

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 17, 2024

Jacob Whritenour
Tasman Geosciences
6855 W. 119th Ave.
Broomfield, CO 80020
RE: Noble - Vern Marshall 1
Work Order #2401033

Enclosed are the results of analyses for samples received by Summit Scientific on 01/03/24 17:49. 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 long, sweeping underline.

Jacob Wood For Paul Shrewsbury
President



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

Project: Noble - Vern Marshall 1


Project Number: UWRWE-A3126-ABN
 Project Manager: Jacob Whritenour

Reported:
 01/17/24 13:57

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| BH01@4' | 2401033-01 | Soil | 01/03/24 11:10 | 01/03/24 17:49 |
| BH01@8' | 2401033-02 | Soil | 01/03/24 11:15 | 01/03/24 17:49 |
| BH02@4' | 2401033-03 | Soil | 01/03/24 10:02 | 01/03/24 17:49 |
| BH02@8' | 2401033-04 | Soil | 01/03/24 10:12 | 01/03/24 17:49 |
| BH03@4' | 2401033-05 | Soil | 01/03/24 09:14 | 01/03/24 17:49 |
| BH03@8' | 2401033-06 | Soil | 01/03/24 09:26 | 01/03/24 17:49 |
| BH04@4' | 2401033-07 | Soil | 01/03/24 10:43 | 01/03/24 17:49 |
| BH04@8' | 2401033-08 | Soil | 01/03/24 10:49 | 01/03/24 17:49 |
| BH05@4' | 2401033-09 | Soil | 01/03/24 10:51 | 01/03/24 17:49 |
| BH05@8' | 2401033-10 | Soil | 01/03/24 10:59 | 01/03/24 17:49 |
| BG01@4' | 2401033-11 | Soil | 01/03/24 09:30 | 01/03/24 17:49 |
| BG01@8' | 2401033-12 | Soil | 01/03/24 09:45 | 01/03/24 17:49 |
| BG02@4' | 2401033-13 | Soil | 01/03/24 09:20 | 01/03/24 17:49 |
| BG02@8' | 2401033-14 | Soil | 01/03/24 09:35 | 01/03/24 17:49 |
| BG03@4' | 2401033-15 | Soil | 01/03/24 09:41 | 01/03/24 17:49 |
| BG03@8' | 2401033-16 | Soil | 01/03/24 10:05 | 01/03/24 17:49 |
| BG04@4' | 2401033-17 | Soil | 01/03/24 11:27 | 01/03/24 17:49 |
| BG04@8' | 2401033-18 | Soil | 01/03/24 11:32 | 01/03/24 17:49 |
| BG05@4' | 2401033-19 | Soil | 01/03/24 11:15 | 01/03/24 17:49 |
| BG05@8' | 2401033-20 | Soil | 01/03/24 11:32 | 01/03/24 17:49 |

Summit Scientific



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

| | | |
|--------------------------------------|------------------------------------|-------------------------|
| Send Data To: | | Send Invoice To: |
| Client: Noble/Tasman | Project Manager: Jake Whritenour | Company: |
| Address: 6855 W. 119th Ave. | E-Mail: Jwhritenour@tasman-geo.com | Project Name/Location: |
| City/State/Zip: Broomfield/CO/ 80020 | | AFE#: |
| Phone: 937-554-5108 | Project Name: <u>Vern Marshall</u> | PO/Billing Codes: |
| Sampler Name: Molly Parks | Project Number: | Contact: |

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative | | | | Matrix | | | Analysis Requested | | | | | | | Special Instructions | |
|----|--------------------|--------------|--------------|-----------------|--------------|------|------|-------|--------|------|----------------|--------------------|--------------|-----------|-----------|-----------|-------------|-------------|----------------------|--------------------------------|
| | | | | | HCl | HNO3 | None | Other | Water | Soil | Air-Canister # | Other | Metals - 915 | VOC - 915 | TPH - 915 | PAH - 915 | SAR, EC, pH | Boron - HWS | | HOLD |
| 1 | BH01 @ 4' | 1-3-24 | 1110 | 2 | | | X | | | X | | | X | X | X | X | X | | X | SAR, EC, pH by saturated paste |
| 2 | BH01 @ 8' | | 1115 | | | | X | | | X | | | X | X | X | X | | X | | |
| 3 | BH02 @ 4' | | 1002 | | | | X | | | X | | | X | X | X | X | | X | | |
| 4 | BH02 @ 8' | | 1012 | | | | X | | | X | | | X | X | X | X | | X | | |
| 5 | BH03 @ 4' | | 914 | | | | X | | | X | | | X | X | X | X | | X | | |
| 6 | BH03 @ 8' | | 926 | | | | X | | | X | | | X | X | X | X | | X | | |
| 7 | BH04 @ 4' | | 1043 | | | | X | | | X | | | X | X | X | X | | X | | |
| 8 | BH04 @ 8' | | 1049 | | | | X | | | X | | | X | X | X | X | | X | | |
| 9 | BH05 @ 4' | | 1051 | | | | X | | | X | | | X | X | X | X | | X | | |
| 10 | BH05 @ 8' | | 1059 | | | | X | | | X | | | X | X | X | X | | X | | |
| 11 | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | |

| | | | | | | |
|---|---------------------------------|-------------------------------------|-------------------------------|-------------------|-------------|--------|
| Relinquished by: <u>MP</u> | Date/Time: <u>1-3-24/1642</u> | Received by: <u>Tasman Lock Box</u> | Date/Time: <u>1-3-24/1642</u> | TAT Business Days | Field DO | Notes: |
| | | | | Same Day | Field EC | |
| Relinquished by: <u>Tasman Lock Box</u> | Date/Time: <u>1324/1749</u> | Received by: <u>[Signature]</u> | Date/Time: <u>1324/1749</u> | 1 Day | Field ORP | |
| | | | | 2 Days | Field pH | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 3 Days | Field Temp. | |
| | | | | Standard | Field Turb. | |
| Temperature Upon Receipt: <u>94</u> | Corrected Temperature: <u>9</u> | IR gun #: <u>1</u> | HNO3 lot #: | | | |

| | | | | | |
|--------------------------------------|--|--------------------------------------|--|------------------------|--|
| Client: Noble/Tasman | | Project Manager: Jake Whritenour | | Company: | |
| Address: 6855 W. 119th Ave. | | E-Mail: Jwhritenour@tasman-geo.com | | Project Name/Location: | |
| City/State/Zip: Broomfield/CO/ 80020 | | Project Name: <u>Vern Marshall I</u> | | AFE#: | |
| Phone: 937-554-5108 | | Project Number: | | PO/Billing Codes: | |
| Sampler Name: Molly Parks | | | | Contact: | |

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative | | | | Matrix | | Analysis Requested | | | | | | | Special Instructions | | | |
|----|--------------------|--------------|--------------|-----------------|--------------|------|------|-------|--------|------|--------------------|-------|--------------|-----------|-----------|-----------|-------------|----------------------|-------------|------|--------------------------------|
| | | | | | HCl | HNO3 | None | Other | Water | Soil | Air-Canister # | Other | Metals - 915 | VOC - 915 | TPH - 915 | PAH - 915 | SAR, EC, pH | | Boron - HWS | HOLD | Arsenic |
| 1 | 13601@4' | 1-3-24 | 930 | 2 | | | X | | | X | | | | | | X | X | | | | SAR, EC, pH by saturated paste |
| 2 | 13601@8' | | 945 | | | | | | | | | | | | | X | X | | | | |
| 3 | 13602@4' | | 920 | | | | | | | | | | | | | | | | | | |
| 4 | 13602@8' | | 935 | | | | | | | | | | | | | | | | | | |
| 5 | 13603@4' | | 941 | | | | | | | | | | | | | | | | | | |
| 6 | 13603@8' | | 1005 | | | | | | | | | | | | | | | | | | |
| 7 | 13604@4' | | 1127 | | | | | | | | | | | | | | | | | | |
| 8 | 13604@8' | | 1132 | | | | | | | | | | | | | | | | | | |
| 9 | 13605@4' | | 1115 | | | | | | | | | | | | | | | | | | |
| 10 | 13605@8' | | 1132 | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | |
|---|---------------------------------|-------------------------------------|-------------------------------|-------------------|-------------|--------|
| Relinquished by: <u>MD</u> | Date/Time: <u>1-3-24/1624</u> | Received by: <u>Tasman Lock Box</u> | Date/Time: <u>1-3-24/1642</u> | TAT Business Days | Field DO | Notes: |
| | | | | Same Day | Field EC | |
| Relinquished by: <u>Tasman Lock Box</u> | Date/Time: <u>1-3-24/1749</u> | Received by: <u>[Signature]</u> | Date/Time: <u>1-3-24/1749</u> | 1 Day | Field ORP | |
| | | | | 2 Days | Field pH | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 3 Days | Field Temp. | |
| | | | | Standard | Field Turb. | |
| Temperature Upon Receipt: <u>9.4</u> | Corrected Temperature: <u>5</u> | IR gun #: | | HNO3 lot #: | | |

S₂

2/2
Sample Receipt Checklist

S2 Work Order# 2401033

Client: Noble Gasman Client Project ID: Vern Marshall I

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

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

Temp (°C) 9.4 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"/> | OUT OF |
| Are samples due within 48 hours present? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Is a chain-of-custody (COC) form present and filled out Completely? (1) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Is the COC properly relinquished by the client w/ date and time recorded? (1) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were all samples received intact? (1) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was adequate sample volume provided? (1) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Does the COC agree with the number and type of sample bottles received? (1) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Do the sample IDs on the bottle labels match the COC? (1) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| For volatiles in water - is there headspace present? If yes, contact client and note in narrative. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Are samples preserved that require preservation (excluding cooling)? (1) Note the type of preservative in the comments column - HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If samples are acid preserved for metals, is the pH ≤ 2? (1) Record the pH in Comments. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If dissolved metals are requested, were samples field filtered? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Additional Comments (if any): | | | | |
| | | | | |

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

AS
Custodian Printed Name

1/3/24
Date/Time

23



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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BH01@4'
2401033-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/03/24 11:10**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BHA0121 | 01/04/24 | 01/05/24 | 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: **01/03/24 11:10**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0422 | 106 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0429 | 107 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0425 | 106 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/03/24 11:10**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BHA0123 | 01/04/24 | 01/05/24 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **01/03/24 11:10**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: o-Terphenyl | 7.99 | 63.9 % | | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BH01@4'
2401033-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/03/24 11:10**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BHA0116 | 01/04/24 | 01/04/24 | 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: **01/03/24 11:10**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0154 | 46.1 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0165 | 49.4 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/03/24 11:10**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BHA0242 | 01/08/24 | 01/12/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **01/03/24 11:10**

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

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Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BH01@4'
2401033-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| | | | | | | | | |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|
| Arsenic | 1.45 | 0.200 | mg/kg dry | 1 | BHA0210 | 01/05/24 | 01/12/24 | EPA 6020B |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|

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

Date Sampled: **01/03/24 11:10**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 71.8 | 0.0500 | mg/L dry | 1 | BHA0294 | 01/09/24 | 01/16/24 | EPA 6020B | |
| Magnesium | 16.6 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 0.830 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **01/03/24 11:10**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0230 | 0.00100 | units | 1 | BHA0613 | 01/17/24 | 01/17/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/03/24 11:10**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 92.6 | | % | 1 | BHA0204 | 01/05/24 | 01/05/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/03/24 11:10**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.0381 | 0.0100 | mmhos/cm | 1 | BHA0355 | 01/10/24 | 01/10/24 | EPA 120.1 | |

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

Date Sampled: **01/03/24 11:10**

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

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Tasman Geosciences
6855 W. 119th Ave.
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Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BH01@4'
2401033-01 (Soil)

Summit Scientific

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

| | | | | | | | |
|----|------|----------|---|---------|----------|----------|-----------|
| pH | 7.71 | pH Units | 1 | BHA0353 | 01/10/24 | 01/10/24 | EPA 9045D |
|----|------|----------|---|---------|----------|----------|-----------|

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Vern Marshall I
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BH01@8'
2401033-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/03/24 11:15**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BHA0121 | 01/04/24 | 01/05/24 | 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: **01/03/24 11:15**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0394 | 98.5 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0415 | 104 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0412 | 103 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/03/24 11:15**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BHA0123 | 01/04/24 | 01/05/24 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **01/03/24 11:15**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: o-Terphenyl | 6.93 | 55.4 % | | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BH01@8'
2401033-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/03/24 11:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BHA0116 | 01/04/24 | 01/04/24 | 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: **01/03/24 11:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0139 | 41.6 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0157 | 47.0 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/03/24 11:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BHA0242 | 01/08/24 | 01/12/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **01/03/24 11:15**

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

Summit Scientific

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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BH01@8'
2401033-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| | | | | | | | | |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|
| Arsenic | 3.63 | 0.200 | mg/kg dry | 1 | BHA0210 | 01/05/24 | 01/12/24 | EPA 6020B |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|

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

Date Sampled: **01/03/24 11:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 22.3 | 0.0500 | mg/L dry | 1 | BHA0294 | 01/09/24 | 01/16/24 | EPA 6020B | |
| Magnesium | 6.05 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 16.0 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **01/03/24 11:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.776 | 0.00100 | units | 1 | BHA0613 | 01/17/24 | 01/17/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/03/24 11:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 81.2 | | % | 1 | BHA0204 | 01/05/24 | 01/05/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/03/24 11:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.165 | 0.0100 | mmhos/cm | 1 | BHA0355 | 01/10/24 | 01/10/24 | EPA 120.1 | |

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

Date Sampled: **01/03/24 11:15**

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

Summit Scientific

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

Project: Noble - Vern Marshall 1
 Project Number: UWRWE-A3126-ABN
 Project Manager: Jacob Whritenour

Reported:
 01/17/24 13:57

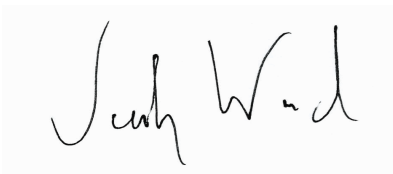
BH01@8'
2401033-02 (Soil)

Summit Scientific

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

| | | | | | | | |
|----|------|----------|---|---------|----------|----------|-----------|
| pH | 8.46 | pH Units | 1 | BHA0353 | 01/10/24 | 01/10/24 | EPA 9045D |
|----|------|----------|---|---------|----------|----------|-----------|

Summit Scientific



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

Project: Noble - Vern Marshall I
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BH02@4'
2401033-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/03/24 10:02**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | ND | 0.0020 | mg/kg | 1 | BHA0121 | 01/04/24 | 01/05/24 | 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: **01/03/24 10:02**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0448 | 112 % | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0425 | 106 % | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0438 | 110 % | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/03/24 10:02**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BHA0123 | 01/04/24 | 01/05/24 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **01/03/24 10:02**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 7.68 | 61.4 % | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BH02@4'
2401033-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/03/24 10:02**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------------|----------------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BHA0116 | 01/04/24 | 01/04/24 | EPA 8270D SIM | |
| Anthracene | 0.00881 | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) anthracene | 0.0111 | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | 0.00815 | 0.00500 | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Chrysene | ND | 0.00500 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluoranthene | 0.0383 | 0.00500 | " | " | " | " | " | " | |
| Fluorene | ND | 0.00500 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Pyrene | 0.0301 | 0.00500 | " | " | " | " | " | " | |
| 1-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |

Date Sampled: **01/03/24 10:02**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0139 | 41.7 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0144 | 43.2 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/03/24 10:02**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BHA0242 | 01/08/24 | 01/12/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **01/03/24 10:02**

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

Summit Scientific

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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BH02@4'
2401033-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| | | | | | | | | |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|
| Arsenic | 3.28 | 0.200 | mg/kg dry | 1 | BHA0210 | 01/05/24 | 01/12/24 | EPA 6020B |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|

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

Date Sampled: **01/03/24 10:02**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 31.8 | 0.0500 | mg/L dry | 1 | BHA0294 | 01/09/24 | 01/16/24 | EPA 6020B | |
| Magnesium | 6.95 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 1.77 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **01/03/24 10:02**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0741 | 0.00100 | units | 1 | BHA0613 | 01/17/24 | 01/17/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/03/24 10:02**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 83.9 | | % | 1 | BHA0204 | 01/05/24 | 01/05/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/03/24 10:02**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.0864 | 0.0100 | mmhos/cm | 1 | BHA0355 | 01/10/24 | 01/10/24 | EPA 120.1 | |

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

Date Sampled: **01/03/24 10:02**

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

Summit Scientific

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

Project: Noble - Vern Marshall 1

Project Number: UWRWE-A3126-ABN
 Project Manager: Jacob Whritenour

Reported:
 01/17/24 13:57

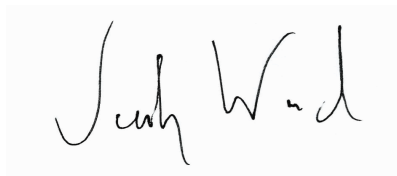
BH02@4'
2401033-03 (Soil)

Summit Scientific

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

| | | | | | | | |
|----|------|----------|---|---------|----------|----------|-----------|
| pH | 8.18 | pH Units | 1 | BHA0353 | 01/10/24 | 01/10/24 | EPA 9045D |
|----|------|----------|---|---------|----------|----------|-----------|

Summit Scientific



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

Project: Noble - Vern Marshall I
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BH02@8'
2401033-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/03/24 10:12**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | ND | 0.0020 | mg/kg | 1 | BHA0121 | 01/04/24 | 01/05/24 | 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: **01/03/24 10:12**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0464 | 116 % | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0428 | 107 % | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0418 | 105 % | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/03/24 10:12**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BHA0123 | 01/04/24 | 01/05/24 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **01/03/24 10:12**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 6.54 | 52.4 % | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BH02@8'
2401033-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/03/24 10:12**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|----------------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BHA0116 | 01/04/24 | 01/04/24 | 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 | 0.0100 | 0.00500 | " | " | " | " | " | " | |
| Fluorene | ND | 0.00500 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Pyrene | 0.00676 | 0.00500 | " | " | " | " | " | " | |
| 1-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |

Date Sampled: **01/03/24 10:12**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0135 | 40.4 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0135 | 40.5 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/03/24 10:12**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BHA0242 | 01/08/24 | 01/12/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **01/03/24 10:12**

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

Summit Scientific

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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BH02@8'
2401033-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| | | | | | | | | |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|
| Arsenic | 3.91 | 0.200 | mg/kg dry | 1 | BHA0210 | 01/05/24 | 01/12/24 | EPA 6020B |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|

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

Date Sampled: **01/03/24 10:12**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 17.2 | 0.0500 | mg/L dry | 1 | BHA0294 | 01/09/24 | 01/16/24 | EPA 6020B | |
| Magnesium | 6.54 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 14.1 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **01/03/24 10:12**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.734 | 0.00100 | units | 1 | BHA0613 | 01/17/24 | 01/17/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/03/24 10:12**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 81.1 | | % | 1 | BHA0204 | 01/05/24 | 01/05/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/03/24 10:12**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.167 | 0.0100 | mmhos/cm | 1 | BHA0355 | 01/10/24 | 01/10/24 | EPA 120.1 | |

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

Date Sampled: **01/03/24 10:12**

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

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

Project: Noble - Vern Marshall 1

Project Number: UWRWE-A3126-ABN
 Project Manager: Jacob Whritenour

Reported:
 01/17/24 13:57

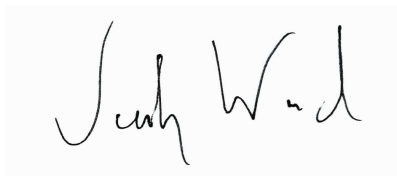
BH02@8'
2401033-04 (Soil)

Summit Scientific

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

| | | | | | | | |
|-----------|-------------|----------|---|---------|----------|----------|-----------|
| pH | 8.46 | pH Units | 1 | BHA0353 | 01/10/24 | 01/10/24 | EPA 9045D |
|-----------|-------------|----------|---|---------|----------|----------|-----------|

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Vern Marshall I
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BH03@4'
2401033-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/03/24 09:14**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BHA0121 | 01/04/24 | 01/05/24 | 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: **01/03/24 09:14**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0408 | 102 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0418 | 104 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0407 | 102 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/03/24 09:14**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BHA0123 | 01/04/24 | 01/05/24 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **01/03/24 09:14**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: o-Terphenyl | 7.53 | 60.2 % | | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Summit Scientific

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BH03@4'
2401033-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/03/24 09:14**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BHA0116 | 01/04/24 | 01/04/24 | 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: **01/03/24 09:14**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0163 | 48.8 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0163 | 49.0 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/03/24 09:14**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BHA0242 | 01/08/24 | 01/12/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **01/03/24 09:14**

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

Summit Scientific

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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BH03@4'
2401033-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| | | | | | | | | |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|
| Arsenic | 1.28 | 0.200 | mg/kg dry | 1 | BHA0210 | 01/05/24 | 01/12/24 | EPA 6020B |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|

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

Date Sampled: **01/03/24 09:14**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 142 | 0.0500 | mg/L dry | 1 | BHA0294 | 01/09/24 | 01/16/24 | EPA 6020B | |
| Magnesium | 18.2 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 5.07 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **01/03/24 09:14**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.106 | 0.00100 | units | 1 | BHA0613 | 01/17/24 | 01/17/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/03/24 09:14**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 93.7 | | % | 1 | BHA0204 | 01/05/24 | 01/05/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/03/24 09:14**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.0827 | 0.0100 | mmhos/cm | 1 | BHA0355 | 01/10/24 | 01/10/24 | EPA 120.1 | |

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

Date Sampled: **01/03/24 09:14**

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

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 Broomfield CO, 80020

Project: Noble - Vern Marshall 1
 Project Number: UWRWE-A3126-ABN
 Project Manager: Jacob Whritenour

Reported:
 01/17/24 13:57

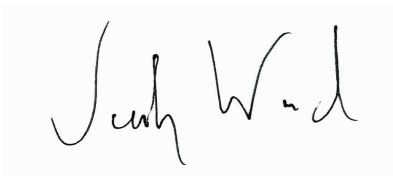
BH03@4'
2401033-05 (Soil)

Summit Scientific

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

| | | | | | | | |
|----|------|----------|---|---------|----------|----------|-----------|
| pH | 7.29 | pH Units | 1 | BHA0353 | 01/10/24 | 01/10/24 | EPA 9045D |
|----|------|----------|---|---------|----------|----------|-----------|

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Broomfield CO, 80020

Project: Noble - Vern Marshall I
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BH03@8'
2401033-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/03/24 09:26**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | ND | 0.0020 | mg/kg | 1 | BHA0121 | 01/04/24 | 01/05/24 | 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: **01/03/24 09:26**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0425 | 106 % | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0422 | 105 % | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0424 | 106 % | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/03/24 09:26**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BHA0123 | 01/04/24 | 01/05/24 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **01/03/24 09:26**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 6.47 | 51.7 % | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BH03@8'
2401033-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/03/24 09:26**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BHA0116 | 01/04/24 | 01/04/24 | 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: **01/03/24 09:26**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0153 | 45.8 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0164 | 49.3 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/03/24 09:26**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BHA0242 | 01/08/24 | 01/12/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **01/03/24 09:26**

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

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BH03@8'
2401033-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| | | | | | | | | |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|
| Arsenic | 3.50 | 0.200 | mg/kg dry | 1 | BHA0210 | 01/05/24 | 01/12/24 | EPA 6020B |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|

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

Date Sampled: **01/03/24 09:26**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 23.2 | 0.0500 | mg/L dry | 1 | BHA0294 | 01/09/24 | 01/16/24 | EPA 6020B | |
| Magnesium | 5.29 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 14.5 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **01/03/24 09:26**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.707 | 0.00100 | units | 1 | BHA0613 | 01/17/24 | 01/17/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/03/24 09:26**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 80.6 | | % | 1 | BHA0204 | 01/05/24 | 01/05/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/03/24 09:26**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.170 | 0.0100 | mmhos/cm | 1 | BHA0355 | 01/10/24 | 01/10/24 | EPA 120.1 | |

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

Date Sampled: **01/03/24 09:26**

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

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BH03@8'
2401033-06 (Soil)

Summit Scientific

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

| | | | | | | | |
|----|------|----------|---|---------|----------|----------|-----------|
| pH | 8.52 | pH Units | 1 | BHA0353 | 01/10/24 | 01/10/24 | EPA 9045D |
|----|------|----------|---|---------|----------|----------|-----------|

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Broomfield CO, 80020

Project: Noble - Vern Marshall I
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BH04@4'
2401033-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/03/24 10:43**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | ND | 0.0020 | mg/kg | 1 | BHA0121 | 01/04/24 | 01/06/24 | 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: **01/03/24 10:43**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0388 | 97.1 % | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0414 | 103 % | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0409 | 102 % | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/03/24 10:43**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BHA0123 | 01/04/24 | 01/05/24 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **01/03/24 10:43**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 6.60 | 52.8 % | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BH04@4'
2401033-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/03/24 10:43**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BHA0116 | 01/04/24 | 01/04/24 | 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: **01/03/24 10:43**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0154 | 46.1 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0137 | 41.2 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/03/24 10:43**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BHA0242 | 01/08/24 | 01/12/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **01/03/24 10:43**

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

Summit Scientific

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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BH04@4'
2401033-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| | | | | | | | | |
|----------------|-------------|-------|-----------|---|---------|----------|----------|-----------|
| Arsenic | 4.04 | 0.200 | mg/kg dry | 1 | BHA0210 | 01/05/24 | 01/12/24 | EPA 6020B |
|----------------|-------------|-------|-----------|---|---------|----------|----------|-----------|

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

Date Sampled: **01/03/24 10:43**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 27.8 | 0.0500 | mg/L dry | 1 | BHA0294 | 01/09/24 | 01/16/24 | EPA 6020B | |
| Magnesium | 5.55 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 17.3 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **01/03/24 10:43**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------------|--------------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.784 | 0.00100 | units | 1 | BHA0613 | 01/17/24 | 01/17/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/03/24 10:43**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------|-------------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 81.7 | | % | 1 | BHA0204 | 01/05/24 | 01/05/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/03/24 10:43**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.142 | 0.0100 | mmhos/cm | 1 | BHA0355 | 01/10/24 | 01/10/24 | EPA 120.1 | |

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

Date Sampled: **01/03/24 10:43**

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

Summit Scientific

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

Project: Noble - Vern Marshall 1

Project Number: UWRWE-A3126-ABN
 Project Manager: Jacob Whritenour

Reported:
 01/17/24 13:57

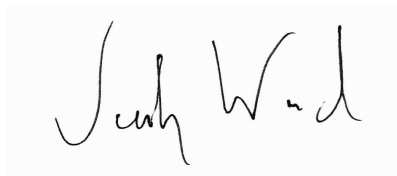
BH04@4'
2401033-07 (Soil)

Summit Scientific

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

| | | | | | | | |
|----|------|----------|---|---------|----------|----------|-----------|
| pH | 8.53 | pH Units | 1 | BHA0353 | 01/10/24 | 01/10/24 | EPA 9045D |
|----|------|----------|---|---------|----------|----------|-----------|

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

Project: Noble - Vern Marshall I
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BH04@8'
2401033-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/03/24 10:49**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | ND | 0.0020 | mg/kg | 1 | BHA0121 | 01/04/24 | 01/06/24 | 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: **01/03/24 10:49**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0378 | 94.6 % | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0413 | 103 % | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0403 | 101 % | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/03/24 10:49**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BHA0123 | 01/04/24 | 01/05/24 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **01/03/24 10:49**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 6.73 | 53.8 % | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BH04@8'
2401033-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/03/24 10:49**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BHA0116 | 01/04/24 | 01/04/24 | 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: **01/03/24 10:49**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0160 | 48.0 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0170 | 51.1 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/03/24 10:49**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BHA0242 | 01/08/24 | 01/12/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **01/03/24 10:49**

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

Summit Scientific

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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BH04@8'
2401033-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| | | | | | | | | |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|
| Arsenic | 3.64 | 0.200 | mg/kg dry | 1 | BHA0210 | 01/05/24 | 01/12/24 | EPA 6020B |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|

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

Date Sampled: **01/03/24 10:49**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 12.4 | 0.0500 | mg/L dry | 1 | BHA0294 | 01/09/24 | 01/16/24 | EPA 6020B | |
| Magnesium | 5.18 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 20.3 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **01/03/24 10:49**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 1.22 | 0.00100 | units | 1 | BHA0613 | 01/17/24 | 01/17/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/03/24 10:49**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 81.5 | | % | 1 | BHA0204 | 01/05/24 | 01/05/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/03/24 10:49**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.182 | 0.0100 | mmhos/cm | 1 | BHA0355 | 01/10/24 | 01/10/24 | EPA 120.1 | |

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

Date Sampled: **01/03/24 10:49**

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

Summit Scientific

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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BH04@8'
2401033-08 (Soil)

Summit Scientific

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

| | | | | | | | |
|-----------|-------------|----------|---|---------|----------|----------|-----------|
| pH | 8.64 | pH Units | 1 | BHA0353 | 01/10/24 | 01/10/24 | EPA 9045D |
|-----------|-------------|----------|---|---------|----------|----------|-----------|

Summit Scientific

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

Project: Noble - Vern Marshall I
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BH05@4'
2401033-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/03/24 10:51**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BHA0121 | 01/04/24 | 01/06/24 | 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: **01/03/24 10:51**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0350 | 87.6 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0425 | 106 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0400 | 100 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/03/24 10:51**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BHA0123 | 01/04/24 | 01/05/24 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **01/03/24 10:51**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: o-Terphenyl | 6.38 | 51.0 % | | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BH05@4'
2401033-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/03/24 10:51**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BHA0116 | 01/04/24 | 01/04/24 | 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: **01/03/24 10:51**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0140 | 42.0 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0151 | 45.4 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/03/24 10:51**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BHA0242 | 01/08/24 | 01/12/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **01/03/24 10:51**

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

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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BH05@4'
2401033-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| | | | | | | | | |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|
| Arsenic | 2.33 | 0.200 | mg/kg dry | 1 | BHA0210 | 01/05/24 | 01/12/24 | EPA 6020B |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|

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

Date Sampled: **01/03/24 10:51**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 82.2 | 0.0500 | mg/L dry | 1 | BHA0294 | 01/09/24 | 01/16/24 | EPA 6020B | |
| Magnesium | 32.2 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 5.34 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **01/03/24 10:51**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.126 | 0.00100 | units | 1 | BHA0613 | 01/17/24 | 01/17/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/03/24 10:51**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 82.9 | | % | 1 | BHA0204 | 01/05/24 | 01/05/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/03/24 10:51**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.0386 | 0.0100 | mmhos/cm | 1 | BHA0355 | 01/10/24 | 01/10/24 | EPA 120.1 | |

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

Date Sampled: **01/03/24 10:51**

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

Summit Scientific

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

Project: Noble - Vern Marshall 1

Project Number: UWRWE-A3126-ABN
 Project Manager: Jacob Whritenour

Reported:
 01/17/24 13:57

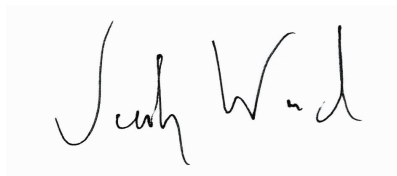
BH05@4'
2401033-09 (Soil)

Summit Scientific

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

| | | | | | | | |
|----|------|----------|---|---------|----------|----------|-----------|
| pH | 7.75 | pH Units | 1 | BHA0353 | 01/10/24 | 01/10/24 | EPA 9045D |
|----|------|----------|---|---------|----------|----------|-----------|

Summit Scientific



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

Project: Noble - Vern Marshall I
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BH05@8'
2401033-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/03/24 10:59**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BHA0121 | 01/04/24 | 01/06/24 | 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: **01/03/24 10:59**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0372 | 93.1 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0414 | 103 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0394 | 98.5 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/03/24 10:59**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BHA0123 | 01/04/24 | 01/05/24 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **01/03/24 10:59**

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

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BH05@8'
2401033-10 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/03/24 10:59**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BHA0116 | 01/04/24 | 01/04/24 | 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: **01/03/24 10:59**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0138 | 41.4 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0163 | 49.0 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/03/24 10:59**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BHA0242 | 01/08/24 | 01/12/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **01/03/24 10:59**

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

Summit Scientific

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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BH05@8'
2401033-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| | | | | | | | | |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|
| Arsenic | 4.16 | 0.200 | mg/kg dry | 1 | BHA0210 | 01/05/24 | 01/12/24 | EPA 6020B |
|---------|------|-------|-----------|---|---------|----------|----------|-----------|

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

Date Sampled: **01/03/24 10:59**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 17.0 | 0.0500 | mg/L dry | 1 | BHA0294 | 01/09/24 | 01/16/24 | EPA 6020B | |
| Magnesium | 5.44 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 15.8 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **01/03/24 10:59**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.854 | 0.00100 | units | 1 | BHA0613 | 01/17/24 | 01/17/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/03/24 10:59**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 82.1 | | % | 1 | BHA0204 | 01/05/24 | 01/05/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/03/24 10:59**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.160 | 0.0100 | mmhos/cm | 1 | BHA0355 | 01/10/24 | 01/10/24 | EPA 120.1 | |

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

Date Sampled: **01/03/24 10:59**

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

Summit Scientific

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

Project: Noble - Vern Marshall 1

Project Number: UWRWE-A3126-ABN
 Project Manager: Jacob Whritenour

Reported:
 01/17/24 13:57

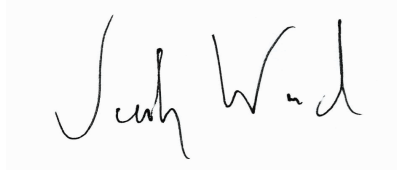
BH05@8'
2401033-10 (Soil)

Summit Scientific

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

| | | | | | | | |
|----|------|----------|---|---------|----------|----------|-----------|
| pH | 8.62 | pH Units | 1 | BHA0353 | 01/10/24 | 01/10/24 | EPA 9045D |
|----|------|----------|---|---------|----------|----------|-----------|

Summit Scientific



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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BG01@4'
2401033-11 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/03/24 09:30**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BHA0116 | 01/04/24 | 01/04/24 | 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: **01/03/24 09:30**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0166 | 49.7 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0178 | 53.4 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B

Date Sampled: **01/03/24 09:30**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------|--------------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 0.975 | 0.200 | mg/kg dry | 1 | BHA0210 | 01/05/24 | 01/12/24 | EPA 6020B | |

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

Date Sampled: **01/03/24 09:30**

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

Summit Scientific

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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BG01@4'
2401033-11 (Soil)

Summit Scientific

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 49.2 | 0.0500 | mg/L dry | 1 | BHA0294 | 01/09/24 | 01/16/24 | EPA 6020B | |
| Magnesium | 15.5 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 2.35 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **01/03/24 09:30**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0748 | 0.00100 | units | 1 | BHA0613 | 01/17/24 | 01/17/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/03/24 09:30**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 95.9 | | % | 1 | BHA0204 | 01/05/24 | 01/05/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/03/24 09:30**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.0212 | 0.0100 | mmhos/cm | 1 | BHA0355 | 01/10/24 | 01/10/24 | EPA 120.1 | |

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

Date Sampled: **01/03/24 09:30**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 7.83 | | pH Units | 1 | BHA0353 | 01/10/24 | 01/10/24 | EPA 9045D | |

Summit Scientific

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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BG01@8'
2401033-12 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/03/24 09:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BHA0116 | 01/04/24 | 01/04/24 | 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: **01/03/24 09:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0163 | 49.0 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0136 | 40.9 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B

Date Sampled: **01/03/24 09:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------|-------------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 3.92 | 0.200 | mg/kg dry | 1 | BHA0210 | 01/05/24 | 01/12/24 | EPA 6020B | |

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

Date Sampled: **01/03/24 09:45**

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

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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BG01@8'
2401033-12 (Soil)

Summit Scientific

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 14.8 | 0.0500 | mg/L dry | 1 | BHA0294 | 01/09/24 | 01/16/24 | EPA 6020B | |
| Magnesium | 5.95 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 20.8 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **01/03/24 09:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 1.15 | 0.00100 | units | 1 | BHA0613 | 01/17/24 | 01/17/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/03/24 09:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 84.4 | | % | 1 | BHA0204 | 01/05/24 | 01/05/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/03/24 09:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.175 | 0.0100 | mmhos/cm | 1 | BHA0355 | 01/10/24 | 01/10/24 | EPA 120.1 | |

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

Date Sampled: **01/03/24 09:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.60 | | pH Units | 1 | BHA0353 | 01/10/24 | 01/10/24 | EPA 9045D | |

Summit Scientific

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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BG02@4'
2401033-13 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/03/24 09:20**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BHA0116 | 01/04/24 | 01/04/24 | 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: **01/03/24 09:20**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0180 | 53.9 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0222 | 66.5 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B

Date Sampled: **01/03/24 09:20**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------|-------------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 1.19 | 0.200 | mg/kg dry | 1 | BHA0210 | 01/05/24 | 01/12/24 | EPA 6020B | |

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

Date Sampled: **01/03/24 09:20**

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

Summit Scientific

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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BG02@4'
2401033-13 (Soil)

Summit Scientific

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 34.5 | 0.0500 | mg/L dry | 1 | BHA0294 | 01/09/24 | 01/16/24 | EPA 6020B | |
| Magnesium | 7.47 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 1.57 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **01/03/24 09:20**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0632 | 0.00100 | units | 1 | BHA0613 | 01/17/24 | 01/17/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/03/24 09:20**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 96.6 | | % | 1 | BHA0204 | 01/05/24 | 01/05/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/03/24 09:20**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.0234 | 0.0100 | mmhos/cm | 1 | BHA0355 | 01/10/24 | 01/10/24 | EPA 120.1 | |

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

Date Sampled: **01/03/24 09:20**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 7.48 | | pH Units | 1 | BHA0353 | 01/10/24 | 01/10/24 | EPA 9045D | |

Summit Scientific

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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BG02@8'
2401033-14 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/03/24 09:35**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BHA0116 | 01/04/24 | 01/05/24 | 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: **01/03/24 09:35**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0163 | 49.0 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0231 | 69.2 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B

Date Sampled: **01/03/24 09:35**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------|-------------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 3.89 | 0.200 | mg/kg dry | 1 | BHA0210 | 01/05/24 | 01/12/24 | EPA 6020B | |

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

Date Sampled: **01/03/24 09:35**

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

Summit Scientific

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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BG02@8'
2401033-14 (Soil)

Summit Scientific

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 23.1 | 0.0500 | mg/L dry | 1 | BHA0294 | 01/09/24 | 01/16/24 | EPA 6020B | |
| Magnesium | 5.95 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 21.8 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **01/03/24 09:35**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 1.05 | 0.00100 | units | 1 | BHA0613 | 01/17/24 | 01/17/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/03/24 09:35**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 84.2 | | % | 1 | BHA0204 | 01/05/24 | 01/05/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/03/24 09:35**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.176 | 0.0100 | mmhos/cm | 1 | BHA0355 | 01/10/24 | 01/10/24 | EPA 120.1 | |

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

Date Sampled: **01/03/24 09:35**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.61 | | pH Units | 1 | BHA0353 | 01/10/24 | 01/10/24 | EPA 9045D | |

Summit Scientific

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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BG03@4'
2401033-15 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/03/24 09:41**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BHA0116 | 01/04/24 | 01/05/24 | 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: **01/03/24 09:41**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0139 | 41.6 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0162 | 48.5 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B

Date Sampled: **01/03/24 09:41**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------|-------------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 2.66 | 0.200 | mg/kg dry | 1 | BHA0210 | 01/05/24 | 01/12/24 | EPA 6020B | |

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

Date Sampled: **01/03/24 09:41**

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

Summit Scientific

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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BG03@4'
2401033-15 (Soil)

Summit Scientific

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 88.2 | 0.0500 | mg/L dry | 1 | BHA0294 | 01/09/24 | 01/16/24 | EPA 6020B | |
| Magnesium | 34.4 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 28.0 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **01/03/24 09:41**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.640 | 0.00100 | units | 1 | BHA0613 | 01/17/24 | 01/17/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/03/24 09:41**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 83.0 | | % | 1 | BHA0204 | 01/05/24 | 01/05/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/03/24 09:41**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.0838 | 0.0100 | mmhos/cm | 1 | BHA0355 | 01/10/24 | 01/10/24 | EPA 120.1 | |

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

Date Sampled: **01/03/24 09:41**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.15 | | pH Units | 1 | BHA0353 | 01/10/24 | 01/10/24 | EPA 9045D | |

Summit Scientific

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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BG03@8'
2401033-16 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/03/24 10:05**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BHA0116 | 01/04/24 | 01/05/24 | 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: **01/03/24 10:05**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0153 | 46.0 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0146 | 43.7 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B

Date Sampled: **01/03/24 10:05**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------|-------------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 2.82 | 0.200 | mg/kg dry | 1 | BHA0210 | 01/05/24 | 01/12/24 | EPA 6020B | |

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

Date Sampled: **01/03/24 10:05**

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

Summit Scientific

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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BG03@8'
2401033-16 (Soil)

Summit Scientific

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 17.2 | 0.0500 | mg/L dry | 1 | BHA0294 | 01/09/24 | 01/16/24 | EPA 6020B | |
| Magnesium | 5.67 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 23.9 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **01/03/24 10:05**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 1.28 | 0.00100 | units | 1 | BHA0613 | 01/17/24 | 01/17/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/03/24 10:05**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 82.0 | | % | 1 | BHA0204 | 01/05/24 | 01/05/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/03/24 10:05**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.183 | 0.0100 | mmhos/cm | 1 | BHA0355 | 01/10/24 | 01/10/24 | EPA 120.1 | |

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

Date Sampled: **01/03/24 10:05**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.70 | | pH Units | 1 | BHA0353 | 01/10/24 | 01/10/24 | EPA 9045D | |

Summit Scientific

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

Project: Noble - Vern Marshall I
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BG04@4'
2401033-17 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/03/24 11:27**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BHA0116 | 01/04/24 | 01/05/24 | 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: **01/03/24 11:27**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0186 | 55.7 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0174 | 52.1 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B

Date Sampled: **01/03/24 11:27**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------|-------------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 2.75 | 0.200 | mg/kg dry | 1 | BHA0210 | 01/05/24 | 01/12/24 | EPA 6020B | |

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

Date Sampled: **01/03/24 11:27**

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

Summit Scientific

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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BG04@4'
2401033-17 (Soil)

Summit Scientific

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 21.9 | 0.0500 | mg/L dry | 1 | BHA0294 | 01/09/24 | 01/16/24 | EPA 6020B | |
| Magnesium | 8.52 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 35.3 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **01/03/24 11:27**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 1.62 | 0.00100 | units | 1 | BHA0613 | 01/17/24 | 01/17/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/03/24 11:27**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 86.9 | | % | 1 | BHA0204 | 01/05/24 | 01/05/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/03/24 11:27**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.232 | 0.0100 | mmhos/cm | 1 | BHA0355 | 01/10/24 | 01/10/24 | EPA 120.1 | |

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

Date Sampled: **01/03/24 11:27**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.24 | | pH Units | 1 | BHA0353 | 01/10/24 | 01/10/24 | EPA 9045D | |

Summit Scientific

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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BG04@8'
2401033-18 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/03/24 11:32**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BHA0116 | 01/04/24 | 01/05/24 | 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: **01/03/24 11:32**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0159 | 47.6 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0145 | 43.5 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B

Date Sampled: **01/03/24 11:32**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------|-------------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 3.01 | 0.200 | mg/kg dry | 1 | BHA0210 | 01/05/24 | 01/12/24 | EPA 6020B | |

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

Date Sampled: **01/03/24 11:32**

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

Summit Scientific

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

Project: Noble - Vern Marshall I
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BG04@8'
2401033-18 (Soil)

Summit Scientific

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 12.9 | 0.0500 | mg/L dry | 1 | BHA0294 | 01/09/24 | 01/16/24 | EPA 6020B | |
| Magnesium | 5.46 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 29.1 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **01/03/24 11:32**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 1.71 | 0.00100 | units | 1 | BHA0613 | 01/17/24 | 01/17/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/03/24 11:32**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 82.7 | | % | 1 | BHA0204 | 01/05/24 | 01/05/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/03/24 11:32**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.214 | 0.0100 | mmhos/cm | 1 | BHA0355 | 01/10/24 | 01/10/24 | EPA 120.1 | |

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

Date Sampled: **01/03/24 11:32**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.67 | | pH Units | 1 | BHA0353 | 01/10/24 | 01/10/24 | EPA 9045D | |

Summit Scientific

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

Project: Noble - Vern Marshall 1

Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BG05@4'
2401033-19 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/03/24 11:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BHA0116 | 01/04/24 | 01/05/24 | 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: **01/03/24 11:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0245 | 73.6 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0184 | 55.3 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B

Date Sampled: **01/03/24 11:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------|-------------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 2.10 | 0.200 | mg/kg dry | 1 | BHA0210 | 01/05/24 | 01/12/24 | EPA 6020B | |

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

Date Sampled: **01/03/24 11:15**

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

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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BG05@4'
2401033-19 (Soil)

Summit Scientific

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 39.9 | 0.0500 | mg/L dry | 1 | BHA0294 | 01/09/24 | 01/16/24 | EPA 6020B | |
| Magnesium | 7.11 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 8.18 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **01/03/24 11:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.314 | 0.00100 | units | 1 | BHA0613 | 01/17/24 | 01/17/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/03/24 11:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 86.5 | | % | 1 | BHA0204 | 01/05/24 | 01/05/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/03/24 11:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.146 | 0.0100 | mmhos/cm | 1 | BHA0355 | 01/10/24 | 01/10/24 | EPA 120.1 | |

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

Date Sampled: **01/03/24 11:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.28 | | pH Units | 1 | BHA0353 | 01/10/24 | 01/10/24 | EPA 9045D | |

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BG05@8'
2401033-20 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/03/24 11:32**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BHA0116 | 01/04/24 | 01/05/24 | 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: **01/03/24 11:32**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0164 | 49.2 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0197 | 59.0 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B

Date Sampled: **01/03/24 11:32**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------|-------------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 2.59 | 0.200 | mg/kg dry | 1 | BHA0210 | 01/05/24 | 01/12/24 | EPA 6020B | |

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

Date Sampled: **01/03/24 11:32**

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

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

BG05@8'
2401033-20 (Soil)

Summit Scientific

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 16.0 | 0.0500 | mg/L dry | 1 | BHA0294 | 01/09/24 | 01/16/24 | EPA 6020B | |
| Magnesium | 9.06 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 30.1 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **01/03/24 11:32**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 1.49 | 0.00100 | units | 1 | BHA0613 | 01/17/24 | 01/17/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/03/24 11:32**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 81.0 | | % | 1 | BHA0204 | 01/05/24 | 01/05/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/03/24 11:32**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.205 | 0.0100 | mmhos/cm | 1 | BHA0355 | 01/10/24 | 01/10/24 | EPA 120.1 | |

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

Date Sampled: **01/03/24 11:32**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.70 | | pH Units | 1 | BHA0353 | 01/10/24 | 01/10/24 | EPA 9045D | |

Summit Scientific

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

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 BHA0121 - EPA 5030 Soil MS

Blank (BHA0121-BLK1)

Prepared: 01/04/24 Analyzed: 01/05/24

| | | | | | | | | | | |
|---|--------|--------|-------|--------|--|------|--------|--|--|--|
| 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> | 0.0368 | | " | 0.0400 | | 92.0 | 50-150 | | | |
| <i>Surrogate: Toluene-d8</i> | 0.0422 | | " | 0.0400 | | 105 | 50-150 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0419 | | " | 0.0400 | | 105 | 50-150 | | | |

LCS (BHA0121-BS1)

Prepared: 01/04/24 Analyzed: 01/05/24

| | | | | | | | | | | |
|---|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene | 0.0872 | 0.0020 | mg/kg | 0.100 | | 87.2 | 70-130 | | | |
| Toluene | 0.121 | 0.0050 | " | 0.100 | | 121 | 70-130 | | | |
| Ethylbenzene | 0.112 | 0.0050 | " | 0.100 | | 112 | 70-130 | | | |
| m,p-Xylene | 0.227 | 0.010 | " | 0.200 | | 114 | 70-130 | | | |
| o-Xylene | 0.112 | 0.0050 | " | 0.100 | | 112 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.107 | 0.0050 | " | 0.100 | | 107 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.109 | 0.0050 | " | 0.100 | | 109 | 70-130 | | | |
| Naphthalene | 0.0901 | 0.0038 | " | 0.100 | | 90.1 | 70-130 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0358 | | " | 0.0400 | | 89.6 | 50-150 | | | |
| <i>Surrogate: Toluene-d8</i> | 0.0430 | | " | 0.0400 | | 108 | 50-150 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0397 | | " | 0.0400 | | 99.2 | 50-150 | | | |

Matrix Spike (BHA0121-MS1)

Source: 2401032-01

Prepared: 01/04/24 Analyzed: 01/05/24

| | | | | | | | | | | |
|---|--------|--------|-------|--------|----|------|--------|--|--|--|
| Benzene | 0.0864 | 0.0020 | mg/kg | 0.100 | ND | 86.4 | 70-130 | | | |
| Toluene | 0.113 | 0.0050 | " | 0.100 | ND | 113 | 70-130 | | | |
| Ethylbenzene | 0.110 | 0.0050 | " | 0.100 | ND | 110 | 70-130 | | | |
| m,p-Xylene | 0.221 | 0.010 | " | 0.200 | ND | 111 | 70-130 | | | |
| o-Xylene | 0.109 | 0.0050 | " | 0.100 | ND | 109 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.102 | 0.0050 | " | 0.100 | ND | 102 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.104 | 0.0050 | " | 0.100 | ND | 104 | 70-130 | | | |
| Naphthalene | 0.0890 | 0.0038 | " | 0.100 | ND | 89.0 | 70-130 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0402 | | " | 0.0400 | | 100 | 50-150 | | | |
| <i>Surrogate: Toluene-d8</i> | 0.0410 | | " | 0.0400 | | 102 | 50-150 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0407 | | " | 0.0400 | | 102 | 50-150 | | | |

Summit Scientific

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

Project: Noble - Vern Marshall I
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BHA0121 - EPA 5030 Soil MS

| Matrix Spike Dup (BHA0121-MSD1) | Source: 2401032-01 | | | Prepared: 01/04/24 Analyzed: 01/05/24 | | | | | | |
|----------------------------------|--------------------|--------|-------|---------------------------------------|----|------|--------|--------|----|--|
| Benzene | 0.0864 | 0.0020 | mg/kg | 0.100 | ND | 86.4 | 70-130 | 0.0347 | 30 | |
| Toluene | 0.114 | 0.0050 | " | 0.100 | ND | 114 | 70-130 | 1.24 | 30 | |
| Ethylbenzene | 0.114 | 0.0050 | " | 0.100 | ND | 114 | 70-130 | 4.28 | 30 | |
| m,p-Xylene | 0.233 | 0.010 | " | 0.200 | ND | 117 | 70-130 | 5.38 | 30 | |
| o-Xylene | 0.112 | 0.0050 | " | 0.100 | ND | 112 | 70-130 | 3.50 | 30 | |
| 1,2,4-Trimethylbenzene | 0.107 | 0.0050 | " | 0.100 | ND | 107 | 70-130 | 5.05 | 30 | |
| 1,3,5-Trimethylbenzene | 0.110 | 0.0050 | " | 0.100 | ND | 110 | 70-130 | 5.23 | 30 | |
| Naphthalene | 0.0918 | 0.0038 | " | 0.100 | ND | 91.8 | 70-130 | 3.12 | 30 | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0373 | | " | 0.0400 | | 93.2 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0403 | | " | 0.0400 | | 101 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0412 | | " | 0.0400 | | 103 | 50-150 | | | |

Summit Scientific

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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

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 BHA0123 - EPA 3550A

Blank (BHA0123-BLK1)

Prepared & Analyzed: 01/04/24

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|-----|--------|--|--|--|--|--|
| C10-C28 (DRO) | ND | 50 | mg/kg | | | | | | | | |
| C28-C36 (ORO) | ND | 50 | " | | | | | | | | |
| Surrogate: <i>o</i> -Terphenyl | 13.4 | | " | 12.5 | 107 | 30-150 | | | | | |

LCS (BHA0123-BS1)

Prepared & Analyzed: 01/04/24

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|------|--------|--|--|--|--|--|
| C10-C28 (DRO) | 430 | 50 | mg/kg | 500 | 86.1 | 70-130 | | | | | |
| Surrogate: <i>o</i> -Terphenyl | 9.67 | | " | 12.5 | 77.3 | 30-150 | | | | | |

Matrix Spike (BHA0123-MS1)

Source: 2401032-01

Prepared & Analyzed: 01/04/24

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|------|--------|--------|--|--|--|--|
| C10-C28 (DRO) | 437 | 50 | mg/kg | 500 | 14.0 | 84.7 | 70-130 | | | | |
| Surrogate: <i>o</i> -Terphenyl | 7.27 | | " | 12.5 | 58.1 | 30-150 | | | | | |

Matrix Spike Dup (BHA0123-MSD1)

Source: 2401032-01

Prepared & Analyzed: 01/04/24

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|------|--------|--------|------|----|--|--|
| C10-C28 (DRO) | 455 | 50 | mg/kg | 500 | 14.0 | 88.3 | 70-130 | 4.04 | 20 | | |
| Surrogate: <i>o</i> -Terphenyl | 7.72 | | " | 12.5 | 61.8 | 30-150 | | | | | |

Summit Scientific

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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

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 BHA0116 - EPA 5030 Soil MS

Blank (BHA0116-BLK1)

Prepared & Analyzed: 01/04/24

| | | | | | | | | | | |
|---|---------------|---------|-------|---------------|--|-------------|---------------|--|--|--|
| 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>0.0147</i> | | " | <i>0.0333</i> | | <i>44.2</i> | <i>40-150</i> | | | |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0236</i> | | " | <i>0.0333</i> | | <i>70.7</i> | <i>40-150</i> | | | |

LCS (BHA0116-BS1)

Prepared & Analyzed: 01/04/24

| | | | | | | | | | | |
|---|---------------|---------|-------|---------------|--|-------------|---------------|--|--|--|
| Acenaphthene | 0.0259 | 0.00500 | mg/kg | 0.0333 | | 77.8 | 31-137 | | | |
| Anthracene | 0.0292 | 0.00500 | " | 0.0333 | | 87.5 | 30-120 | | | |
| Benzo (a) anthracene | 0.0266 | 0.00500 | " | 0.0333 | | 79.8 | 30-120 | | | |
| Benzo (a) pyrene | 0.0251 | 0.00500 | " | 0.0333 | | 75.3 | 30-120 | | | |
| Benzo (b) fluoranthene | 0.0269 | 0.00500 | " | 0.0333 | | 80.7 | 30-120 | | | |
| Benzo (k) fluoranthene | 0.0303 | 0.00500 | " | 0.0333 | | 90.8 | 30-120 | | | |
| Chrysene | 0.0298 | 0.00500 | " | 0.0333 | | 89.5 | 30-120 | | | |
| Dibenz (a,h) anthracene | 0.0208 | 0.00500 | " | 0.0333 | | 62.4 | 30-120 | | | |
| Fluoranthene | 0.0298 | 0.00500 | " | 0.0333 | | 89.3 | 30-120 | | | |
| Fluorene | 0.0258 | 0.00500 | " | 0.0333 | | 77.3 | 30-120 | | | |
| Indeno (1,2,3-cd) pyrene | 0.0205 | 0.00500 | " | 0.0333 | | 61.5 | 30-120 | | | |
| Pyrene | 0.0308 | 0.00500 | " | 0.0333 | | 92.5 | 35-142 | | | |
| 1-Methylnaphthalene | 0.0215 | 0.00500 | " | 0.0333 | | 64.6 | 35-142 | | | |
| 2-Methylnaphthalene | 0.0330 | 0.00500 | " | 0.0333 | | 98.9 | 35-142 | | | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0199</i> | | " | <i>0.0333</i> | | <i>59.8</i> | <i>40-150</i> | | | |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0281</i> | | " | <i>0.0333</i> | | <i>84.4</i> | <i>40-150</i> | | | |

Summit Scientific

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

Project: Noble - Vern Marshall I
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

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 BHA0116 - EPA 5030 Soil MS

| Matrix Spike (BHA0116-MS1) | Source: 2401033-01 | | | Prepared & Analyzed: 01/04/24 | | | | | | |
|---|---------------------------|---------|----------|--|----|-------------|---------------|--|--|--|
| Acenaphthene | 0.0175 | 0.00500 | mg/kg | 0.0333 | ND | 52.6 | 31-137 | | | |
| Anthracene | 0.0178 | 0.00500 | " | 0.0333 | ND | 53.3 | 30-120 | | | |
| Benzo (a) anthracene | 0.0213 | 0.00500 | " | 0.0333 | ND | 63.9 | 30-120 | | | |
| Benzo (a) pyrene | 0.0167 | 0.00500 | " | 0.0333 | ND | 50.0 | 30-120 | | | |
| Benzo (b) fluoranthene | 0.0176 | 0.00500 | " | 0.0333 | ND | 52.8 | 30-120 | | | |
| Benzo (k) fluoranthene | 0.0188 | 0.00500 | " | 0.0333 | ND | 56.5 | 30-120 | | | |
| Chrysene | 0.0163 | 0.00500 | " | 0.0333 | ND | 49.0 | 30-120 | | | |
| Dibenz (a,h) anthracene | 0.0169 | 0.00500 | " | 0.0333 | ND | 50.8 | 30-120 | | | |
| Fluoranthene | 0.0185 | 0.00500 | " | 0.0333 | ND | 55.6 | 30-120 | | | |
| Fluorene | 0.0183 | 0.00500 | " | 0.0333 | ND | 54.9 | 30-120 | | | |
| Indeno (1,2,3-cd) pyrene | 0.0142 | 0.00500 | " | 0.0333 | ND | 42.5 | 30-120 | | | |
| Pyrene | 0.0176 | 0.00500 | " | 0.0333 | ND | 52.8 | 35-142 | | | |
| 1-Methylnaphthalene | 0.0145 | 0.00500 | " | 0.0333 | ND | 43.5 | 15-130 | | | |
| 2-Methylnaphthalene | 0.0224 | 0.00500 | " | 0.0333 | ND | 67.3 | 15-130 | | | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0156</i> | | <i>"</i> | <i>0.0333</i> | | <i>46.7</i> | <i>40-150</i> | | | |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0182</i> | | <i>"</i> | <i>0.0333</i> | | <i>54.5</i> | <i>40-150</i> | | | |

| Matrix Spike Dup (BHA0116-MSD1) | Source: 2401033-01 | | | Prepared & Analyzed: 01/04/24 | | | | | | |
|---|---------------------------|---------|----------|--|----|-------------|---------------|-------|----|--|
| Acenaphthene | 0.0177 | 0.00500 | mg/kg | 0.0333 | ND | 53.1 | 31-137 | 0.804 | 30 | |
| Anthracene | 0.0187 | 0.00500 | " | 0.0333 | ND | 56.2 | 30-120 | 5.34 | 30 | |
| Benzo (a) anthracene | 0.0229 | 0.00500 | " | 0.0333 | ND | 68.8 | 30-120 | 7.28 | 30 | |
| Benzo (a) pyrene | 0.0185 | 0.00500 | " | 0.0333 | ND | 55.6 | 30-120 | 10.6 | 30 | |
| Benzo (b) fluoranthene | 0.0192 | 0.00500 | " | 0.0333 | ND | 57.6 | 30-120 | 8.82 | 30 | |
| Benzo (k) fluoranthene | 0.0195 | 0.00500 | " | 0.0333 | ND | 58.6 | 30-120 | 3.61 | 30 | |
| Chrysene | 0.0176 | 0.00500 | " | 0.0333 | ND | 52.7 | 30-120 | 7.32 | 30 | |
| Dibenz (a,h) anthracene | 0.0152 | 0.00500 | " | 0.0333 | ND | 45.7 | 30-120 | 10.6 | 30 | |
| Fluoranthene | 0.0197 | 0.00500 | " | 0.0333 | ND | 59.2 | 30-120 | 6.35 | 30 | |
| Fluorene | 0.0209 | 0.00500 | " | 0.0333 | ND | 62.8 | 30-120 | 13.4 | 30 | |
| Indeno (1,2,3-cd) pyrene | 0.0137 | 0.00500 | " | 0.0333 | ND | 41.0 | 30-120 | 3.79 | 30 | |
| Pyrene | 0.0200 | 0.00500 | " | 0.0333 | ND | 60.0 | 35-142 | 12.7 | 30 | |
| 1-Methylnaphthalene | 0.0166 | 0.00500 | " | 0.0333 | ND | 49.9 | 15-130 | 13.6 | 50 | |
| 2-Methylnaphthalene | 0.0216 | 0.00500 | " | 0.0333 | ND | 64.7 | 15-130 | 3.96 | 50 | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0181</i> | | <i>"</i> | <i>0.0333</i> | | <i>54.3</i> | <i>40-150</i> | | | |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0193</i> | | <i>"</i> | <i>0.0333</i> | | <i>57.9</i> | <i>40-150</i> | | | |

Summit Scientific

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

Project: Noble - Vern Marshall I
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

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

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

Batch BHA0242 - EPA 3050B

Blank (BHA0242-BLK1)

Prepared: 01/08/24 Analyzed: 01/12/24

Boron ND 2.00 mg/L

LCS (BHA0242-BS1)

Prepared: 01/08/24 Analyzed: 01/12/24

Boron 5.38 2.00 mg/L 5.00 108 80-120

Duplicate (BHA0242-DUP1)

Source: 2401007-01

Prepared: 01/08/24 Analyzed: 01/12/24

Boron ND 2.00 mg/L 0.0150 200 20 QR-01

Matrix Spike (BHA0242-MS1)

Source: 2401007-01

Prepared: 01/08/24 Analyzed: 01/12/24

Boron 4.97 2.00 mg/L 5.00 0.0150 99.1 75-125

Matrix Spike Dup (BHA0242-MSD1)

Source: 2401007-01

Prepared: 01/08/24 Analyzed: 01/12/24

Boron 5.71 2.00 mg/L 5.00 0.0150 114 75-125 14.0 25

Summit Scientific

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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

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 BHA0210 - EPA 3050B

Blank (BHA0210-BLK1)

Prepared: 01/05/24 Analyzed: 01/12/24

Arsenic ND 0.200 mg/kg wet

LCS (BHA0210-BS1)

Prepared: 01/05/24 Analyzed: 01/12/24

Arsenic 35.0 0.200 mg/kg wet 40.0 87.4 80-120

Duplicate (BHA0210-DUP1)

Source: 2401033-01

Prepared: 01/05/24 Analyzed: 01/12/24

Arsenic 1.61 0.200 mg/kg dry 1.45 10.4 20

Matrix Spike (BHA0210-MS1)

Source: 2401033-01

Prepared: 01/05/24 Analyzed: 01/12/24

Arsenic 42.0 0.200 mg/kg dry 43.2 1.45 93.8 75-125

Matrix Spike Dup (BHA0210-MSD1)

Source: 2401033-01

Prepared: 01/05/24 Analyzed: 01/12/24

Arsenic 40.6 0.200 mg/kg dry 43.2 1.45 90.6 75-125 3.37 25

Summit Scientific

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

Project: Noble - Vern Marshall 1

Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

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 BHA0294 - General Preparation

Blank (BHA0294-BLK1)

Prepared: 01/09/24 Analyzed: 01/16/24


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

LCS (BHA0294-BS1)

Prepared: 01/09/24 Analyzed: 01/16/24

| | | | | | | |
|-----------|------|--------|----------|------|-----|--------|
| Calcium | 6.43 | 0.0500 | mg/L wet | 5.00 | 129 | 70-130 |
| Magnesium | 5.51 | 0.0500 | " | 5.00 | 110 | 70-130 |
| Sodium | 5.62 | 0.0500 | " | 5.00 | 112 | 70-130 |

Summit Scientific



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

Project: Noble - Vern Marshall 1

Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

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 BHA0204 - General Preparation

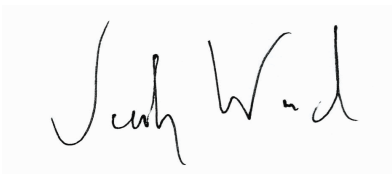
Duplicate (BHA0204-DUP1)

Source: 2401033-01

Prepared & Analyzed: 01/05/24

| | | | | | | | | | | |
|----------|------|--|---|--|------|--|--|-------|----|--|
| % Solids | 92.3 | | % | | 92.6 | | | 0.344 | 20 | |
|----------|------|--|---|--|------|--|--|-------|----|--|

Summit Scientific



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

Project: Noble - Vern Marshall 1
Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

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 BHA0355 - General Preparation

Blank (BHA0355-BLK1)

Prepared & Analyzed: 01/10/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHA0355-BS1)

Prepared & Analyzed: 01/10/24

Specific Conductance (EC) 0.153 0.0100 mmhos/cm 0.150 102 95-105

Duplicate (BHA0355-DUP1)

Source: 2401033-01

Prepared & Analyzed: 01/10/24

Specific Conductance (EC) 0.0380 0.0100 mmhos/cm 0.0381 0.421 20

Summit Scientific

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

Project: Noble - Vern Marshall 1

Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

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 BHA0353 - General Preparation

LCS (BHA0353-BS1)

Prepared & Analyzed: 01/10/24

pH 9.16 pH Units 9.18 99.8 95-105

Duplicate (BHA0353-DUP1)

Source: 2401033-01

Prepared & Analyzed: 01/10/24

pH 7.73 pH Units 7.71 0.259 20

Summit Scientific

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

Project: Noble - Vern Marshall 1

Project Number: UWRWE-A3126-ABN
Project Manager: Jacob Whritenour

Reported:
01/17/24 13:57

Notes and Definitions

| | |
|-------|---|
| QR-01 | Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results. |
| 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 |