source: 2406127-01

Prepared & Analyzed: 06/12/24

Chromium, Hexavalent 29.3 0.30 mg/kg dry 30.4 ND 96.2 75-125

Matrix Spike Dup (BHF0326-MSD1)

Source: 2406127-01

Prepared & Analyzed: 06/12/24

Chromium, Hexavalent 27.3 0.30 mg/kg dry 29.2 ND 93.4 75-125 6.99 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.



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
 Project Manager: Paul Henchan

Reported:
 07/10/24 11:32

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 BHF0472 - General Preparation

Blank (BHF0472-BLK1)

Prepared: 06/17/24 Analyzed: 06/18/24


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

LCS (BHF0472-BS1)

Prepared: 06/17/24 Analyzed: 06/18/24

| | | | | | | | | | | |
|-----------|------|--------|----------|------|--|------|--------|--|--|--|
| Calcium | 5.27 | 0.0500 | mg/L wet | 5.00 | | 105 | 70-130 | | | |
| Magnesium | 5.07 | 0.0500 | " | 5.00 | | 101 | 70-130 | | | |
| Sodium | 4.87 | 0.0500 | " | 5.00 | | 97.3 | 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.



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
 Project Manager: Paul Henchan

Reported:
 07/10/24 11:32

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

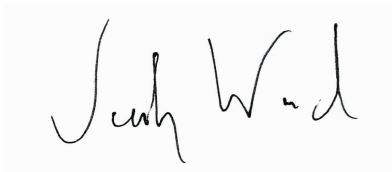
Summit Scientific

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

Batch BHF0322 - General Preparation

| Duplicate (BHF0322-DUP1) | Source: 2406117-01 | | Prepared: 06/12/24 Analyzed: 06/14/24 | |
|--------------------------|--------------------|---|---------------------------------------|----------|
| % Solids | 95.3 | % | 95.7 | 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.



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
 Project Manager: Paul Henchan

Reported:
 07/10/24 11:32

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 BHF0473 - General Preparation

Blank (BHF0473-BLK1)

Prepared: 06/17/24 Analyzed: 06/18/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHF0473-BS1)

Prepared: 06/17/24 Analyzed: 06/18/24

Specific Conductance (EC) 0.150 0.0100 mmhos/cm 0.150 99.9 95-105

Duplicate (BHF0473-DUP1)

Source: 2406139-01

Prepared: 06/17/24 Analyzed: 06/18/24

Specific Conductance (EC) 0.184 0.0100 mmhos/cm 0.192 3.93 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.



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
 Project Manager: Paul Henchan

Reported:
 07/10/24 11:32

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 BHF0474 - General Preparation

LCS (BHF0474-BS1)

Prepared: 06/17/24 Analyzed: 06/18/24

pH 9.20 pH Units 9.18 100 95-105

Duplicate (BHF0474-DUP1)

Source: 2406139-01

Prepared: 06/17/24 Analyzed: 06/18/24

pH 7.62 pH Units 7.71 1.17 20

Batch BHG0035 - General Preparation

LCS (BHG0035-BS1)

Prepared: 07/01/24 Analyzed: 07/02/24

pH 9.24 pH Units 9.18 101 95-105

Duplicate (BHG0035-DUP1)

Source: 2404199-10RE1

Prepared: 07/01/24 Analyzed: 07/02/24

pH 8.70 pH Units 8.71 0.115 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.



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus T5N-R65W-S28 L01

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
07/10/24 11:32

Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- R-03 The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- 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.
- O-05 This sample was extracted outside of the EPA recommended holding time.
- O-04 This sample was analyzed above the recommended temperature.
- I-04 Sample was analyzed out of recommended holding time per clients request.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

June 21, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Markus (Backgrounds)

Work Order #2406142

Enclosed are the results of analyses for samples received by Summit Scientific on 06/11/24 15:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Natalie Tessier For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN

Project Manager: Paul Henchan

Reported:
06/21/24 07:55

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|------------|---------------|--------|----------------|----------------|
| BKG01@6.0" | 2406142-01 | Soil | 06/11/24 00:00 | 06/11/24 15:35 |
| BKG01@4.0' | 2406142-02 | Soil | 06/11/24 00:00 | 06/11/24 15:35 |
| BKG01@5.0' | 2406142-03 | Soil | 06/11/24 00:00 | 06/11/24 15:35 |
| BKG02@6.0" | 2406142-04 | Soil | 06/11/24 00:00 | 06/11/24 15:35 |
| BKG02@4.0' | 2406142-05 | Soil | 06/11/24 00:00 | 06/11/24 15:35 |
| BKG02@5.0' | 2406142-06 | Soil | 06/11/24 00:00 | 06/11/24 15:35 |
| BKG03@6.0" | 2406142-07 | Soil | 06/11/24 00:00 | 06/11/24 15:35 |
| BKG03@4.0' | 2406142-08 | Soil | 06/11/24 00:00 | 06/11/24 15:35 |
| BKG03@5.0' | 2406142-09 | Soil | 06/11/24 00:00 | 06/11/24 15:35 |
| BKG04@6.0" | 2406142-10 | Soil | 06/11/24 00:00 | 06/11/24 15:35 |
| BKG04@4.0' | 2406142-11 | Soil | 06/11/24 00:00 | 06/11/24 15:35 |
| BKG04@5.0' | 2406142-12 | Soil | 06/11/24 00:00 | 06/11/24 15:35 |
| BKG05@6.0" | 2406142-13 | Soil | 06/11/24 00:00 | 06/11/24 15:35 |
| BKG05@4.0' | 2406142-14 | Soil | 06/11/24 00:00 | 06/11/24 15:35 |
| BKG05@5.0' | 2406142-15 | Soil | 06/11/24 00:00 | 06/11/24 15:35 |

Summit Scientific

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

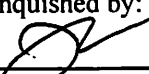
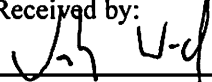
SUMMIT SCIENTIFIC

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

| | |
|--------|-------------|
| Lab ID | Page 1 of 1 |
| 240642 | |

| | | | | | |
|----------------------------|--|--|--|--|--|
| Client: Fremont Env | | Send Data To: | | Send Invoice To: | |
| Address: | | Project Manager: | | Company: Noble | |
| City/State/Zip: | | E-Mail: Pwllh@fremontenv.com | | Project Name/Location: | |
| Phone: | | Jeff@fremontenv.com Ethamb@fremontenv.com | | AFE#: | |
| Sampler Name: JG | | Project Name: Markus (Backgrounds) | | PO/Billing Codes: UWRWF-A3314-ABN | |
| | | 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 | EC, pH, SAR, Boron | Metals (915) | | |
| 1 | BK601@6.0' | 6/11/24 | | 1 | | | X | | | X | | | X | X | | |
| 2 | BK601@4.0' | | | | | | | | | | | | | | | |
| 3 | BK601@5.0' | | | | | | | | | | | | | | | |
| 4 | BK602@6.0' | | | | | | | | | | | | | | | |
| 5 | BK602@4.0' | | | | | | | | | | | | | | | |
| 6 | BK602@5.0' | | | | | | | | | | | | | | | |
| 7 | BK603@6.0' | | | | | | | | | | | | | | | |
| 8 | BK603@4.0' | | | | | | | | | | | | | | | |
| 9 | BK603@5.0' | | | | | | | | | | | | | | | |
| 10 | BK604@6.0' | | | | | | | | | | | | | | | |
| 11 | BK604@4.0' | | | | | | | | | | | | | | | |
| 12 | BK604@5.0' | | | | | | | | | | | | | | | |
| 13 | BK605@6.0' | | | | | | | | | | | | | | | |
| 14 | BK605@4.0' | | | | | | | | | | | | | | | |
| 15 | BK605@5.0' | | | | | | | | | | | | | | | |

| | | | | | | |
|--|--------------------------|--|--------------------------|-------------------|---|--------|
| Relinquished by:  | Date/Time: 6/11/24 15:35 | Received by:  | Date/Time: 6/11/24 15:35 | TAT Business Days | Field DO | Notes: |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 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: 24.4 | Corrected Temperature: | IR gun #: 2 | HNO3 lot #: | Standard | <input checked="" type="checkbox"/> Field Turb. | |

S₂

S2 Work Order# 2406142

Sample Receipt Checklist

Client: Fremont Client Project ID: Markus (Backgrounds)

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

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

Temp (°C) 24.4

Thermometer # 2

| | 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 type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| If custody seals are present, are they intact? ⁽¹⁾ | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Are samples due within 48 hours present? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen | <input type="checkbox"/> | <input 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"/> | <i>No Sample time S</i> |
| 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. | | | | |

W. J. W. J.
Custodian Printed Name

6/11/24 15:35
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
06/21/24 07:55

BKG01@6.0''
2406142-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Boron | ND | 2.00 | | mg/L | 1 | BHF0340 | 06/12/24 | 06/15/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|--|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Arsenic | 1.72 | 0.200 | | mg/kg dry | 1 | BHF0360 | 06/13/24 | 06/18/24 | EPA 6020B | |
| Barium | 35.4 | 0.400 | | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | | " | " | " | " | " | " | |
| Copper | 3.38 | 0.400 | | " | " | " | " | " | " | |
| Lead | 7.02 | 0.200 | | " | " | " | " | " | " | |
| Nickel | 1.95 | 0.400 | | " | " | " | " | " | " | |
| Silver | 0.0213 | 0.0200 | | " | " | " | " | " | " | |
| Zinc | 16.0 | 0.400 | | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|--|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | | mg/kg dry | 1 | BHF0345 | 06/12/24 | 06/13/24 | EPA 7196A | |

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

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Calcium | 40.8 | 0.0500 | | mg/L dry | 1 | BHF0435 | 06/14/24 | 06/19/24 | EPA 6020B | |
| Magnesium | 16.2 | 0.0500 | | " | " | " | " | " | " | |
| Sodium | 288 | 0.0500 | | " | " | " | " | " | " | |

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
 Project Manager: Paul Henchan

Reported:
 06/21/24 07:55

BKG01@6.0"
2406142-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 9.65 | 0.00100 | units | 1 | BHF0611 | 06/20/24 | 06/20/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 90.8 | | % | 1 | BHF0341 | 06/12/24 | 06/12/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 2.14 | 0.0100 | mmhos/cm | 1 | BHF0436 | 06/14/24 | 06/17/24 | EPA 120.1 | |

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

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 9.11 | | pH Units | 1 | BHF0437 | 06/14/24 | 06/17/24 | EPA 9045D | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
06/21/24 07:55

BKG01@4.0'
2406142-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Boron | ND | 2.00 | mg/L | 1 | BHF0340 | 06/12/24 | 06/15/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------|--------------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 0.779 | 0.200 | mg/kg dry | 1 | BHF0360 | 06/13/24 | 06/18/24 | EPA 6020B | |
| Barium | 41.3 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 2.85 | 0.400 | " | " | " | " | " | " | |
| Lead | 2.50 | 0.200 | " | " | " | " | " | " | |
| Nickel | 2.13 | 0.400 | " | " | " | " | " | " | |
| Silver | ND | 0.0200 | " | " | " | " | " | " | |
| Zinc | 12.7 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHF0345 | 06/12/24 | 06/13/24 | EPA 7196A | |

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

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------|-------------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Calcium | 40.5 | 0.0500 | mg/L dry | 1 | BHF0435 | 06/14/24 | 06/19/24 | EPA 6020B | |
| Magnesium | 16.3 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 59.8 | 0.0500 | " | " | " | " | " | " | |

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
 Project Manager: Paul Henchan

Reported:
 06/21/24 07:55

BKG01@4.0'
2406142-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 2.01 | 0.00100 | units | 1 | BHF0611 | 06/20/24 | 06/20/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 87.6 | | % | 1 | BHF0341 | 06/12/24 | 06/12/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.573 | 0.0100 | mmhos/cm | 1 | BHF0436 | 06/14/24 | 06/17/24 | EPA 120.1 | |

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

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.12 | | pH Units | 1 | BHF0437 | 06/14/24 | 06/17/24 | EPA 9045D | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
06/21/24 07:55

BKG01@5.0'
2406142-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Boron | ND | 2.00 | | mg/L | 1 | BHF0340 | 06/12/24 | 06/15/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------|--------------|-----------|--|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Arsenic | 0.824 | 0.200 | | mg/kg dry | 1 | BHF0360 | 06/13/24 | 06/18/24 | EPA 6020B | |
| Barium | 31.0 | 0.400 | | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | | " | " | " | " | " | " | |
| Copper | 3.82 | 0.400 | | " | " | " | " | " | " | |
| Lead | 2.62 | 0.200 | | " | " | " | " | " | " | |
| Nickel | 2.04 | 0.400 | | " | " | " | " | " | " | |
| Silver | ND | 0.0200 | | " | " | " | " | " | " | |
| Zinc | 12.0 | 0.400 | | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|--|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | | mg/kg dry | 1 | BHF0345 | 06/12/24 | 06/13/24 | EPA 7196A | |

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

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------|-------------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Calcium | 40.4 | 0.0500 | | mg/L dry | 1 | BHF0435 | 06/14/24 | 06/19/24 | EPA 6020B | |
| Magnesium | 14.0 | 0.0500 | | " | " | " | " | " | " | |
| Sodium | 49.7 | 0.0500 | | " | " | " | " | " | " | |

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
 Project Manager: Paul Henchan

Reported:
 06/21/24 07:55

BKG01@5.0'
2406142-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 1.72 | 0.00100 | units | 1 | BHF0611 | 06/20/24 | 06/20/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 83.8 | | % | 1 | BHF0341 | 06/12/24 | 06/12/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.364 | 0.0100 | mmhos/cm | 1 | BHF0436 | 06/14/24 | 06/17/24 | EPA 120.1 | |

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

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.26 | | pH Units | 1 | BHF0437 | 06/14/24 | 06/17/24 | EPA 9045D | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
06/21/24 07:55

BKG02@6.0"
2406142-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Boron | 2.62 | 2.00 | mg/L | 1 | BHF0340 | 06/12/24 | 06/15/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 1.72 | 0.200 | mg/kg dry | 1 | BHF0360 | 06/13/24 | 06/18/24 | EPA 6020B | |
| Barium | 92.5 | 0.400 | " | " | " | " | " | " | |
| Cadmium | 0.491 | 0.200 | " | " | " | " | " | " | |
| Copper | 9.73 | 0.400 | " | " | " | " | " | " | |
| Lead | 17.0 | 0.200 | " | " | " | " | " | " | |
| Nickel | 3.56 | 0.400 | " | " | " | " | " | " | |
| Silver | 0.105 | 0.0200 | " | " | " | " | " | " | |
| Zinc | 40.2 | 0.400 | " | " | " | " | " | " | |
| Selenium | 0.392 | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHF0345 | 06/12/24 | 06/13/24 | EPA 7196A | |

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

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Calcium | 159 | 0.0500 | mg/L dry | 1 | BHF0435 | 06/14/24 | 06/19/24 | EPA 6020B | |
| Magnesium | 35.2 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 53.3 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

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.



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus (Backgrounds)
Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
06/21/24 07:55

BKG02@6.0"
2406142-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.996 | 0.00100 | units | 1 | BHF0611 | 06/20/24 | 06/20/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|-------------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 86.1 | | % | 1 | BHF0341 | 06/12/24 | 06/12/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.656 | 0.0100 | mmhos/cm | 1 | BHF0436 | 06/14/24 | 06/17/24 | EPA 120.1 | |

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

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.41 | | pH Units | 1 | BHF0437 | 06/14/24 | 06/17/24 | EPA 9045D | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
06/21/24 07:55

BKG02@4.0'
2406142-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Boron | ND | 2.00 | | mg/L | 1 | BHF0340 | 06/12/24 | 06/15/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|---------------|-----------|--|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Arsenic | 0.618 | 0.200 | | mg/kg dry | 1 | BHF0360 | 06/13/24 | 06/18/24 | EPA 6020B | |
| Barium | 62.5 | 0.400 | | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | | " | " | " | " | " | " | |
| Copper | 4.32 | 0.400 | | " | " | " | " | " | " | |
| Lead | 3.00 | 0.200 | | " | " | " | " | " | " | |
| Nickel | 2.19 | 0.400 | | " | " | " | " | " | " | |
| Silver | 0.0215 | 0.0200 | | " | " | " | " | " | " | |
| Zinc | 10.1 | 0.400 | | " | " | " | " | " | " | |
| Selenium | 0.697 | 0.260 | | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|--|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | | mg/kg dry | 1 | BHF0345 | 06/12/24 | 06/13/24 | EPA 7196A | |

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

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Calcium | 50.1 | 0.0500 | | mg/L dry | 1 | BHF0435 | 06/14/24 | 06/19/24 | EPA 6020B | |
| Magnesium | 20.4 | 0.0500 | | " | " | " | " | " | " | |
| Sodium | 185 | 0.0500 | | " | " | " | " | " | " | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
06/21/24 07:55

BKG02@4.0'
2406142-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 5.57 | 0.00100 | units | 1 | BHF0611 | 06/20/24 | 06/20/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 85.6 | | % | 1 | BHF0341 | 06/12/24 | 06/12/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 1.01 | 0.0100 | mmhos/cm | 1 | BHF0436 | 06/14/24 | 06/17/24 | EPA 120.1 | |

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

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.33 | | pH Units | 1 | BHF0437 | 06/14/24 | 06/17/24 | EPA 9045D | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
06/21/24 07:55

BKG02@5.0'
2406142-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Boron | ND | 2.00 | mg/L | 1 | BHF0340 | 06/12/24 | 06/15/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------|--------------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 0.205 | 0.179 | mg/kg dry | 1 | BHF0360 | 06/13/24 | 06/18/24 | EPA 6020B | |
| Barium | 19.5 | 0.357 | " | " | " | " | " | " | |
| Cadmium | ND | 0.179 | " | " | " | " | " | " | |
| Copper | 1.54 | 0.357 | " | " | " | " | " | " | |
| Lead | 1.63 | 0.179 | " | " | " | " | " | " | |
| Nickel | 0.678 | 0.357 | " | " | " | " | " | " | |
| Silver | ND | 0.0179 | " | " | " | " | " | " | |
| Zinc | 4.45 | 0.357 | " | " | " | " | " | " | |
| Selenium | ND | 0.232 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHF0345 | 06/12/24 | 06/13/24 | EPA 7196A | |

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

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------|-------------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Calcium | 51.0 | 0.0500 | mg/L dry | 1 | BHF0435 | 06/14/24 | 06/19/24 | EPA 6020B | |
| Magnesium | 15.9 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 39.2 | 0.0500 | " | " | " | " | " | " | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
06/21/24 07:55

BKG02@5.0'
2406142-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 1.23 | 0.00100 | units | 1 | BHF0611 | 06/20/24 | 06/20/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 84.7 | | % | 1 | BHF0341 | 06/12/24 | 06/12/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.309 | 0.0100 | mmhos/cm | 1 | BHF0436 | 06/14/24 | 06/17/24 | EPA 120.1 | |

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

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.70 | | pH Units | 1 | BHF0437 | 06/14/24 | 06/17/24 | EPA 9045D | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
06/21/24 07:55

BKG03@6.0"
2406142-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Boron | ND | 0.0198 | | mg/L | 1 | BHF0340 | 06/12/24 | 06/15/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|---------------|-----------|--|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Arsenic | 1.59 | 0.200 | | mg/kg dry | 1 | BHF0360 | 06/13/24 | 06/18/24 | EPA 6020B | |
| Barium | 48.4 | 0.400 | | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | | " | " | " | " | " | " | |
| Copper | 5.20 | 0.400 | | " | " | " | " | " | " | |
| Lead | 6.18 | 0.200 | | " | " | " | " | " | " | |
| Nickel | 3.24 | 0.400 | | " | " | " | " | " | " | |
| Silver | 0.0248 | 0.0200 | | " | " | " | " | " | " | |
| Zinc | 20.0 | 0.400 | | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|--|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | | mg/kg dry | 1 | BHF0345 | 06/12/24 | 06/13/24 | EPA 7196A | |

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

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Calcium | 80.7 | 0.0500 | | mg/L dry | 1 | BHF0435 | 06/14/24 | 06/19/24 | EPA 6020B | |
| Magnesium | 44.4 | 0.0500 | | " | " | " | " | " | " | |
| Sodium | 158 | 0.0500 | | " | " | " | " | " | " | |

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
 Project Manager: Paul Henchan

Reported:
 06/21/24 07:55

BKG03@6.0"
2406142-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 3.51 | 0.00100 | units | 1 | BHF0611 | 06/20/24 | 06/20/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 84.3 | | % | 1 | BHF0341 | 06/12/24 | 06/12/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 1.25 | 0.0100 | mmhos/cm | 1 | BHF0436 | 06/14/24 | 06/17/24 | EPA 120.1 | |

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

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.38 | | pH Units | 1 | BHF0437 | 06/14/24 | 06/17/24 | EPA 9045D | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
06/21/24 07:55

BKG03@4.0'
2406142-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Boron | ND | 2.00 | | mg/L | 1 | BHF0340 | 06/12/24 | 06/15/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|--|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Arsenic | 2.90 | 0.200 | | mg/kg dry | 1 | BHF0360 | 06/13/24 | 06/18/24 | EPA 6020B | |
| Barium | 73.4 | 0.400 | | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | | " | " | " | " | " | " | |
| Copper | 4.56 | 0.400 | | " | " | " | " | " | " | |
| Lead | 6.17 | 0.200 | | " | " | " | " | " | " | |
| Nickel | 4.13 | 0.400 | | " | " | " | " | " | " | |
| Silver | 0.0331 | 0.0200 | | " | " | " | " | " | " | |
| Zinc | 16.5 | 0.400 | | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|--|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | | mg/kg dry | 1 | BHF0345 | 06/12/24 | 06/13/24 | EPA 7196A | |

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

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Calcium | 54.5 | 0.0500 | | mg/L dry | 1 | BHF0435 | 06/14/24 | 06/19/24 | EPA 6020B | |
| Magnesium | 20.9 | 0.0500 | | " | " | " | " | " | " | |
| Sodium | 97.9 | 0.0500 | | " | " | " | " | " | " | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
06/21/24 07:55

BKG03@4.0'
2406142-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 2.86 | 0.00100 | units | 1 | BHF0611 | 06/20/24 | 06/20/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 84.1 | | % | 1 | BHF0341 | 06/12/24 | 06/12/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.789 | 0.0100 | mmhos/cm | 1 | BHF0436 | 06/14/24 | 06/17/24 | EPA 120.1 | |

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

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.25 | | pH Units | 1 | BHF0437 | 06/14/24 | 06/17/24 | EPA 9045D | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
06/21/24 07:55

BKG03@5.0'
2406142-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Boron | ND | 2.00 | mg/L | 1 | BHF0340 | 06/12/24 | 06/15/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|---------------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 1.70 | 0.200 | mg/kg dry | 1 | BHF0360 | 06/13/24 | 06/18/24 | EPA 6020B | |
| Barium | 77.5 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 3.60 | 0.400 | " | " | " | " | " | " | |
| Lead | 4.15 | 0.200 | " | " | " | " | " | " | |
| Nickel | 3.29 | 0.400 | " | " | " | " | " | " | |
| Silver | 0.0262 | 0.0200 | " | " | " | " | " | " | |
| Zinc | 14.5 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHF0345 | 06/12/24 | 06/13/24 | EPA 7196A | |

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

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Calcium | 30.9 | 0.0500 | mg/L dry | 1 | BHF0435 | 06/14/24 | 06/19/24 | EPA 6020B | |
| Magnesium | 11.1 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 56.5 | 0.0500 | " | " | " | " | " | " | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus (Backgrounds)
Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
06/21/24 07:55

BKG03@5.0'
2406142-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 2.22 | 0.00100 | units | 1 | BHF0611 | 06/20/24 | 06/20/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 86.6 | | % | 1 | BHF0341 | 06/12/24 | 06/12/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.466 | 0.0100 | mmhos/cm | 1 | BHF0436 | 06/14/24 | 06/17/24 | EPA 120.1 | |

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

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.04 | | pH Units | 1 | BHF0437 | 06/14/24 | 06/17/24 | EPA 9045D | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
06/21/24 07:55

BKG04@6.0"
2406142-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Boron | ND | 2.00 | | mg/L | 1 | BHF0340 | 06/12/24 | 06/15/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------------|-----------|--|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Arsenic | 3.16 | 0.180 | | mg/kg dry | 1 | BHF0360 | 06/13/24 | 06/18/24 | EPA 6020B | |
| Barium | 62.2 | 0.360 | | " | " | " | " | " | " | |
| Cadmium | 0.385 | 0.180 | | " | " | " | " | " | " | |
| Copper | 5.80 | 0.360 | | " | " | " | " | " | " | |
| Lead | 12.5 | 0.180 | | " | " | " | " | " | " | |
| Nickel | 3.12 | 0.360 | | " | " | " | " | " | " | |
| Silver | 0.175 | 0.0180 | | " | " | " | " | " | " | |
| Zinc | 25.0 | 0.360 | | " | " | " | " | " | " | |
| Selenium | ND | 0.234 | | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|--|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | | mg/kg dry | 1 | BHF0345 | 06/12/24 | 06/13/24 | EPA 7196A | |

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

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Calcium | 42.5 | 0.0500 | | mg/L dry | 1 | BHF0435 | 06/14/24 | 06/19/24 | EPA 6020B | |
| Magnesium | 22.1 | 0.0500 | | " | " | " | " | " | " | |
| Sodium | 133 | 0.0500 | | " | " | " | " | " | " | |

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
 Project Manager: Paul Henchan

Reported:
 06/21/24 07:55

BKG04@6.0"
2406142-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 4.12 | 0.00100 | units | 1 | BHF0611 | 06/20/24 | 06/20/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 91.1 | | % | 1 | BHF0341 | 06/12/24 | 06/12/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.875 | 0.0100 | mmhos/cm | 1 | BHF0436 | 06/14/24 | 06/17/24 | EPA 120.1 | |

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

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.37 | | pH Units | 1 | BHF0437 | 06/14/24 | 06/17/24 | EPA 9045D | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
06/21/24 07:55

BKG04@4.0'
2406142-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Boron | ND | 2.00 | mg/L | 1 | BHF0340 | 06/12/24 | 06/15/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|---------------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 0.816 | 0.200 | mg/kg dry | 1 | BHF0360 | 06/13/24 | 06/18/24 | EPA 6020B | |
| Barium | 66.6 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 3.00 | 0.400 | " | " | " | " | " | " | |
| Lead | 3.84 | 0.200 | " | " | " | " | " | " | |
| Nickel | 2.66 | 0.400 | " | " | " | " | " | " | |
| Silver | 0.0206 | 0.0200 | " | " | " | " | " | " | |
| Zinc | 13.9 | 0.400 | " | " | " | " | " | " | |
| Selenium | 1.61 | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHF0345 | 06/12/24 | 06/13/24 | EPA 7196A | |

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

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Calcium | 198 | 0.0500 | mg/L dry | 1 | BHF0435 | 06/14/24 | 06/19/24 | EPA 6020B | |
| Magnesium | 77.5 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 46.5 | 0.0500 | " | " | " | " | " | " | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
06/21/24 07:55

BKG04@4.0'
2406142-11 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.709 | 0.00100 | units | 1 | BHF0611 | 06/20/24 | 06/20/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|-------------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 92.8 | | % | 1 | BHF0341 | 06/12/24 | 06/12/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.289 | 0.0100 | mmhos/cm | 1 | BHF0436 | 06/14/24 | 06/17/24 | EPA 120.1 | |

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

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 7.92 | | pH Units | 1 | BHF0437 | 06/14/24 | 06/17/24 | EPA 9045D | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
06/21/24 07:55

BKG04@5.0'
2406142-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Boron | ND | 2.00 | mg/L | 1 | BHF0340 | 06/12/24 | 06/15/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 0.274 | 0.200 | mg/kg dry | 1 | BHF0360 | 06/13/24 | 06/18/24 | EPA 6020B | |
| Barium | 10.6 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 0.966 | 0.400 | " | " | " | " | " | " | |
| Lead | 1.13 | 0.200 | " | " | " | " | " | " | |
| Nickel | 0.682 | 0.400 | " | " | " | " | " | " | |
| Silver | ND | 0.0200 | " | " | " | " | " | " | |
| Zinc | 3.93 | 0.400 | " | " | " | " | " | " | |
| Selenium | 0.671 | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHF0345 | 06/12/24 | 06/13/24 | EPA 7196A | |

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

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Calcium | 45.1 | 0.0500 | mg/L dry | 1 | BHF0435 | 06/14/24 | 06/19/24 | EPA 6020B | |
| Magnesium | 18.8 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 33.1 | 0.0500 | " | " | " | " | " | " | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
06/21/24 07:55

BKG04@5.0'
2406142-12 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 1.04 | 0.00100 | units | 1 | BHF0611 | 06/20/24 | 06/20/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 93.4 | | % | 1 | BHF0341 | 06/12/24 | 06/12/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.293 | 0.0100 | mmhos/cm | 1 | BHF0436 | 06/14/24 | 06/17/24 | EPA 120.1 | |

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

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.22 | | pH Units | 1 | BHF0437 | 06/14/24 | 06/17/24 | EPA 9045D | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
06/21/24 07:55

BKG05@6.0"
2406142-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Boron | ND | 2.00 | | mg/L | 1 | BHF0340 | 06/12/24 | 06/15/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|---------------|-----------|--|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Arsenic | 3.69 | 0.200 | | mg/kg dry | 1 | BHF0360 | 06/13/24 | 06/18/24 | EPA 6020B | |
| Barium | 102 | 0.400 | | " | " | " | " | " | " | |
| Cadmium | 0.335 | 0.200 | | " | " | " | " | " | " | |
| Copper | 5.53 | 0.400 | | " | " | " | " | " | " | |
| Lead | 7.47 | 0.200 | | " | " | " | " | " | " | |
| Nickel | 4.76 | 0.400 | | " | " | " | " | " | " | |
| Silver | 0.0697 | 0.0200 | | " | " | " | " | " | " | |
| Zinc | 24.6 | 0.400 | | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|--|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | | mg/kg dry | 1 | BHF0345 | 06/12/24 | 06/13/24 | EPA 7196A | |

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

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Calcium | 53.2 | 0.0500 | | mg/L dry | 1 | BHF0435 | 06/14/24 | 06/19/24 | EPA 6020B | |
| Magnesium | 24.1 | 0.0500 | | " | " | " | " | " | " | |
| Sodium | 71.2 | 0.0500 | | " | " | " | " | " | " | |

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Markus (Backgrounds)
 Project Number: UWRWE-A3314-ABN
 Project Manager: Paul Henchan

Reported:
 06/21/24 07:55

BKG05@6.0"
2406142-13 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 2.03 | 0.00100 | units | 1 | BHF0611 | 06/20/24 | 06/20/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 76.7 | | % | 1 | BHF0341 | 06/12/24 | 06/12/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.546 | 0.0100 | mmhos/cm | 1 | BHF0436 | 06/14/24 | 06/17/24 | EPA 120.1 | |

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

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.52 | | pH Units | 1 | BHF0437 | 06/14/24 | 06/17/24 | EPA 9045D | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
06/21/24 07:55

BKG05@4.0'
2406142-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Boron | ND | 2.00 | mg/L | 1 | BHF0340 | 06/12/24 | 06/15/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------|--------------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 0.462 | 0.181 | mg/kg dry | 1 | BHF0360 | 06/13/24 | 06/18/24 | EPA 6020B | |
| Barium | 12.6 | 0.362 | " | " | " | " | " | " | |
| Cadmium | ND | 0.181 | " | " | " | " | " | " | |
| Copper | 0.686 | 0.362 | " | " | " | " | " | " | |
| Lead | 1.34 | 0.181 | " | " | " | " | " | " | |
| Nickel | 0.801 | 0.362 | " | " | " | " | " | " | |
| Silver | ND | 0.0181 | " | " | " | " | " | " | |
| Zinc | 4.11 | 0.362 | " | " | " | " | " | " | |
| Selenium | ND | 0.236 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHF0345 | 06/12/24 | 06/13/24 | EPA 7196A | |

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

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------|-------------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Calcium | 28.6 | 0.0500 | mg/L dry | 1 | BHF0435 | 06/14/24 | 06/19/24 | EPA 6020B | |
| Magnesium | 14.3 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 42.0 | 0.0500 | " | " | " | " | " | " | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
06/21/24 07:55

BKG05@4.0'
2406142-14 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 1.60 | 0.00100 | units | 1 | BHF0611 | 06/20/24 | 06/20/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 82.8 | | % | 1 | BHF0341 | 06/12/24 | 06/12/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.343 | 0.0100 | mmhos/cm | 1 | BHF0436 | 06/14/24 | 06/17/24 | EPA 120.1 | |

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

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.38 | | pH Units | 1 | BHF0437 | 06/14/24 | 06/17/24 | EPA 9045D | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
06/21/24 07:55

BKG05@5.0'
2406142-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Boron | ND | 2.00 | | mg/L | 1 | BHF0340 | 06/12/24 | 06/15/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|--|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Arsenic | 1.32 | 0.200 | | mg/kg dry | 1 | BHF0360 | 06/13/24 | 06/18/24 | EPA 6020B | |
| Barium | 64.3 | 0.400 | | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | | " | " | " | " | " | " | |
| Copper | 3.68 | 0.400 | | " | " | " | " | " | " | |
| Lead | 5.66 | 0.200 | | " | " | " | " | " | " | |
| Nickel | 2.10 | 0.400 | | " | " | " | " | " | " | |
| Silver | 0.0367 | 0.0200 | | " | " | " | " | " | " | |
| Zinc | 14.8 | 0.400 | | " | " | " | " | " | " | |
| Selenium | 1.35 | 0.260 | | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|--|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | | mg/kg dry | 1 | BHF0345 | 06/12/24 | 06/13/24 | EPA 7196A | |

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

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Calcium | 68.8 | 0.0500 | | mg/L dry | 1 | BHF0435 | 06/14/24 | 06/19/24 | EPA 6020B | |
| Magnesium | 24.9 | 0.0500 | | " | " | " | " | " | " | |
| Sodium | 71.7 | 0.0500 | | " | " | " | " | " | " | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
06/21/24 07:55

BKG05@5.0'
2406142-15 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|-------------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 1.88 | 0.00100 | units | 1 | BHF0611 | 06/20/24 | 06/20/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|-------------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 90.6 | | % | 1 | BHF0341 | 06/12/24 | 06/12/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.614 | 0.0100 | mmhos/cm | 1 | BHF0436 | 06/14/24 | 06/17/24 | EPA 120.1 | |

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

Date Sampled: **06/11/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.23 | | pH Units | 1 | BHF0437 | 06/14/24 | 06/17/24 | EPA 9045D | |

Summit Scientific

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 PO Box 1289
 Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
 Project Manager: Paul Henchan

Reported:
 06/21/24 07:55

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

Summit Scientific

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

Batch BHF0340 - EPA 3050B

Blank (BHF0340-BLK1)

Prepared: 06/12/24 Analyzed: 06/14/24

Boron ND 2.00 mg/L

LCS (BHF0340-BS1)

Prepared: 06/12/24 Analyzed: 06/15/24

Boron 4.84 2.00 mg/L 5.00 96.7 80-120

Duplicate (BHF0340-DUP1)

Source: 2406142-01

Prepared: 06/12/24 Analyzed: 06/15/24

Boron 0.877 2.00 mg/L 0.883 0.672 20

Matrix Spike (BHF0340-MS1)

Source: 2406142-01

Prepared: 06/12/24 Analyzed: 06/15/24

Boron 6.20 2.00 mg/L 5.00 0.883 106 75-125

Matrix Spike Dup (BHF0340-MSD1)

Source: 2406142-01

Prepared: 06/12/24 Analyzed: 06/15/24

Boron 6.35 2.00 mg/L 5.00 0.883 109 75-125 2.42 25

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
06/21/24 07:55

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 BHF0360 - EPA 3050B

Blank (BHF0360-BLK1)

Prepared: 06/13/24 Analyzed: 06/18/24

| | | | | | | | | | | |
|----------|----|--------|-----------|--|--|--|--|--|--|--|
| 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 | " | | | | | | | |
| Silver | ND | 0.0200 | " | | | | | | | |
| Zinc | ND | 0.400 | " | | | | | | | |
| Selenium | ND | 0.260 | " | | | | | | | |

LCS (BHF0360-BS1)

Prepared: 06/13/24 Analyzed: 06/18/24

| | | | | | | | |
|----------|------|--------|-----------|------|--|------|--------|
| Arsenic | 40.7 | 0.200 | mg/kg wet | 40.0 | | 102 | 80-120 |
| Barium | 39.9 | 0.400 | " | 40.0 | | 99.7 | 80-120 |
| Cadmium | 1.96 | 0.200 | " | 2.00 | | 97.9 | 80-120 |
| Copper | 39.9 | 0.400 | " | 40.0 | | 99.6 | 80-120 |
| Lead | 18.6 | 0.200 | " | 20.0 | | 93.2 | 80-120 |
| Nickel | 39.9 | 0.400 | " | 40.0 | | 99.6 | 80-120 |
| Silver | 1.95 | 0.0200 | " | 2.00 | | 97.4 | 80-120 |
| Zinc | 39.8 | 0.400 | " | 40.0 | | 99.5 | 80-120 |
| Selenium | 3.79 | 0.260 | " | 4.00 | | 94.8 | 80-120 |

Duplicate (BHF0360-DUP1)

Source: 2406141-01

Prepared: 06/13/24 Analyzed: 06/18/24

| | | | | | | | | |
|----------|--------|--------|-----------|--|--------|--|-------|----|
| Arsenic | 2.10 | 0.200 | mg/kg dry | | 1.42 | | 38.2 | 20 |
| Barium | 336 | 0.400 | " | | 253 | | 28.2 | 20 |
| Cadmium | 0.203 | 0.200 | " | | 0.203 | | 0.117 | 20 |
| Copper | 4.49 | 0.400 | " | | 4.57 | | 1.64 | 20 |
| Lead | 12.0 | 0.200 | " | | 8.52 | | 34.2 | 20 |
| Nickel | 3.48 | 0.400 | " | | 3.37 | | 3.15 | 20 |
| Silver | 0.0527 | 0.0200 | " | | 0.0475 | | 10.3 | 20 |
| Zinc | 30.2 | 0.400 | " | | 21.1 | | 35.4 | 20 |
| Selenium | 1.17 | 0.260 | " | | 1.24 | | 6.38 | 20 |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
06/21/24 07:55

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 BHF0360 - EPA 3050B

Matrix Spike (BHF0360-MS1)

Source: 2406141-01

Prepared: 06/13/24 Analyzed: 06/18/24

| | | | | | | | | | | |
|----------|------|--------|-----------|------|--------|------|--------|--|--|--|
| Arsenic | 44.0 | 0.200 | mg/kg dry | 42.3 | 1.42 | 101 | 75-125 | | | |
| Barium | 254 | 0.400 | " | 42.3 | 253 | 3.36 | 75-125 | | | |
| Cadmium | 2.27 | 0.200 | " | 2.11 | 0.203 | 97.7 | 75-125 | | | |
| Copper | 30.5 | 0.400 | " | 42.3 | 4.57 | 61.3 | 75-125 | | | |
| Lead | 32.2 | 0.200 | " | 21.1 | 8.52 | 112 | 75-125 | | | |
| Nickel | 29.6 | 0.400 | " | 42.3 | 3.37 | 62.1 | 75-125 | | | |
| Silver | 2.07 | 0.0200 | " | 2.11 | 0.0475 | 95.9 | 75-125 | | | |
| Zinc | 50.4 | 0.400 | " | 42.3 | 21.1 | 69.2 | 75-125 | | | |
| Selenium | 3.99 | 0.260 | " | 4.23 | 1.24 | 65.0 | 75-125 | | | |

Matrix Spike Dup (BHF0360-MSD1)

Source: 2406141-01

Prepared: 06/13/24 Analyzed: 06/18/24

| | | | | | | | | | |
|----------|------|--------|-----------|------|--------|------|--------|-------|----|
| Arsenic | 44.3 | 0.200 | mg/kg dry | 42.0 | 1.42 | 102 | 75-125 | 0.637 | 25 |
| Barium | 541 | 0.400 | " | 42.0 | 253 | 688 | 75-125 | 72.2 | 25 |
| Cadmium | 2.24 | 0.200 | " | 2.10 | 0.203 | 97.3 | 75-125 | 1.01 | 25 |
| Copper | 31.6 | 0.400 | " | 42.0 | 4.57 | 64.5 | 75-125 | 3.75 | 25 |
| Lead | 42.5 | 0.200 | " | 21.0 | 8.52 | 162 | 75-125 | 27.4 | 25 |
| Nickel | 31.3 | 0.400 | " | 42.0 | 3.37 | 66.6 | 75-125 | 5.51 | 25 |
| Silver | 2.07 | 0.0200 | " | 2.10 | 0.0475 | 96.4 | 75-125 | 0.200 | 25 |
| Zinc | 53.2 | 0.400 | " | 42.0 | 21.1 | 76.4 | 75-125 | 5.46 | 25 |
| Selenium | 4.09 | 0.260 | " | 4.20 | 1.24 | 67.9 | 75-125 | 2.57 | 25 |

Post Spike (BHF0360-PS1)

Source: 2406141-01

Prepared: 06/13/24 Analyzed: 06/18/24

| | | | | | | | | | |
|----------|------|--|------|------|-------|------|--------|--|--|
| Arsenic | 116 | | ug/l | 100 | 3.42 | 112 | 75-125 | | |
| Barium | 724 | | " | 100 | 607 | 117 | 75-125 | | |
| Cadmium | 5.70 | | " | 5.00 | 0.488 | 104 | 75-125 | | |
| Copper | 67.8 | | " | 100 | 11.0 | 56.8 | 75-125 | | |
| Lead | 62.7 | | " | 50.0 | 20.5 | 84.5 | 75-125 | | |
| Nickel | 65.5 | | " | 100 | 8.10 | 57.4 | 75-125 | | |
| Silver | 5.27 | | " | 5.00 | 0.114 | 103 | 75-125 | | |
| Zinc | 109 | | " | 100 | 50.7 | 58.3 | 75-125 | | |
| Selenium | 11.6 | | " | 10.0 | 2.98 | 85.8 | 75-125 | | |

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
 Project Manager: Paul Henchan

Reported:
 06/21/24 07:55

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHF0345 - 3060A Mod

| | | | | | | | | | | |
|--|------|---------------------------------------|-----------|---------------------------------------|----|------|--------|------|----|--|
| Blank (BHF0345-BLK1) | | Prepared: 06/12/24 Analyzed: 06/13/24 | | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg wet | | | | | | | |
| LCS (BHF0345-BS1) | | Prepared: 06/12/24 Analyzed: 06/13/24 | | | | | | | | |
| Chromium, Hexavalent | 25.3 | 0.30 | mg/kg wet | 25.0 | | 101 | 80-120 | | | |
| Duplicate (BHF0345-DUP1) | | Source: 2406142-01 | | Prepared: 06/12/24 Analyzed: 06/13/24 | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | | ND | | | | 20 | |
| Matrix Spike (BHF0345-MS1) | | Source: 2406142-01 | | Prepared: 06/12/24 Analyzed: 06/13/24 | | | | | | |
| Chromium, Hexavalent | 27.9 | 0.30 | mg/kg dry | 28.4 | ND | 98.2 | 75-125 | | | |
| Matrix Spike Dup (BHF0345-MSD1) | | Source: 2406142-01 | | Prepared: 06/12/24 Analyzed: 06/13/24 | | | | | | |
| Chromium, Hexavalent | 28.3 | 0.30 | mg/kg dry | 27.0 | ND | 105 | 75-125 | 1.67 | 20 | |

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
 Project Manager: Paul Henchan

Reported:
 06/21/24 07:55

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 BHF0435 - General Preparation

Blank (BHF0435-BLK1)

Prepared: 06/14/24 Analyzed: 06/19/24

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

LCS (BHF0435-BS1)

Prepared: 06/14/24 Analyzed: 06/19/24

| | | | | | | | | | | |
|-----------|------|--------|----------|------|-----|--------|--|--|--|--|
| Calcium | 5.49 | 0.0500 | mg/L wet | 5.00 | 110 | 70-130 | | | | |
| Magnesium | 5.28 | 0.0500 | " | 5.00 | 106 | 70-130 | | | | |
| Sodium | 5.19 | 0.0500 | " | 5.00 | 104 | 70-130 | | | | |

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 PO Box 1289
 Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
 Project Manager: Paul Henchan

Reported:
 06/21/24 07:55

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 BHF0341 - General Preparation

Duplicate (BHF0341-DUP2)

Source: 2406140-08

Prepared & Analyzed: 06/12/24

| | | | | | | | | | | |
|----------|------|--|---|--|------|--|--|-------|----|--|
| % Solids | 95.3 | | % | | 95.7 | | | 0.481 | 20 | |
|----------|------|--|---|--|------|--|--|-------|----|--|

Summit Scientific

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 Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
 Project Manager: Paul Henchan

Reported:
 06/21/24 07:55

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 BHF0436 - General Preparation

Blank (BHF0436-BLK1)

Prepared: 06/14/24 Analyzed: 06/17/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHF0436-BS1)

Prepared: 06/14/24 Analyzed: 06/17/24

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 102 95-105

Duplicate (BHF0436-DUP1)

Source: 2406142-01

Prepared: 06/14/24 Analyzed: 06/17/24

Specific Conductance (EC) 2.14 0.0100 mmhos/cm 2.14 0.0466 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
 Project Manager: Paul Henchan

Reported:
 06/21/24 07:55

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 BHF0437 - General Preparation

LCS (BHF0437-BS1)

Prepared: 06/14/24 Analyzed: 06/17/24

| | | | | | |
|----|------|----------|------|-----|--------|
| pH | 9.21 | pH Units | 9.18 | 100 | 95-105 |
|----|------|----------|------|-----|--------|

Duplicate (BHF0437-DUP1)

Source: 2406142-01

Prepared: 06/14/24 Analyzed: 06/17/24

| | | | | | |
|----|------|----------|------|-------|----|
| pH | 9.09 | pH Units | 9.11 | 0.220 | 20 |
|----|------|----------|------|-------|----|

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Markus (Backgrounds)

Project Number: UWRWE-A3314-ABN
Project Manager: Paul Henchan

Reported:
06/21/24 07:55

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