

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

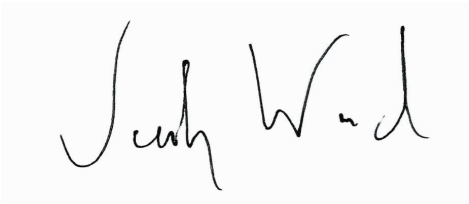
303.277.9310

March 19, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Vega USX A03-05
Work Order #2402445

Enclosed are the results of analyses for samples received by Summit Scientific on 02/26/24 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Vega USX A03-05

Project Number: UWRWE-A2967-ABN

Project Manager: Paul Henchan

Reported:
03/19/24 14:01

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| FL01 3' | 2402445-01 | Soil | 02/23/24 14:55 | 02/26/24 16:30 |
| FL10 3' | 2402445-02 | Soil | 02/26/24 12:45 | 02/26/24 16:30 |

Summit Scientific

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

| | |
|---------|-------------|
| Lab ID | Page 1 of 1 |
| 2402445 | |

| | | |
|-------------------------------|---|-----------------------------------|
| Client: Fremont Environmental | Send Data To: Project Manager: Paul Henehan | Send Invoice To: Company: Noble |
| Address: | E-Mail: Fremont Distribution List | Project Name/Location: |
| City/State/Zip: | | AFE#: |
| Phone: 303-261-6246 | Project Name: Vega USX A03-05 | PO/Billing Codes: WWRWE-A2967-ABN |
| Sampler Name: Stanley Gilbert | Project Number: | Contact: Mike Montoya |

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative | | | | Matrix | | Air-Canister # | Other | Analysis Requested | | | | | | Special Instructions | | | |
|----|--------------------|--------------|--------------|-----------------|--------------|------|------|-------|--------|------|----------------|-------|--------------------|-----|-----------|--------------------|--------------|------------------------|----------------------|------|--|--|
| | | | | | HCl | HNO3 | None | Other | Water | Soil | | | BTEX, TMBs, Naph. | TPH | PAH (915) | EC, SAR, Ph, Boron | Metals (915) | TDS, Chloride, Sulfate | | HOLD | | |
| 1 | FL01 3' | 2/23/24 | 14:55 | 2 | | | X | | | X | | | X | X | X | X | X | | | | | |
| 2 | FL10 3' | 2/26/24 | 12:45 | 2 | | | X | | | X | | | X | X | X | X | X | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | |
|--------------------------------|--------------------------|---------------------------|--------------------------|-------------------|---|--------|
| Relinquished by: | Date/Time: 2/26/24 15:30 | Received by: Summit North | Date/Time: 2/26/24 15:30 | TAT Business Days | Field DO | Notes: |
| | | | | Same Day | Field EC | |
| Relinquished by: | Date/Time: 2/26/24 16:30 | Received by: | Date/Time: 2/26/24 16:30 | 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: 13.1 | Corrected Temperature: | IR gun #: 1 | HNO3 lot #: | | | |

S₂

Sample Receipt Checklist

S2 Work Order# 2402445

Client: Fremont Client Project ID: Vega USX A03-05

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

[] [] [] [] []

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

Temp (°C) 13.1 Thermometer # 1

| | Yes | No | N/A | Comments (if any) |
|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| If custody seals are present, are they intact? ⁽¹⁾ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | MZOE |
| 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"/> | no sample times |
| 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

2/26/24
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Vega USX A03-05
Project Number: UWRWE-A2967-ABN
Project Manager: Paul Henchan

Reported:
03/19/24 14:01

FL01 3'
2402445-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/23/24 14:55**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BHB0842 | 02/27/24 | 02/28/24 | 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: **02/23/24 14:55**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0328 | 82.0 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0400 | 100 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0400 | 100 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/23/24 14:55**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BHB0843 | 02/27/24 | 02/28/24 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **02/23/24 14:55**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: o-Terphenyl | 8.80 | 70.4 % | | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Vega USX A03-05

Project Number: UWRWE-A2967-ABN
Project Manager: Paul Henchan

Reported:
03/19/24 14:01

FL01 3'
2402445-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/23/24 14:55**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BHB0880 | 02/28/24 | 02/29/24 | 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: **02/23/24 14:55**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0276 | 82.7 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0218 | 65.4 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/23/24 14:55**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BHC0320 | 03/12/24 | 03/13/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **02/23/24 14:55**

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

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Project: Noble - Vega USX A03-05

Project Number: UWRWE-A2967-ABN
Project Manager: Paul Henchan

Reported:
03/19/24 14:01

FL01 3'
2402445-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 3.55 | 0.200 | mg/kg dry | 1 | BHC0172 | 03/07/24 | 03/07/24 | EPA 6020B | |
| Barium | 56.5 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 3.69 | 0.400 | " | " | " | " | " | " | |
| Lead | 5.69 | 0.200 | " | " | " | " | " | " | |
| Nickel | 3.67 | 0.400 | " | " | " | " | " | " | |
| Silver | 0.0322 | 0.0200 | " | " | " | " | " | " | |
| Zinc | 14.5 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/23/24 14:55**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHC0466 | 03/15/24 | 03/16/24 | EPA 7196A | |

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

Date Sampled: **02/23/24 14:55**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 42.4 | 0.0500 | mg/L dry | 1 | BHC0204 | 03/07/24 | 03/15/24 | EPA 6020B | |
| Magnesium | 9.55 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 11.2 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **02/23/24 14:55**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.404 | 0.00100 | units | 1 | BHC0633 | 03/18/24 | 03/18/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

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 Wellington CO, 80549

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 Project Number: UWRWE-A2967-ABN
 Project Manager: Paul Henchan

Reported:
 03/19/24 14:01

FL01 3'
2402445-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/23/24 14:55**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|-------------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 88.3 | | % | 1 | BHC0210 | 03/08/24 | 03/08/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/23/24 14:55**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.351 | 0.0100 | mmhos/cm | 1 | BHC0205 | 03/07/24 | 03/09/24 | EPA 120.1 | |

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

Date Sampled: **02/23/24 14:55**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.18 | | pH Units | 1 | BHC0206 | 03/07/24 | 03/09/24 | EPA 9045D | |

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Reported:
 03/19/24 14:01

FL10 3'
2402445-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/24 12:45**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BHB0842 | 02/27/24 | 02/28/24 | 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: **02/26/24 12:45**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0329 | 82.3 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0412 | 103 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0412 | 103 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/26/24 12:45**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BHB0843 | 02/27/24 | 02/28/24 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **02/26/24 12:45**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: o-Terphenyl | 10.4 | 83.0 % | | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

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Project Number: UWRWE-A2967-ABN
Project Manager: Paul Henchan

Reported:
03/19/24 14:01

FL10 3'
2402445-02 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **02/26/24 12:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BHB0880 | 02/28/24 | 02/29/24 | 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: **02/26/24 12:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0257 | 77.1 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0236 | 70.9 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/26/24 12:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BHC0320 | 03/12/24 | 03/13/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **02/26/24 12:45**

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

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Project Number: UWRWE-A2967-ABN
Project Manager: Paul Henchan

Reported:
03/19/24 14:01

FL10 3'
2402445-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 2.39 | 0.200 | mg/kg dry | 1 | BHC0172 | 03/07/24 | 03/07/24 | EPA 6020B | |
| Barium | 66.0 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 3.71 | 0.400 | " | " | " | " | " | " | |
| Lead | 5.72 | 0.200 | " | " | " | " | " | " | |
| Nickel | 3.28 | 0.400 | " | " | " | " | " | " | |
| Silver | 0.0337 | 0.0200 | " | " | " | " | " | " | |
| Zinc | 15.3 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **02/26/24 12:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHC0466 | 03/15/24 | 03/16/24 | EPA 7196A | |

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

Date Sampled: **02/26/24 12:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 51.3 | 0.0500 | mg/L dry | 1 | BHC0204 | 03/07/24 | 03/15/24 | EPA 6020B | |
| Magnesium | 13.7 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 27.4 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **02/26/24 12:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.878 | 0.00100 | units | 1 | BHC0633 | 03/18/24 | 03/18/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Vega USX A03-05
 Project Number: UWRWE-A2967-ABN
 Project Manager: Paul Henchan

Reported:
 03/19/24 14:01

FL10 3'
2402445-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/26/24 12:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 91.5 | | % | 1 | BHC0210 | 03/08/24 | 03/08/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/26/24 12:45**

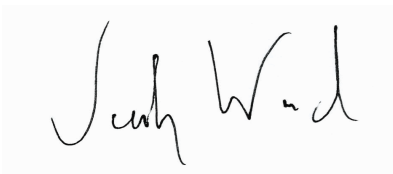
| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.469 | 0.0100 | mmhos/cm | 1 | BHC0205 | 03/07/24 | 03/09/24 | EPA 120.1 | |

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

Date Sampled: **02/26/24 12:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.24 | | pH Units | 1 | BHC0206 | 03/07/24 | 03/09/24 | EPA 9045D | |

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Vega USX A03-05

Project Number: UWRWE-A2967-ABN
Project Manager: Paul Henchan

Reported:
03/19/24 14:01

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 BHB0842 - EPA 5030 Soil MS

Blank (BHB0842-BLK1)

Prepared & Analyzed: 02/27/24

| | | | | | | | | | | |
|---|--------|--------|-------|--------|--|------|--------|--|--|--|
| 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> | 0.0322 | | " | 0.0400 | | 80.4 | 50-150 | | | |
| <i>Surrogate: Toluene-d8</i> | 0.0400 | | " | 0.0400 | | 100 | 50-150 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0393 | | " | 0.0400 | | 98.3 | 50-150 | | | |

LCS (BHB0842-BS1)

Prepared & Analyzed: 02/27/24

| | | | | | | | | | | |
|---|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene | 0.0862 | 0.0020 | mg/kg | 0.100 | | 86.2 | 70-130 | | | |
| Toluene | 0.0904 | 0.0050 | " | 0.100 | | 90.4 | 70-130 | | | |
| Ethylbenzene | 0.0904 | 0.0050 | " | 0.100 | | 90.4 | 70-130 | | | |
| m,p-Xylene | 0.170 | 0.010 | " | 0.200 | | 84.9 | 70-130 | | | |
| o-Xylene | 0.0859 | 0.0050 | " | 0.100 | | 85.9 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.0825 | 0.0050 | " | 0.100 | | 82.5 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.0792 | 0.0050 | " | 0.100 | | 79.2 | 70-130 | | | |
| Naphthalene | 0.110 | 0.0038 | " | 0.100 | | 110 | 70-130 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0309 | | " | 0.0400 | | 77.2 | 50-150 | | | |
| <i>Surrogate: Toluene-d8</i> | 0.0392 | | " | 0.0400 | | 98.0 | 50-150 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0385 | | " | 0.0400 | | 96.2 | 50-150 | | | |

Matrix Spike (BHB0842-MS1)

Source: 2402424-01

Prepared & Analyzed: 02/27/24

| | | | | | | | | | | |
|---|--------|--------|-------|--------|----|------|--------|--|--|-------|
| Benzene | 0.0795 | 0.0020 | mg/kg | 0.100 | ND | 79.5 | 70-130 | | | |
| Toluene | 0.0784 | 0.0050 | " | 0.100 | ND | 78.4 | 70-130 | | | |
| Ethylbenzene | 0.0766 | 0.0050 | " | 0.100 | ND | 76.6 | 70-130 | | | |
| m,p-Xylene | 0.144 | 0.010 | " | 0.200 | ND | 72.1 | 70-130 | | | |
| o-Xylene | 0.0725 | 0.0050 | " | 0.100 | ND | 72.5 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.0689 | 0.0050 | " | 0.100 | ND | 68.9 | 70-130 | | | QM-07 |
| 1,3,5-Trimethylbenzene | 0.0666 | 0.0050 | " | 0.100 | ND | 66.6 | 70-130 | | | QM-07 |
| Naphthalene | 0.0957 | 0.0038 | " | 0.100 | ND | 95.7 | 70-130 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0361 | | " | 0.0400 | | 90.3 | 50-150 | | | |
| <i>Surrogate: Toluene-d8</i> | 0.0409 | | " | 0.0400 | | 102 | 50-150 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0391 | | " | 0.0400 | | 97.8 | 50-150 | | | |

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Vega USX A03-05

Project Number: UWRWE-A2967-ABN
 Project Manager: Paul Henchan

Reported:
 03/19/24 14:01

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHB0842 - EPA 5030 Soil MS

| Matrix Spike Dup (BHB0842-MSD1) | Source: 2402424-01 | | | Prepared & Analyzed: 02/27/24 | | | | | | |
|---|---------------------------|--------|----------|--|----|-------------|---------------|------|----|--|
| Benzene | 0.0867 | 0.0020 | mg/kg | 0.100 | ND | 86.7 | 70-130 | 8.63 | 30 | |
| Toluene | 0.0907 | 0.0050 | " | 0.100 | ND | 90.7 | 70-130 | 14.6 | 30 | |
| Ethylbenzene | 0.0907 | 0.0050 | " | 0.100 | ND | 90.7 | 70-130 | 16.9 | 30 | |
| m,p-Xylene | 0.170 | 0.010 | " | 0.200 | ND | 85.2 | 70-130 | 16.7 | 30 | |
| o-Xylene | 0.0854 | 0.0050 | " | 0.100 | ND | 85.4 | 70-130 | 16.3 | 30 | |
| 1,2,4-Trimethylbenzene | 0.0854 | 0.0050 | " | 0.100 | ND | 85.4 | 70-130 | 21.4 | 30 | |
| 1,3,5-Trimethylbenzene | 0.0820 | 0.0050 | " | 0.100 | ND | 82.0 | 70-130 | 20.8 | 30 | |
| Naphthalene | 0.108 | 0.0038 | " | 0.100 | ND | 108 | 70-130 | 11.7 | 30 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>0.0311</i> | | <i>"</i> | <i>0.0400</i> | | <i>77.7</i> | <i>50-150</i> | | | |
| <i>Surrogate: Toluene-d8</i> | <i>0.0397</i> | | <i>"</i> | <i>0.0400</i> | | <i>99.2</i> | <i>50-150</i> | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>0.0398</i> | | <i>"</i> | <i>0.0400</i> | | <i>99.4</i> | <i>50-150</i> | | | |

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Vega USX A03-05
 Project Number: UWRWE-A2967-ABN
 Project Manager: Paul Henchan

Reported:
 03/19/24 14:01

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 BHB0843 - EPA 3550A

Blank (BHB0843-BLK1)

Prepared: 02/27/24 Analyzed: 02/28/24

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|--|-----|--|--------|--|--|--|
| C10-C28 (DRO) | ND | 50 | mg/kg | | | | | | | | |
| C28-C36 (ORO) | ND | 50 | " | | | | | | | | |
| Surrogate: <i>o</i> -Terphenyl | 16.4 | | " | 12.5 | | 131 | | 30-150 | | | |

LCS (BHB0843-BS1)

Prepared: 02/27/24 Analyzed: 02/28/24

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|--|------|--|--------|--|--|--|
| C10-C28 (DRO) | 470 | 50 | mg/kg | 500 | | 94.0 | | 70-130 | | | |
| Surrogate: <i>o</i> -Terphenyl | 11.5 | | " | 12.5 | | 92.3 | | 30-150 | | | |

Matrix Spike (BHB0843-MS1)

Source: 2402424-01

Prepared: 02/27/24 Analyzed: 02/28/24

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|------|------|--|--------|--|--|--|
| C10-C28 (DRO) | 485 | 50 | mg/kg | 500 | 28.0 | 91.3 | | 70-130 | | | |
| Surrogate: <i>o</i> -Terphenyl | 10.1 | | " | 12.5 | | 80.5 | | 30-150 | | | |

Matrix Spike Dup (BHB0843-MSD1)

Source: 2402424-01

Prepared: 02/27/24 Analyzed: 02/28/24

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|------|------|--|--------|------|----|--|
| C10-C28 (DRO) | 421 | 50 | mg/kg | 500 | 28.0 | 78.5 | | 70-130 | 14.1 | 20 | |
| Surrogate: <i>o</i> -Terphenyl | 8.59 | | " | 12.5 | | 68.7 | | 30-150 | | | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Vega USX A03-05

Project Number: UWRWE-A2967-ABN
Project Manager: Paul Henchan

Reported:
03/19/24 14:01

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 BHB0880 - EPA 5030 Soil MS

Blank (BHB0880-BLK1)

Prepared: 02/28/24 Analyzed: 02/29/24

| | | | | | | | | | | |
|---|---------------|---------|-------|---------------|--|-------------|---------------|--|--|--|
| 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>0.0407</i> | | " | <i>0.0333</i> | | <i>122</i> | <i>40-150</i> | | | |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0324</i> | | " | <i>0.0333</i> | | <i>97.1</i> | <i>40-150</i> | | | |

LCS (BHB0880-BS1)

Prepared: 02/28/24 Analyzed: 02/29/24

| | | | | | | |
|---|---------------|---------|-------|---------------|-------------|---------------|
| Acenaphthene | 0.0389 | 0.00500 | mg/kg | 0.0333 | 117 | 31-137 |
| Anthracene | 0.0352 | 0.00500 | " | 0.0333 | 106 | 30-120 |
| Benzo (a) anthracene | 0.0380 | 0.00500 | " | 0.0333 | 114 | 30-120 |
| Benzo (a) pyrene | 0.0357 | 0.00500 | " | 0.0333 | 107 | 30-120 |
| Benzo (b) fluoranthene | 0.0381 | 0.00500 | " | 0.0333 | 114 | 30-120 |
| Benzo (k) fluoranthene | 0.0377 | 0.00500 | " | 0.0333 | 113 | 30-120 |
| Chrysene | 0.0348 | 0.00500 | " | 0.0333 | 104 | 30-120 |
| Dibenz (a,h) anthracene | 0.0229 | 0.00500 | " | 0.0333 | 68.8 | 30-120 |
| Fluoranthene | 0.0396 | 0.00500 | " | 0.0333 | 119 | 30-120 |
| Fluorene | 0.0401 | 0.00500 | " | 0.0333 | 120 | 30-120 |
| Indeno (1,2,3-cd) pyrene | 0.0225 | 0.00500 | " | 0.0333 | 67.4 | 30-120 |
| Pyrene | 0.0368 | 0.00500 | " | 0.0333 | 110 | 35-142 |
| 1-Methylnaphthalene | 0.0323 | 0.00500 | " | 0.0333 | 96.8 | 35-142 |
| 2-Methylnaphthalene | 0.0401 | 0.00500 | " | 0.0333 | 120 | 35-142 |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0205</i> | | " | <i>0.0333</i> | <i>61.5</i> | <i>40-150</i> |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0282</i> | | " | <i>0.0333</i> | <i>84.6</i> | <i>40-150</i> |

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Vega USX A03-05

Project Number: UWRWE-A2967-ABN
Project Manager: Paul Henchan

Reported:
03/19/24 14:01

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 BHB0880 - EPA 5030 Soil MS

Matrix Spike (BHB0880-MS1)

Source: 2402440-01

Prepared: 02/28/24 Analyzed: 02/29/24

| | | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|----|------|--------|--|--|--|
| Acenaphthene | 0.0256 | 0.00500 | mg/kg | 0.0333 | ND | 76.8 | 31-137 | | | |
| Anthracene | 0.0288 | 0.00500 | " | 0.0333 | ND | 86.3 | 30-120 | | | |
| Benzo (a) anthracene | 0.0277 | 0.00500 | " | 0.0333 | ND | 83.2 | 30-120 | | | |
| Benzo (a) pyrene | 0.0256 | 0.00500 | " | 0.0333 | ND | 76.9 | 30-120 | | | |
| Benzo (b) fluoranthene | 0.0239 | 0.00500 | " | 0.0333 | ND | 71.8 | 30-120 | | | |
| Benzo (k) fluoranthene | 0.0259 | 0.00500 | " | 0.0333 | ND | 77.7 | 30-120 | | | |
| Chrysene | 0.0277 | 0.00500 | " | 0.0333 | ND | 83.2 | 30-120 | | | |
| Dibenz (a,h) anthracene | 0.0197 | 0.00500 | " | 0.0333 | ND | 59.0 | 30-120 | | | |
| Fluoranthene | 0.0277 | 0.00500 | " | 0.0333 | ND | 83.1 | 30-120 | | | |
| Fluorene | 0.0264 | 0.00500 | " | 0.0333 | ND | 79.1 | 30-120 | | | |
| Indeno (1,2,3-cd) pyrene | 0.0187 | 0.00500 | " | 0.0333 | ND | 56.2 | 30-120 | | | |
| Pyrene | 0.0315 | 0.00500 | " | 0.0333 | ND | 94.4 | 35-142 | | | |
| 1-Methylnaphthalene | 0.0211 | 0.00500 | " | 0.0333 | ND | 63.2 | 15-130 | | | |
| 2-Methylnaphthalene | 0.0342 | 0.00500 | " | 0.0333 | ND | 103 | 15-130 | | | |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0172 | | " | 0.0333 | | 51.6 | 40-150 | | | |
| Surrogate: Fluoranthene-d10 | 0.0201 | | " | 0.0333 | | 60.3 | 40-150 | | | |

Matrix Spike Dup (BHB0880-MSD1)

Source: 2402440-01

Prepared: 02/28/24 Analyzed: 02/29/24

| | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|----|------|--------|------|----|
| Acenaphthene | 0.0291 | 0.00500 | mg/kg | 0.0333 | ND | 87.4 | 31-137 | 12.9 | 30 |
| Anthracene | 0.0317 | 0.00500 | " | 0.0333 | ND | 95.2 | 30-120 | 9.80 | 30 |
| Benzo (a) anthracene | 0.0318 | 0.00500 | " | 0.0333 | ND | 95.3 | 30-120 | 13.6 | 30 |
| Benzo (a) pyrene | 0.0291 | 0.00500 | " | 0.0333 | ND | 87.2 | 30-120 | 12.6 | 30 |
| Benzo (b) fluoranthene | 0.0278 | 0.00500 | " | 0.0333 | ND | 83.5 | 30-120 | 15.1 | 30 |
| Benzo (k) fluoranthene | 0.0289 | 0.00500 | " | 0.0333 | ND | 86.8 | 30-120 | 11.0 | 30 |
| Chrysene | 0.0307 | 0.00500 | " | 0.0333 | ND | 92.2 | 30-120 | 10.2 | 30 |
| Dibenz (a,h) anthracene | 0.0226 | 0.00500 | " | 0.0333 | ND | 67.9 | 30-120 | 14.1 | 30 |
| Fluoranthene | 0.0294 | 0.00500 | " | 0.0333 | ND | 88.1 | 30-120 | 5.88 | 30 |
| Fluorene | 0.0298 | 0.00500 | " | 0.0333 | ND | 89.3 | 30-120 | 12.2 | 30 |
| Indeno (1,2,3-cd) pyrene | 0.0214 | 0.00500 | " | 0.0333 | ND | 64.1 | 30-120 | 13.2 | 30 |
| Pyrene | 0.0351 | 0.00500 | " | 0.0333 | ND | 105 | 35-142 | 11.0 | 30 |
| 1-Methylnaphthalene | 0.0222 | 0.00500 | " | 0.0333 | ND | 66.6 | 15-130 | 5.23 | 50 |
| 2-Methylnaphthalene | 0.0302 | 0.00500 | " | 0.0333 | ND | 90.6 | 15-130 | 12.6 | 50 |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0173 | | " | 0.0333 | | 52.0 | 40-150 | | |
| Surrogate: Fluoranthene-d10 | 0.0214 | | " | 0.0333 | | 64.3 | 40-150 | | |

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Vega USX A03-05

Project Number: UWRWE-A2967-ABN
 Project Manager: Paul Henchan

Reported:
 03/19/24 14:01

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 BHC0320 - EPA 3050B

Blank (BHC0320-BLK1)

Prepared: 03/12/24 Analyzed: 03/13/24

Boron ND 2.00 mg/L

LCS (BHC0320-BS1)

Prepared: 03/12/24 Analyzed: 03/13/24

Boron 4.80 2.00 mg/L 5.00 96.1 80-120

Duplicate (BHC0320-DUP1)

Source: 2402438-01

Prepared: 03/12/24 Analyzed: 03/13/24

Boron 0.0962 2.00 mg/L 0.110 13.5 20

Matrix Spike (BHC0320-MS1)

Source: 2402438-01

Prepared: 03/12/24 Analyzed: 03/13/24

Boron 5.07 2.00 mg/L 5.00 0.110 99.1 75-125

Matrix Spike Dup (BHC0320-MSD1)

Source: 2402438-01

Prepared: 03/12/24 Analyzed: 03/13/24

Boron 5.02 2.00 mg/L 5.00 0.110 98.2 75-125 0.901 25

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Vega USX A03-05

Project Number: UWRWE-A2967-ABN
Project Manager: Paul Henchan

Reported:
03/19/24 14:01

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 BHC0172 - EPA 3050B

Blank (BHC0172-BLK1)

Prepared & Analyzed: 03/07/24

| | | | | | | | | | |
|----------|----|--------|-----------|--|--|--|--|--|--|
| 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 (BHC0172-BS1)

Prepared & Analyzed: 03/07/24

| | | | | | | |
|----------|------|--------|-----------|------|------|--------|
| Arsenic | 41.2 | 0.200 | mg/kg wet | 40.0 | 103 | 80-120 |
| Barium | 40.4 | 0.400 | " | 40.0 | 101 | 80-120 |
| Cadmium | 1.93 | 0.200 | " | 2.00 | 96.3 | 80-120 |
| Copper | 38.7 | 0.400 | " | 40.0 | 96.7 | 80-120 |
| Lead | 19.7 | 0.200 | " | 20.0 | 98.3 | 80-120 |
| Nickel | 38.6 | 0.400 | " | 40.0 | 96.6 | 80-120 |
| Silver | 1.94 | 0.0200 | " | 2.00 | 97.0 | 80-120 |
| Zinc | 39.1 | 0.400 | " | 40.0 | 97.7 | 80-120 |
| Selenium | 3.65 | 0.260 | " | 4.00 | 91.2 | 80-120 |

Duplicate (BHC0172-DUP1)

Source: 2402407-01

Prepared & Analyzed: 03/07/24

| | | | | | | |
|----------|--------|--------|-----------|--------|------|----|
| Arsenic | 2.14 | 0.200 | mg/kg dry | 1.88 | 12.7 | 20 |
| Barium | 77.1 | 0.400 | " | 68.9 | 11.3 | 20 |
| Cadmium | 0.195 | 0.200 | " | 0.174 | 11.1 | 20 |
| Copper | 4.32 | 0.400 | " | 4.05 | 6.67 | 20 |
| Lead | 7.62 | 0.200 | " | 5.96 | 24.6 | 20 |
| Nickel | 3.77 | 0.400 | " | 3.41 | 9.99 | 20 |
| Silver | 0.0377 | 0.0200 | " | 0.0321 | 16.0 | 20 |
| Zinc | 17.0 | 0.400 | " | 15.7 | 7.82 | 20 |
| Selenium | ND | 0.260 | " | ND | | 20 |

QR-04

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Vega USX A03-05

Project Number: UWRWE-A2967-ABN
Project Manager: Paul Henchan

Reported:
03/19/24 14:01

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 BHC0172 - EPA 3050B

Matrix Spike (BHC0172-MS1)

Source: 2402407-01

Prepared & Analyzed: 03/07/24

| | | | | | | | | | | | |
|----------|------|--------|-----------|------|--------|------|--------|--|--|--|-------|
| Arsenic | 47.1 | 0.200 | mg/kg dry | 42.9 | 1.88 | 106 | 75-125 | | | | |
| Barium | 115 | 0.400 | " | 42.9 | 68.9 | 107 | 75-125 | | | | |
| Cadmium | 2.40 | 0.200 | " | 2.14 | 0.174 | 104 | 75-125 | | | | |
| Copper | 29.9 | 0.400 | " | 42.9 | 4.05 | 60.3 | 75-125 | | | | QM-05 |
| Lead | 27.6 | 0.200 | " | 21.4 | 5.96 | 101 | 75-125 | | | | |
| Nickel | 29.5 | 0.400 | " | 42.9 | 3.41 | 60.8 | 75-125 | | | | QM-05 |
| Silver | 2.20 | 0.0200 | " | 2.14 | 0.0321 | 101 | 75-125 | | | | |
| Zinc | 42.8 | 0.400 | " | 42.9 | 15.7 | 63.2 | 75-125 | | | | QM-05 |
| Selenium | 4.13 | 0.260 | " | 4.29 | ND | 96.4 | 75-125 | | | | |

Matrix Spike Dup (BHC0172-MSD1)

Source: 2402407-01

Prepared & Analyzed: 03/07/24

| | | | | | | | | | | | |
|----------|------|--------|-----------|------|--------|------|--------|--------|----|--|-------|
| Arsenic | 46.1 | 0.200 | mg/kg dry | 42.9 | 1.88 | 103 | 75-125 | 2.15 | 25 | | |
| Barium | 111 | 0.400 | " | 42.9 | 68.9 | 99.1 | 75-125 | 3.03 | 25 | | |
| Cadmium | 2.30 | 0.200 | " | 2.14 | 0.174 | 99.2 | 75-125 | 4.28 | 25 | | |
| Copper | 29.9 | 0.400 | " | 42.9 | 4.05 | 60.2 | 75-125 | 0.0718 | 25 | | QM-05 |
| Lead | 26.7 | 0.200 | " | 21.4 | 5.96 | 96.8 | 75-125 | 3.32 | 25 | | |
| Nickel | 29.4 | 0.400 | " | 42.9 | 3.41 | 60.6 | 75-125 | 0.239 | 25 | | QM-05 |
| Silver | 2.14 | 0.0200 | " | 2.14 | 0.0321 | 98.2 | 75-125 | 2.77 | 25 | | |
| Zinc | 42.5 | 0.400 | " | 42.9 | 15.7 | 62.6 | 75-125 | 0.643 | 25 | | QM-05 |
| Selenium | 3.96 | 0.260 | " | 4.29 | ND | 92.4 | 75-125 | 4.23 | 25 | | |

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Vega USX A03-05

Project Number: UWRWE-A2967-ABN
 Project Manager: Paul Henchan

Reported:
 03/19/24 14:01

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 BHC0466 - 3060A Mod

Blank (BHC0466-BLK1)

Prepared: 03/15/24 Analyzed: 03/16/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHC0466-BS1)

Prepared: 03/15/24 Analyzed: 03/16/24

Chromium, Hexavalent 21.0 0.30 mg/kg wet 25.0 84.2 80-120

Duplicate (BHC0466-DUP1)

Source: 2402445-01

Prepared: 03/15/24 Analyzed: 03/16/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHC0466-MS1)

Source: 2402445-01

Prepared: 03/15/24 Analyzed: 03/16/24

Chromium, Hexavalent 29.2 0.30 mg/kg dry 28.3 ND 103 75-125

Matrix Spike Dup (BHC0466-MSD1)

Source: 2402445-01

Prepared: 03/15/24 Analyzed: 03/16/24

Chromium, Hexavalent 29.2 0.30 mg/kg dry 28.3 ND 103 75-125 0.00 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Vega USX A03-05

Project Number: UWRWE-A2967-ABN
 Project Manager: Paul Henchan

Reported:
 03/19/24 14:01

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 BHC0204 - General Preparation

Blank (BHC0204-BLK1)

Prepared: 03/07/24 Analyzed: 03/15/24

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

LCS (BHC0204-BS1)

Prepared: 03/07/24 Analyzed: 03/15/24

| | | | | | | | | | | |
|-----------|------|--------|----------|------|--|-----|--------|--|--|--|
| Calcium | 5.36 | 0.0500 | mg/L wet | 5.00 | | 107 | 70-130 | | | |
| Magnesium | 5.52 | 0.0500 | " | 5.00 | | 110 | 70-130 | | | |
| Sodium | 5.53 | 0.0500 | " | 5.00 | | 111 | 70-130 | | | |

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Vega USX A03-05

Project Number: UWRWE-A2967-ABN
 Project Manager: Paul Henchan

Reported:
 03/19/24 14:01

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 BHC0210 - General Preparation

Duplicate (BHC0210-DUP1)

Source: 2402444-01

Prepared & Analyzed: 03/08/24

| | | | | | | | | | | |
|----------|------|--|---|--|------|--|--|-------|----|--|
| % Solids | 92.8 | | % | | 92.5 | | | 0.341 | 20 | |
|----------|------|--|---|--|------|--|--|-------|----|--|

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Vega USX A03-05
 Project Number: UWRWE-A2967-ABN
 Project Manager: Paul Henchan

Reported:
 03/19/24 14:01

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 BHC0205 - General Preparation

Blank (BHC0205-BLK1)

Prepared: 03/07/24 Analyzed: 03/09/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHC0205-BS1)

Prepared: 03/07/24 Analyzed: 03/09/24

Specific Conductance (EC) 0.147 0.0100 mmhos/cm 0.150 98.1 95-105

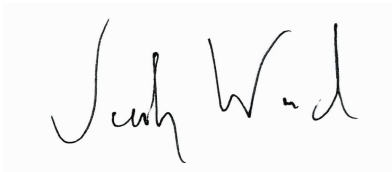
Duplicate (BHC0205-DUP1)

Source: 2402445-01

Prepared: 03/07/24 Analyzed: 03/09/24

Specific Conductance (EC) 0.350 0.0100 mmhos/cm 0.351 0.228 20

Summit Scientific



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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Vega USX A03-05

Project Number: UWRWE-A2967-ABN
 Project Manager: Paul Henchan

Reported:
 03/19/24 14:01

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 BHC0206 - General Preparation

LCS (BHC0206-BS1)

Prepared: 03/07/24 Analyzed: 03/09/24

| | | | | | |
|----|------|----------|------|------|--------|
| pH | 9.07 | pH Units | 9.18 | 98.8 | 95-105 |
|----|------|----------|------|------|--------|

Duplicate (BHC0206-DUP1)

Source: 2402445-01

Prepared: 03/07/24 Analyzed: 03/09/24

| | | | | | |
|----|------|----------|------|------|----|
| pH | 8.09 | pH Units | 8.18 | 1.11 | 20 |
|----|------|----------|------|------|----|

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Vega USX A03-05

Project Number: UWRWE-A2967-ABN
Project Manager: Paul Henchan

Reported:
03/19/24 14:01

Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference