

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 04, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Howard A27-5
Work Order #2312160

Enclosed are the results of analyses for samples received by Summit Scientific on 12/07/23 16:30. 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 small "w" at the end of the last name.

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Howard A27-5

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/04/24 11:50

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| FL02 5FT | 2312160-01 | Soil | 12/04/23 10:15 | 12/07/23 16:30 |

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

Lab ID
2312160
Page **1** of **1**

| | | |
|---|--|---|
| Send Data To: | | Send Invoice To: |
| Client: Fremont Environmental Inc. | Project Manager: Paul Henehan | Company: Noble Energy Inc. |
| Address: 8305 6th Steet | E-Mail: Fremont Distribution List: PaulH, EthanB, JeffG, ChrisL, StanG, etc. | Project Name/Location: Howard A27-5 |
| City/State/Zip: Wellington, CO, 80549 | @fremontenv.com | AFE#: |
| Phone: (970) 213-7488 | Project Name: Howard A27-5 | PO/Billing Codes: UWRWE - A744 - ABN |
| Sampler Name: Chris Lattes (chris@fremontenv.com) | Project Number: | Contact: Dan Peterson |

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative | | | | Matrix | | Air-Canister # | Other | Analysis Requested | | | | | | Special Instructions |
|----|--------------------|--------------|--------------|-----------------|--------------|------|------|-------|--------|------|----------------|-------|--------------------|------------------------|-------|--------------------|------------------|------------------------|----------------------|
| | | | | | HCl | HNO3 | None | Other | Water | Soil | | | TPH (GRO/DRO/ORO) | BTEX, TMB's, Naphtlene | PAH's | pH, EC, SAR, Boron | Table 915 Metals | TDS, Chloride, Sulfate | |
| 1 | FL02 @ | | | | | | | | | | | | | | | | | | |
| 2 | FL02 5 A | 12/4/23 | 10:15 | 2 | | | X | | | X | | X | X | X | X | | | | |
| 3 | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | |

| | | | | | | |
|--------------------------------------|---------------------------------|---------------------------------|--------------------------------|-------------------|---|---------------------------|
| Relinquished by: Chris Lattes | Date/Time: 9:20 12/7/23 | Received by: 52 | Date/Time: 9:20 12/7/23 | TAT Business Days | Field DO | Notes: Flowline |
| | | | | Same Day | Field EC | |
| Relinquished by: 52 | Date/Time: 12723 1030 | Received by: [Signature] | Date/Time: 12723 1030 | 1 Day | Field ORP | |
| | | | | 2 Days | Field pH | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 3 Days | Field Temp. | |
| | | | | Standard | <input checked="" type="checkbox"/> Field Turb. | |
| Temperature Upon Receipt: 8.8 | Corrected Temperature: 8 | IR gun #: | | HNO3 lot #: | | |

S₂

Sample Receipt Checklist

S2 Work Order# 2312160

Client: Fremont

Client Project ID: Howard A27-S

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

Airbill #: _____

Matrix (Check all that apply)

Air

Soil/Solid

Water

Other

Temp (°C)

Thermometer #

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

Additional Comments (if any):

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

AS

Custodian Printed Name

12/7/23

Date/Time

0200



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Howard A27-5

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/04/24 11:50

FL02 5FT
2312160-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/04/23 10:15**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BGL0494 | 12/13/23 | 12/14/23 | EPA 8260B | |
| Toluene | ND | 0.0050 | | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | | " | " | " | " | " | " | |

Date Sampled: **12/04/23 10:15**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0568 | 142 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0420 | 105 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0434 | 109 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/04/23 10:15**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BGL0497 | 12/13/23 | 12/16/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **12/04/23 10:15**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: o-Terphenyl | 12.0 | 95.9 % | | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

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PO Box 1289
Wellington CO, 80549

Project: Noble - Howard A27-5

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/04/24 11:50

FL02 5FT
2312160-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/04/23 10:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BGL0590 | 12/15/23 | 12/16/23 | EPA 8270D SIM | |
| Anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Chrysene | ND | 0.00500 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluorene | ND | 0.00500 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| 1-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |

Date Sampled: **12/04/23 10:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0151 | 45.3 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0161 | 48.2 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/04/23 10:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BGL0682 | 12/19/23 | 12/21/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **12/04/23 10:15**

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

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Howard A27-5

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/04/24 11:50

FL02 5FT
2312160-01 (Soil)

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Total Metals by EPA 6020B

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 3.89 | 0.200 | mg/kg dry | 1 | BGL0500 | 12/13/23 | 12/20/23 | EPA 6020B | |
| Barium | 548 | 0.400 | " | " | " | " | " | " | |
| Cadmium | 0.798 | 0.200 | " | " | " | " | " | " | |
| Copper | 5.20 | 0.400 | " | " | " | " | " | " | |
| Lead | 9.81 | 0.200 | " | " | " | " | " | " | |
| Nickel | 18.2 | 0.400 | " | " | " | " | " | " | |
| Silver | 0.0343 | 0.0200 | " | " | " | " | " | " | |
| Zinc | 19.8 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/04/23 10:15

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BGL0544 | 12/14/23 | 12/14/23 | EPA 7196A | |

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

Date Sampled: 12/04/23 10:15

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 13.0 | 0.0500 | mg/L dry | 1 | BGL0935 | 12/27/23 | 01/03/24 | EPA 6020B | |
| Magnesium | 3.94 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 25.4 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: 12/04/23 10:15

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 1.58 | 0.00100 | units | 1 | BHA0101 | 01/03/24 | 01/03/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 12/04/23 10:15

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

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 Wellington CO, 80549

Project: Noble - Howard A27-5

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/04/24 11:50

FL02 5FT
2312160-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

| | | | | | | | |
|----------|------|---|---|---------|----------|----------|-------------|
| % Solids | 92.1 | % | 1 | BGL0640 | 12/18/23 | 12/18/23 | Calculation |
|----------|------|---|---|---------|----------|----------|-------------|

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/04/23 10:15**


| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.204 | 0.0100 | mmhos/cm | 1 | BGL1062 | 12/29/23 | 12/29/23 | EPA 120.1 | |

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

Date Sampled: **12/04/23 10:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 9.08 | | pH Units | 1 | BGL1059 | 12/29/23 | 12/29/23 | EPA 9045D | |

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Project: Noble - Howard A27-5

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/04/24 11:50

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 BGL0494 - EPA 5030 Soil MS

Blank (BGL0494-BLK1)

Prepared & Analyzed: 12/13/23

| | | | | | | | | | | |
|---|--------|--------|-------|--------|--|-----|--------|--|--|--|
| Benzene | ND | 0.0020 | mg/kg | | | | | | | |
| Toluene | ND | 0.0050 | " | | | | | | | |
| Ethylbenzene | ND | 0.0050 | " | | | | | | | |
| Xylenes (total) | ND | 0.010 | " | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | " | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | " | | | | | | | |
| Naphthalene | ND | 0.0038 | " | | | | | | | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | | | | | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0519 | | " | 0.0400 | | 130 | 50-150 | | | |
| <i>Surrogate: Toluene-d8</i> | 0.0439 | | " | 0.0400 | | 110 | 50-150 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0426 | | " | 0.0400 | | 106 | 50-150 | | | |

LCS (BGL0494-BS1)

Prepared & Analyzed: 12/13/23

| | | | | | | | | | | |
|---|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene | 0.115 | 0.0020 | mg/kg | 0.100 | | 115 | 70-130 | | | |
| Toluene | 0.129 | 0.0050 | " | 0.100 | | 129 | 70-130 | | | |
| Ethylbenzene | 0.124 | 0.0050 | " | 0.100 | | 124 | 70-130 | | | |
| m,p-Xylene | 0.246 | 0.010 | " | 0.200 | | 123 | 70-130 | | | |
| o-Xylene | 0.122 | 0.0050 | " | 0.100 | | 122 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.123 | 0.0050 | " | 0.100 | | 123 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.128 | 0.0050 | " | 0.100 | | 128 | 70-130 | | | |
| Naphthalene | 0.0996 | 0.0038 | " | 0.100 | | 99.6 | 70-130 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0551 | | " | 0.0400 | | 138 | 50-150 | | | |
| <i>Surrogate: Toluene-d8</i> | 0.0435 | | " | 0.0400 | | 109 | 50-150 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0423 | | " | 0.0400 | | 106 | 50-150 | | | |

Matrix Spike (BGL0494-MS1)

Source: 2312101-06

Prepared & Analyzed: 12/13/23

| | | | | | | | | | | |
|---|--------|--------|-------|--------|---------|------|--------|--|--|-------|
| Benzene | 0.120 | 0.0020 | mg/kg | 0.100 | ND | 120 | 70-130 | | | |
| Toluene | 0.132 | 0.0050 | " | 0.100 | ND | 132 | 70-130 | | | QM-07 |
| Ethylbenzene | 0.123 | 0.0050 | " | 0.100 | ND | 123 | 70-130 | | | |
| m,p-Xylene | 0.248 | 0.010 | " | 0.200 | ND | 124 | 70-130 | | | |
| o-Xylene | 0.121 | 0.0050 | " | 0.100 | ND | 121 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.123 | 0.0050 | " | 0.100 | ND | 123 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.128 | 0.0050 | " | 0.100 | ND | 128 | 70-130 | | | |
| Naphthalene | 0.102 | 0.0038 | " | 0.100 | 0.00348 | 98.1 | 70-130 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0561 | | " | 0.0400 | | 140 | 50-150 | | | |
| <i>Surrogate: Toluene-d8</i> | 0.0436 | | " | 0.0400 | | 109 | 50-150 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0426 | | " | 0.0400 | | 106 | 50-150 | | | |

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Howard A27-5

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/04/24 11:50

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 BGL0494 - EPA 5030 Soil MS

| Matrix Spike Dup (BGL0494-MSD1) | Source: 2312101-06 | | | Prepared & Analyzed: 12/13/23 | | | | | | |
|----------------------------------|--------------------|--------|-------|-------------------------------|---------|------|--------|-------|----|--|
| Benzene | 0.114 | 0.0020 | mg/kg | 0.100 | ND | 114 | 70-130 | 5.45 | 30 | |
| Toluene | 0.127 | 0.0050 | " | 0.100 | ND | 127 | 70-130 | 3.53 | 30 | |
| Ethylbenzene | 0.123 | 0.0050 | " | 0.100 | ND | 123 | 70-130 | 0.366 | 30 | |
| m,p-Xylene | 0.244 | 0.010 | " | 0.200 | ND | 122 | 70-130 | 1.76 | 30 | |
| o-Xylene | 0.119 | 0.0050 | " | 0.100 | ND | 119 | 70-130 | 1.65 | 30 | |
| 1,2,4-Trimethylbenzene | 0.120 | 0.0050 | " | 0.100 | ND | 120 | 70-130 | 2.89 | 30 | |
| 1,3,5-Trimethylbenzene | 0.125 | 0.0050 | " | 0.100 | ND | 125 | 70-130 | 2.04 | 30 | |
| Naphthalene | 0.0988 | 0.0038 | " | 0.100 | 0.00348 | 95.4 | 70-130 | 2.69 | 30 | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0535 | | " | 0.0400 | | 134 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0432 | | " | 0.0400 | | 108 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0421 | | " | 0.0400 | | 105 | 50-150 | | | |

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Howard A27-5

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/04/24 11:50

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 BGL0497 - EPA 3550A

Blank (BGL0497-BLK1)

Prepared: 12/13/23 Analyzed: 12/15/23

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|--|------|--|--------|--|--|--|
| C10-C28 (DRO) | ND | 50 | mg/kg | | | | | | | | |
| C28-C36 (ORO) | ND | 50 | " | | | | | | | | |
| Surrogate: <i>o</i> -Terphenyl | 12.0 | | " | 12.5 | | 95.9 | | 30-150 | | | |

LCS (BGL0497-BS1)

Prepared: 12/13/23 Analyzed: 12/15/23

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|--|------|--|--------|--|--|--|
| C10-C28 (DRO) | 468 | 50 | mg/kg | 500 | | 93.6 | | 70-130 | | | |
| Surrogate: <i>o</i> -Terphenyl | 11.2 | | " | 12.5 | | 89.5 | | 30-150 | | | |

Matrix Spike (BGL0497-MS1)

Source: 2312101-06

Prepared: 12/13/23 Analyzed: 12/15/23

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|------|------|--|--------|--|--|--|
| C10-C28 (DRO) | 455 | 50 | mg/kg | 500 | 45.0 | 81.9 | | 70-130 | | | |
| Surrogate: <i>o</i> -Terphenyl | 9.09 | | " | 12.5 | | 72.7 | | 30-150 | | | |

Matrix Spike Dup (BGL0497-MSD1)

Source: 2312101-06

Prepared: 12/13/23 Analyzed: 12/15/23

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|------|------|--|--------|------|----|--|
| C10-C28 (DRO) | 507 | 50 | mg/kg | 500 | 45.0 | 92.5 | | 70-130 | 11.0 | 20 | |
| Surrogate: <i>o</i> -Terphenyl | 10.8 | | " | 12.5 | | 86.5 | | 30-150 | | | |

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Howard A27-5

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/04/24 11:50

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 BGL0590 - EPA 5030 Soil MS

Blank (BGL0590-BLK1)

Prepared: 12/15/23 Analyzed: 12/16/23

| | | | | | | | | | | |
|---|--------|---------|-------|--------|--|------|--------|--|--|--|
| Acenaphthene | ND | 0.00500 | mg/kg | | | | | | | |
| Anthracene | ND | 0.00500 | " | | | | | | | |
| Benzo (a) anthracene | ND | 0.00500 | " | | | | | | | |
| Benzo (a) pyrene | ND | 0.00500 | " | | | | | | | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | | | | | | | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | | | | | | | |
| Chrysene | ND | 0.00500 | " | | | | | | | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | | | | | | | |
| Fluoranthene | ND | 0.00500 | " | | | | | | | |
| Fluorene | ND | 0.00500 | " | | | | | | | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | | | | | | | |
| Pyrene | ND | 0.00500 | " | | | | | | | |
| 1-Methylnaphthalene | ND | 0.00500 | " | | | | | | | |
| 2-Methylnaphthalene | ND | 0.00500 | " | | | | | | | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | 0.0212 | | " | 0.0333 | | 63.7 | 40-150 | | | |
| <i>Surrogate: Fluoranthene-d10</i> | 0.0297 | | " | 0.0333 | | 89.0 | 40-150 | | | |

LCS (BGL0590-BS1)

Prepared: 12/15/23 Analyzed: 12/16/23

| | | | | | | | | | | |
|---|--------|---------|-------|--------|--|------|--------|--|--|--|
| Acenaphthene | 0.0270 | 0.00500 | mg/kg | 0.0333 | | 81.1 | 31-137 | | | |
| Anthracene | 0.0278 | 0.00500 | " | 0.0333 | | 83.4 | 30-120 | | | |
| Benzo (a) anthracene | 0.0244 | 0.00500 | " | 0.0333 | | 73.3 | 30-120 | | | |
| Benzo (a) pyrene | 0.0189 | 0.00500 | " | 0.0333 | | 56.7 | 30-120 | | | |
| Benzo (b) fluoranthene | 0.0233 | 0.00500 | " | 0.0333 | | 69.8 | 30-120 | | | |
| Benzo (k) fluoranthene | 0.0250 | 0.00500 | " | 0.0333 | | 75.0 | 30-120 | | | |
| Chrysene | 0.0304 | 0.00500 | " | 0.0333 | | 91.3 | 30-120 | | | |
| Dibenz (a,h) anthracene | 0.0291 | 0.00500 | " | 0.0333 | | 87.4 | 30-120 | | | |
| Fluoranthene | 0.0270 | 0.00500 | " | 0.0333 | | 81.0 | 30-120 | | | |
| Fluorene | 0.0238 | 0.00500 | " | 0.0333 | | 71.4 | 30-120 | | | |
| Indeno (1,2,3-cd) pyrene | 0.0296 | 0.00500 | " | 0.0333 | | 88.7 | 30-120 | | | |
| Pyrene | 0.0317 | 0.00500 | " | 0.0333 | | 95.2 | 35-142 | | | |
| 1-Methylnaphthalene | 0.0246 | 0.00500 | " | 0.0333 | | 73.8 | 35-142 | | | |
| 2-Methylnaphthalene | 0.0279 | 0.00500 | " | 0.0333 | | 83.7 | 35-142 | | | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | 0.0245 | | " | 0.0333 | | 73.4 | 40-150 | | | |
| <i>Surrogate: Fluoranthene-d10</i> | 0.0277 | | " | 0.0333 | | 83.1 | 40-150 | | | |

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Howard A27-5

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/04/24 11:50

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 BGL0590 - EPA 5030 Soil MS

Matrix Spike (BGL0590-MS1)

Source: 2312147-01

Prepared: 12/15/23 Analyzed: 12/16/23

| | | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|----|------|--------|--|--|--|
| Acenaphthene | 0.0182 | 0.00500 | mg/kg | 0.0333 | ND | 54.6 | 31-137 | | | |
| Anthracene | 0.0193 | 0.00500 | " | 0.0333 | ND | 58.0 | 30-120 | | | |
| Benzo (a) anthracene | 0.0191 | 0.00500 | " | 0.0333 | ND | 57.2 | 30-120 | | | |
| Benzo (a) pyrene | 0.0137 | 0.00500 | " | 0.0333 | ND | 41.1 | 30-120 | | | |
| Benzo (b) fluoranthene | 0.0163 | 0.00500 | " | 0.0333 | ND | 49.0 | 30-120 | | | |
| Benzo (k) fluoranthene | 0.0173 | 0.00500 | " | 0.0333 | ND | 51.9 | 30-120 | | | |
| Chrysene | 0.0186 | 0.00500 | " | 0.0333 | ND | 55.7 | 30-120 | | | |
| Dibenz (a,h) anthracene | 0.0181 | 0.00500 | " | 0.0333 | ND | 54.3 | 30-120 | | | |
| Fluoranthene | 0.0186 | 0.00500 | " | 0.0333 | ND | 55.7 | 30-120 | | | |
| Fluorene | 0.0171 | 0.00500 | " | 0.0333 | ND | 51.2 | 30-120 | | | |
| Indeno (1,2,3-cd) pyrene | 0.0168 | 0.00500 | " | 0.0333 | ND | 50.5 | 30-120 | | | |
| Pyrene | 0.0203 | 0.00500 | " | 0.0333 | ND | 60.8 | 35-142 | | | |
| 1-Methylnaphthalene | 0.0178 | 0.00500 | " | 0.0333 | ND | 53.4 | 15-130 | | | |
| 2-Methylnaphthalene | 0.0184 | 0.00500 | " | 0.0333 | ND | 55.2 | 15-130 | | | |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0162 | | " | 0.0333 | | 48.6 | 40-150 | | | |
| Surrogate: Fluoranthene-d10 | 0.0186 | | " | 0.0333 | | 55.9 | 40-150 | | | |

Matrix Spike Dup (BGL0590-MSD1)

Source: 2312147-01

Prepared: 12/15/23 Analyzed: 12/16/23

| | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|----|------|--------|-------|----|
| Acenaphthene | 0.0146 | 0.00500 | mg/kg | 0.0333 | ND | 43.8 | 31-137 | 22.0 | 30 |
| Anthracene | 0.0159 | 0.00500 | " | 0.0333 | ND | 47.8 | 30-120 | 19.2 | 30 |
| Benzo (a) anthracene | 0.0156 | 0.00500 | " | 0.0333 | ND | 46.7 | 30-120 | 20.2 | 30 |
| Benzo (a) pyrene | 0.0159 | 0.00500 | " | 0.0333 | ND | 47.6 | 30-120 | 14.7 | 30 |
| Benzo (b) fluoranthene | 0.0145 | 0.00500 | " | 0.0333 | ND | 43.6 | 30-120 | 11.7 | 30 |
| Benzo (k) fluoranthene | 0.0154 | 0.00500 | " | 0.0333 | ND | 46.2 | 30-120 | 11.7 | 30 |
| Chrysene | 0.0151 | 0.00500 | " | 0.0333 | ND | 45.3 | 30-120 | 20.6 | 30 |
| Dibenz (a,h) anthracene | 0.0176 | 0.00500 | " | 0.0333 | ND | 52.9 | 30-120 | 2.61 | 30 |
| Fluoranthene | 0.0157 | 0.00500 | " | 0.0333 | ND | 47.0 | 30-120 | 16.9 | 30 |
| Fluorene | 0.0152 | 0.00500 | " | 0.0333 | ND | 45.7 | 30-120 | 11.3 | 30 |
| Indeno (1,2,3-cd) pyrene | 0.0168 | 0.00500 | " | 0.0333 | ND | 50.4 | 30-120 | 0.133 | 30 |
| Pyrene | 0.0172 | 0.00500 | " | 0.0333 | ND | 51.6 | 35-142 | 16.5 | 30 |
| 1-Methylnaphthalene | 0.0146 | 0.00500 | " | 0.0333 | ND | 43.6 | 15-130 | 20.1 | 50 |
| 2-Methylnaphthalene | 0.0165 | 0.00500 | " | 0.0333 | ND | 49.6 | 15-130 | 10.6 | 50 |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0143 | | " | 0.0333 | | 42.8 | 40-150 | | |
| Surrogate: Fluoranthene-d10 | 0.0154 | | " | 0.0333 | | 46.2 | 40-150 | | |

Summit Scientific

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



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Howard A27-5

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/04/24 11:50

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 | | |

Batch BGL0682 - EPA 3050B

Blank (BGL0682-BLK1)

Prepared: 12/19/23 Analyzed: 12/21/23

Boron ND 2.00 mg/L

LCS (BGL0682-BS1)

Prepared: 12/19/23 Analyzed: 12/21/23

Boron 4.96 2.00 mg/L 5.00 99.1 80-120

Duplicate (BGL0682-DUP1)

Source: 2312141-07

Prepared: 12/19/23 Analyzed: 12/21/23

Boron 0.148 2.00 mg/L 0.149 0.605 20

Matrix Spike (BGL0682-MS1)

Source: 2312141-07

Prepared: 12/19/23 Analyzed: 12/21/23

Boron 5.50 2.00 mg/L 5.00 0.149 107 75-125

Matrix Spike Dup (BGL0682-MSD1)

Source: 2312141-07

Prepared: 12/19/23 Analyzed: 12/21/23

Boron 5.87 2.00 mg/L 5.00 0.149 114 75-125 6.58 25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Howard A27-5

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/04/24 11:50

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGL0500 - EPA 3050B

Blank (BGL0500-BLK1)

Prepared: 12/13/23 Analyzed: 12/20/23

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

LCS (BGL0500-BS1)

Prepared: 12/13/23 Analyzed: 12/20/23

| | | | | | | |
|----------|------|--------|-----------|------|-----|--------|
| Arsenic | 43.7 | 0.200 | mg/kg wet | 40.0 | 109 | 80-120 |
| Barium | 46.8 | 0.400 | " | 40.0 | 117 | 80-120 |
| Cadmium | 2.11 | 0.200 | " | 2.00 | 106 | 80-120 |
| Copper | 41.1 | 0.400 | " | 40.0 | 103 | 80-120 |
| Lead | 21.8 | 0.200 | " | 20.0 | 109 | 80-120 |
| Nickel | 43.5 | 0.400 | " | 40.0 | 109 | 80-120 |
| Silver | 2.12 | 0.0200 | " | 2.00 | 106 | 80-120 |
| Zinc | 41.6 | 0.400 | " | 40.0 | 104 | 80-120 |
| Selenium | 4.34 | 0.260 | " | 4.00 | 108 | 80-120 |

Duplicate (BGL0500-DUP1)

Source: 2312079-01

Prepared: 12/13/23 Analyzed: 12/20/23

| | | | | | | |
|----------|--------|--------|-----------|--------|------|----|
| Arsenic | 1.20 | 0.200 | mg/kg dry | 1.09 | 9.79 | 20 |
| Barium | 59.5 | 0.400 | " | 55.4 | 7.01 | 20 |
| Cadmium | 0.183 | 0.200 | " | 0.174 | 5.37 | 20 |
| Copper | 3.28 | 0.400 | " | 3.38 | 2.98 | 20 |
| Lead | 7.41 | 0.200 | " | 8.60 | 14.9 | 20 |
| Nickel | 2.03 | 0.400 | " | 1.81 | 11.5 | 20 |
| Silver | 0.0235 | 0.0200 | " | 0.0217 | 7.69 | 20 |
| Zinc | 14.4 | 0.400 | " | 16.5 | 13.2 | 20 |
| Selenium | ND | 0.260 | " | ND | | 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 - Howard A27-5

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/04/24 11:50

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 BGL0500 - EPA 3050B

Matrix Spike (BGL0500-MS1)

Source: 2312079-01

Prepared: 12/13/23 Analyzed: 12/20/23

| | | | | | | | | | | | |
|----------|------|--------|-----------|------|--------|------|--------|--|--|--|-------|
| Arsenic | 31.9 | 0.200 | mg/kg dry | 43.5 | 1.09 | 70.8 | 75-125 | | | | QM-07 |
| Barium | 87.9 | 0.400 | " | 43.5 | 55.4 | 74.7 | 75-125 | | | | QM-07 |
| Cadmium | 2.19 | 0.200 | " | 2.17 | 0.174 | 92.8 | 75-125 | | | | |
| Copper | 32.2 | 0.400 | " | 43.5 | 3.38 | 66.2 | 75-125 | | | | QM-07 |
| Lead | 26.5 | 0.200 | " | 21.7 | 8.60 | 82.5 | 75-125 | | | | |
| Nickel | 45.5 | 0.400 | " | 43.5 | 1.81 | 100 | 75-125 | | | | |
| Silver | 2.02 | 0.0200 | " | 2.17 | 0.0217 | 91.8 | 75-125 | | | | |
| Zinc | 42.3 | 0.400 | " | 43.5 | 16.5 | 59.4 | 75-125 | | | | QM-07 |
| Selenium | 4.44 | 0.260 | " | 4.35 | ND | 102 | 75-125 | | | | |

Matrix Spike Dup (BGL0500-MSD1)

Source: 2312079-01

Prepared: 12/13/23 Analyzed: 12/20/23

| | | | | | | | | | | | |
|----------|------|--------|-----------|------|--------|------|--------|-------|----|--|-------|
| Arsenic | 31.7 | 0.200 | mg/kg dry | 43.5 | 1.09 | 70.3 | 75-125 | 0.680 | 25 | | QM-07 |
| Barium | 92.8 | 0.400 | " | 43.5 | 55.4 | 85.9 | 75-125 | 5.40 | 25 | | |
| Cadmium | 2.21 | 0.200 | " | 2.17 | 0.174 | 93.5 | 75-125 | 0.652 | 25 | | |
| Copper | 31.9 | 0.400 | " | 43.5 | 3.38 | 65.5 | 75-125 | 0.911 | 25 | | QM-07 |
| Lead | 27.0 | 0.200 | " | 21.7 | 8.60 | 84.4 | 75-125 | 1.55 | 25 | | |
| Nickel | 47.1 | 0.400 | " | 43.5 | 1.81 | 104 | 75-125 | 3.42 | 25 | | |
| Silver | 2.06 | 0.0200 | " | 2.17 | 0.0217 | 93.6 | 75-125 | 1.96 | 25 | | |
| Zinc | 42.1 | 0.400 | " | 43.5 | 16.5 | 58.9 | 75-125 | 0.471 | 25 | | QM-07 |
| Selenium | 4.31 | 0.260 | " | 4.35 | ND | 99.0 | 75-125 | 2.93 | 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 - Howard A27-5

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/04/24 11:50

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGL0544 - 3060A Mod

Blank (BGL0544-BLK1)

Prepared & Analyzed: 12/14/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGL0544-BS1)

Prepared & Analyzed: 12/14/23

Chromium, Hexavalent 23.6 0.30 mg/kg wet 25.0 94.6 80-120

Duplicate (BGL0544-DUP1)

Source: 2312156-01

Prepared & Analyzed: 12/14/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGL0544-MS1)

Source: 2312156-01

Prepared & Analyzed: 12/14/23

Chromium, Hexavalent 25.5 0.30 mg/kg dry 28.7 ND 88.8 75-125

Matrix Spike Dup (BGL0544-MSD1)

Source: 2312156-01

Prepared & Analyzed: 12/14/23

Chromium, Hexavalent 25.3 0.30 mg/kg dry 28.7 ND 88.4 75-125 0.451 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 - Howard A27-5

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/04/24 11:50

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 BGL0935 - General Preparation

Blank (BGL0935-BLK1)

Prepared: 12/27/23 Analyzed: 01/03/24


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

LCS (BGL0935-BS1)

Prepared: 12/27/23 Analyzed: 01/03/24

| | | | | | | | | | | |
|-----------|------|--------|----------|------|-----|--------|--|--|--|--|
| Calcium | 6.03 | 0.0500 | mg/L wet | 5.00 | 121 | 70-130 | | | | |
| Magnesium | 5.17 | 0.0500 | " | 5.00 | 103 | 70-130 | | | | |
| Sodium | 5.90 | 0.0500 | " | 5.00 | 118 | 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 - Howard A27-5

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/04/24 11:50

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

Summit Scientific

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

Batch BGL0640 - General Preparation

Duplicate (BGL0640-DUP1)

Source: 2312139-01

Prepared & Analyzed: 12/18/23

| | | | | | | | | | | |
|----------|------|--|---|--|------|--|--|------|----|--|
| % Solids | 76.9 | | % | | 78.4 | | | 1.95 | 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 - Howard A27-5

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/04/24 11:50

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 BGL1062 - General Preparation

Blank (BGL1062-BLK1)

Prepared & Analyzed: 12/29/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGL1062-BS1)

Prepared & Analyzed: 12/29/23

Specific Conductance (EC) 0.150 0.0100 mmhos/cm 0.150 100 95-105


Duplicate (BGL1062-DUP1)

Source: 2312147-01

Prepared & Analyzed: 12/29/23

Specific Conductance (EC) 0.160 0.0100 mmhos/cm 0.160 0.375 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 - Howard A27-5

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 01/04/24 11:50

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 BGL1059 - General Preparation

LCS (BGL1059-BS1)

Prepared & Analyzed: 12/29/23

| | | | | | |
|----|------|----------|------|------|--------|
| pH | 9.16 | pH Units | 9.18 | 99.8 | 95-105 |
|----|------|----------|------|------|--------|

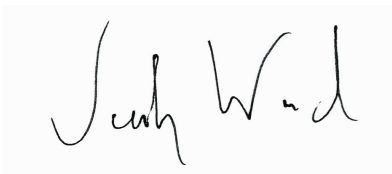
Duplicate (BGL1059-DUP1)

Source: 2312147-01

Prepared & Analyzed: 12/29/23

| | | | | | |
|----|------|----------|------|-------|----|
| pH | 8.78 | pH Units | 8.72 | 0.686 | 20 |
|----|------|----------|------|-------|----|

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Howard A27-5

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/04/24 11:50

Notes and Definitions

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