

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 23, 2024

Jacob Whritenour
Tasman Geosciences
6855 W. 119th Ave.
Broomfield, CO 80020
RE: Noble - Five Rivers K09-21D
Work Order #2408193

Enclosed are the results of analyses for samples received by Summit Scientific on 08/19/24 17:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury
President



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

Project: Noble - Five Rivers K09-21D

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/23/24 10:51

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|----------------|---------------|--------|----------------|----------------|
| FS01-FL01-M@9' | 2408193-01 | Soil | 08/19/24 11:15 | 08/19/24 17:35 |

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Golden, CO 80403
303-277-9310

| | | |
|---------|------|----|
| Lab ID | Page | of |
| 2408193 | | |

| | | |
|--------------------------------------|--|--|
| Client: Noble / Tasman | Send Data To: Project Manager: Jake Whritenour | Send Invoice To: Company: Chevron |
| Address: 6855 W. 119th Ave | E-Mail: Jwhritenour@tasman-geo.com | Project Name/Location: Five Rivers K09-21D |
| City/State/Zip: Broomfield, CO 80020 | Project Name: Five Rivers K09-21D | AFE#: |
| Phone: 303-884-4989 | Project Number: | PO/Billing Codes: |
| Sampler Name: Kaitlin Steinfart | | Contact: Erin Crawford |

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative | | | | Matrix | | | Analysis Requested | | | | | | | Special Instructions | | |
|----|--------------------|--------------|--------------|-----------------|--------------|------|------|-------|--------|------|----------------|--------------------|-----------|-----------|-----------|-------------|-------------|--------------|----------------------|------|--------------------------------|
| | | | | | HCl | HNO3 | None | Other | Water | Soil | Air-Canister # | Other | VOC - 915 | TPH - 915 | PAH - 915 | pH, EC, SAR | Boron - HWS | Metals - 915 | | HOLD | |
| 1 | ESQ1-FL01-M@91 | 08-19-24 | 1115 | 3 | | | X | | | X | | | X | X | X | X | X | X | X | | pH, EC, SAR by saturated paste |
| 2 | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | |
|--------------------------------------|--------------------------|---------------------------------|--------------------------|--|-------------|---|
| Relinquished by: <i>Y. Steinfart</i> | Date/Time: 08-19-24 1545 | Received by: Tasman Lock Box | Date/Time: 08-19-24 1545 | TAT Business Days | Field DO | Notes: same day turn around for VOC & TPH, standard for other analytes |
| Relinquished by: Tasman Lock Box | Date/Time: 8/19/24 1735 | Received by: <i>[Signature]</i> | Date/Time: 8/19/24 1735 | Same Day <input checked="" type="checkbox"/> | Field EC | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 1 Day | Field ORP | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 2 Days | Field pH | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 3 Days | Field Temp. | |
| Temperature Upon Receipt: 8.6 | Corrected Temperature: 8 | IR gun #: | | Standard | Field Turb. | |
| | | | | HNO3 lot #: | | |

S₂

Sample Receipt Checklist

S2 Work Order# 2408193

Client: NOVA TOSMAN Client Project ID: FWE RIVER K09-210

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

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

Temp (°C)

Thermometer #

| | Yes | No | N/A | Comments (if any) |
|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| If custody seals are present, are they intact? ⁽¹⁾ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | OK > CE |
| Are samples due within 48 hours present? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Same day |
| Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen | <input type="checkbox"/> | <input 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

8/19/24
Date/Time



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

Project: Noble - Five Rivers K09-21D

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/23/24 10:51

FS01-FL01-M@9'
2408193-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/19/24 11:15**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BHH0516 | 08/19/24 | 08/20/24 | 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: **08/19/24 11:15**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0408 | 102 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0404 | 101 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0383 | 95.8 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/19/24 11:15**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BHH0518 | 08/19/24 | 08/20/24 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **08/19/24 11:15**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: o-Terphenyl | 8.30 | 66.4 % | | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

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

Project: Noble - Five Rivers K09-21D

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/23/24 10:51

FS01-FL01-M@9'
2408193-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/19/24 11:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BHH0525 | 08/20/24 | 08/21/24 | 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: **08/19/24 11:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0214 | 64.1 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0213 | 63.8 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/19/24 11:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BHH0577 | 08/21/24 | 08/22/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **08/19/24 11:15**

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

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Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/23/24 10:51

FS01-FL01-M@9'
2408193-01 (Soil)

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Total Metals by EPA 6020B

| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 0.609 | 0.200 | mg/kg dry | 1 | BHH0528 | 08/20/24 | 08/20/24 | EPA 6020B | |
| Barium | 40.4 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 1.75 | 0.400 | " | " | " | " | " | " | |
| Lead | 3.77 | 0.200 | " | " | " | " | " | " | |
| Nickel | 2.53 | 0.400 | " | " | " | " | " | " | |
| Silver | ND | 0.0200 | " | " | " | " | " | " | |
| Zinc | 13.6 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/19/24 11:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHH0531 | 08/20/24 | 08/20/24 | EPA 7196A | |

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

Date Sampled: **08/19/24 11:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 12.0 | 0.0500 | mg/L dry | 1 | BHH0544 | 08/20/24 | 08/23/24 | EPA 6020B | |
| Magnesium | 3.11 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 35.6 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **08/19/24 11:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 2.37 | 0.00100 | units | 1 | BHH0706 | 08/23/24 | 08/23/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Noble - Five Rivers K09-21D

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/23/24 10:51

FS01-FL01-M@9'
2408193-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/19/24 11:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 83.0 | | % | 1 | BHH0539 | 08/20/24 | 08/22/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/19/24 11:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.348 | 0.0100 | mmhos/cm | 1 | BHH0545 | 08/20/24 | 08/21/24 | EPA 120.1 | |

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

Date Sampled: **08/19/24 11:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.00 | | pH Units | 1 | BHH0546 | 08/20/24 | 08/21/24 | EPA 9045D | |

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Project: Noble - Five Rivers K09-21D

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/23/24 10:51

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 BHH0516 - EPA 5030 Soil MS

Blank (BHH0516-BLK1)

Prepared & Analyzed: 08/19/24

| | | | | | | | | | | |
|---|--------|--------|-------|--------|--|------|--------|--|--|--|
| 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> | 0.0394 | | " | 0.0400 | | 98.4 | 50-150 | | | |
| <i>Surrogate: Toluene-d8</i> | 0.0390 | | " | 0.0400 | | 97.6 | 50-150 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0390 | | " | 0.0400 | | 97.5 | 50-150 | | | |

LCS (BHH0516-BS1)

Prepared & Analyzed: 08/19/24

| | | | | | | | | | | |
|---|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene | 0.0994 | 0.0020 | mg/kg | 0.100 | | 99.4 | 70-130 | | | |
| Toluene | 0.0985 | 0.0050 | " | 0.100 | | 98.5 | 70-130 | | | |
| Ethylbenzene | 0.100 | 0.0050 | " | 0.100 | | 100 | 70-130 | | | |
| m,p-Xylene | 0.202 | 0.010 | " | 0.200 | | 101 | 70-130 | | | |
| o-Xylene | 0.103 | 0.0050 | " | 0.100 | | 103 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.0982 | 0.0050 | " | 0.100 | | 98.2 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.0975 | 0.0050 | " | 0.100 | | 97.5 | 70-130 | | | |
| Naphthalene | 0.0902 | 0.0038 | " | 0.100 | | 90.2 | 70-130 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0384 | | " | 0.0400 | | 96.0 | 50-150 | | | |
| <i>Surrogate: Toluene-d8</i> | 0.0388 | | " | 0.0400 | | 97.0 | 50-150 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0390 | | " | 0.0400 | | 97.6 | 50-150 | | | |

Matrix Spike (BHH0516-MS1)

Source: 2408183-01

Prepared & Analyzed: 08/19/24

| | | | | | | | | | | |
|---|--------|--------|-------|--------|----|------|--------|--|--|--|
| Benzene | 0.0972 | 0.0020 | mg/kg | 0.100 | ND | 97.2 | 70-130 | | | |
| Toluene | 0.0972 | 0.0050 | " | 0.100 | ND | 97.2 | 70-130 | | | |
| Ethylbenzene | 0.0941 | 0.0050 | " | 0.100 | ND | 94.1 | 70-130 | | | |
| m,p-Xylene | 0.190 | 0.010 | " | 0.200 | ND | 95.2 | 70-130 | | | |
| o-Xylene | 0.0948 | 0.0050 | " | 0.100 | ND | 94.8 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.0873 | 0.0050 | " | 0.100 | ND | 87.3 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.0876 | 0.0050 | " | 0.100 | ND | 87.6 | 70-130 | | | |
| Naphthalene | 0.0804 | 0.0038 | " | 0.100 | ND | 80.4 | 70-130 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0419 | | " | 0.0400 | | 105 | 50-150 | | | |
| <i>Surrogate: Toluene-d8</i> | 0.0409 | | " | 0.0400 | | 102 | 50-150 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0392 | | " | 0.0400 | | 98.0 | 50-150 | | | |

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Five Rivers K09-21D

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/23/24 10:51

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 BHH0516 - EPA 5030 Soil MS

| Matrix Spike Dup (BHH0516-MSD1) | Source: 2408183-01 | | | Prepared & Analyzed: 08/19/24 | | | | | | |
|---|---------------------------|--------|----------|--|----|-------------|---------------|-------|----|--|
| Benzene | 0.0937 | 0.0020 | mg/kg | 0.100 | ND | 93.7 | 70-130 | 3.74 | 30 | |
| Toluene | 0.0935 | 0.0050 | " | 0.100 | ND | 93.5 | 70-130 | 3.90 | 30 | |
| Ethylbenzene | 0.0987 | 0.0050 | " | 0.100 | ND | 98.7 | 70-130 | 4.76 | 30 | |
| m,p-Xylene | 0.203 | 0.010 | " | 0.200 | ND | 101 | 70-130 | 6.33 | 30 | |
| o-Xylene | 0.101 | 0.0050 | " | 0.100 | ND | 101 | 70-130 | 6.16 | 30 | |
| 1,2,4-Trimethylbenzene | 0.0950 | 0.0050 | " | 0.100 | ND | 95.0 | 70-130 | 8.49 | 30 | |
| 1,3,5-Trimethylbenzene | 0.0962 | 0.0050 | " | 0.100 | ND | 96.2 | 70-130 | 9.37 | 30 | |
| Naphthalene | 0.0806 | 0.0038 | " | 0.100 | ND | 80.6 | 70-130 | 0.224 | 30 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>0.0374</i> | | <i>"</i> | <i>0.0400</i> | | <i>93.4</i> | <i>50-150</i> | | | |
| <i>Surrogate: Toluene-d8</i> | <i>0.0388</i> | | <i>"</i> | <i>0.0400</i> | | <i>97.0</i> | <i>50-150</i> | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>0.0397</i> | | <i>"</i> | <i>0.0400</i> | | <i>99.3</i> | <i>50-150</i> | | | |

Summit Scientific

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

Project: Noble - Five Rivers K09-21D

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/23/24 10:51

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 BHH0518 - EPA 3550A

Blank (BHH0518-BLK1)

Prepared & Analyzed: 08/19/24

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|--|-----|--|--------|--|--|--|
| C10-C28 (DRO) | ND | 50 | mg/kg | | | | | | | | |
| C28-C36 (ORO) | ND | 50 | " | | | | | | | | |
| Surrogate: <i>o</i> -Terphenyl | 15.2 | | " | 12.5 | | 122 | | 30-150 | | | |

LCS (BHH0518-BS1)

Prepared & Analyzed: 08/19/24

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|--|-----|--|--------|--|--|--|
| C10-C28 (DRO) | 515 | 50 | mg/kg | 500 | | 103 | | 70-130 | | | |
| Surrogate: <i>o</i> -Terphenyl | 15.1 | | " | 12.5 | | 121 | | 30-150 | | | |

Matrix Spike (BHH0518-MS1)

Source: 2408183-01

Prepared & Analyzed: 08/19/24

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|------|------|--|--------|--|--|--|
| C10-C28 (DRO) | 498 | 50 | mg/kg | 500 | 11.8 | 97.3 | | 70-130 | | | |
| Surrogate: <i>o</i> -Terphenyl | 13.5 | | " | 12.5 | | 108 | | 30-150 | | | |

Matrix Spike Dup (BHH0518-MSD1)

Source: 2408183-01

Prepared & Analyzed: 08/19/24

| | | | | | | | | | | | |
|--------------------------------|------|----|-------|------|------|------|--|--------|------|----|-------|
| C10-C28 (DRO) | 405 | 50 | mg/kg | 500 | 11.8 | 78.7 | | 70-130 | 20.6 | 20 | QR-02 |
| Surrogate: <i>o</i> -Terphenyl | 14.1 | | " | 12.5 | | 113 | | 30-150 | | | |

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

Project: Noble - Five Rivers K09-21D

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/23/24 10:51

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 BHH0525 - EPA 5030 Soil MS

Blank (BHH0525-BLK1)

Prepared & Analyzed: 08/20/24

| | | | | | | | | | | |
|---|--------|---------|-------|--------|--|------|--------|--|--|--|
| Acenaphthene | ND | 0.00500 | mg/kg | | | | | | | |
| Anthracene | ND | 0.00500 | " | | | | | | | |
| Benzo (a) anthracene | ND | 0.00500 | " | | | | | | | |
| Benzo (a) pyrene | ND | 0.00500 | " | | | | | | | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | | | | | | | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | | | | | | | |
| Chrysene | ND | 0.00500 | " | | | | | | | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | | | | | | | |
| Fluoranthene | ND | 0.00500 | " | | | | | | | |
| Fluorene | ND | 0.00500 | " | | | | | | | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | | | | | | | |
| Pyrene | ND | 0.00500 | " | | | | | | | |
| 1-Methylnaphthalene | ND | 0.00500 | " | | | | | | | |
| 2-Methylnaphthalene | ND | 0.00500 | " | | | | | | | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | 0.0278 | | " | 0.0333 | | 83.3 | 40-150 | | | |
| <i>Surrogate: Fluoranthene-d10</i> | 0.0316 | | " | 0.0333 | | 94.7 | 40-150 | | | |

LCS (BHH0525-BS1)

Prepared & Analyzed: 08/20/24

| | | | | | | | | | | |
|---|--------|---------|-------|--------|--|------|--------|--|--|--|
| Acenaphthene | 0.0233 | 0.00500 | mg/kg | 0.0333 | | 69.9 | 31-137 | | | |
| Anthracene | 0.0245 | 0.00500 | " | 0.0333 | | 73.4 | 30-120 | | | |
| Benzo (a) anthracene | 0.0252 | 0.00500 | " | 0.0333 | | 75.6 | 30-120 | | | |
| Benzo (a) pyrene | 0.0232 | 0.00500 | " | 0.0333 | | 69.5 | 30-120 | | | |
| Benzo (b) fluoranthene | 0.0227 | 0.00500 | " | 0.0333 | | 68.0 | 30-120 | | | |
| Benzo (k) fluoranthene | 0.0217 | 0.00500 | " | 0.0333 | | 65.1 | 30-120 | | | |
| Chrysene | 0.0239 | 0.00500 | " | 0.0333 | | 71.6 | 30-120 | | | |
| Dibenz (a,h) anthracene | 0.0232 | 0.00500 | " | 0.0333 | | 69.7 | 30-120 | | | |
| Fluoranthene | 0.0243 | 0.00500 | " | 0.0333 | | 72.8 | 30-120 | | | |
| Fluorene | 0.0259 | 0.00500 | " | 0.0333 | | 77.8 | 30-120 | | | |
| Indeno (1,2,3-cd) pyrene | 0.0251 | 0.00500 | " | 0.0333 | | 75.2 | 30-120 | | | |
| Pyrene | 0.0257 | 0.00500 | " | 0.0333 | | 77.2 | 35-142 | | | |
| 1-Methylnaphthalene | 0.0237 | 0.00500 | " | 0.0333 | | 71.1 | 35-142 | | | |
| 2-Methylnaphthalene | 0.0194 | 0.00500 | " | 0.0333 | | 58.3 | 35-142 | | | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | 0.0249 | | " | 0.0333 | | 74.6 | 40-150 | | | |
| <i>Surrogate: Fluoranthene-d10</i> | 0.0247 | | " | 0.0333 | | 74.1 | 40-150 | | | |

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

Project: Noble - Five Rivers K09-21D

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/23/24 10:51

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 BHH0525 - EPA 5030 Soil MS

| Matrix Spike (BHH0525-MS1) | Source: 2408187-01 | | | Prepared & Analyzed: 08/20/24 | | | | | | |
|---|---------------------------|---------|----------|--|----|-------------|---------------|--|--|--|
| Acenaphthene | 0.0220 | 0.00500 | mg/kg | 0.0333 | ND | 66.1 | 31-137 | | | |
| Anthracene | 0.0228 | 0.00500 | " | 0.0333 | ND | 68.3 | 30-120 | | | |
| Benzo (a) anthracene | 0.0242 | 0.00500 | " | 0.0333 | ND | 72.5 | 30-120 | | | |
| Benzo (a) pyrene | 0.0216 | 0.00500 | " | 0.0333 | ND | 64.8 | 30-120 | | | |
| Benzo (b) fluoranthene | 0.0209 | 0.00500 | " | 0.0333 | ND | 62.7 | 30-120 | | | |
| Benzo (k) fluoranthene | 0.0200 | 0.00500 | " | 0.0333 | ND | 59.9 | 30-120 | | | |
| Chrysene | 0.0225 | 0.00500 | " | 0.0333 | ND | 67.6 | 30-120 | | | |
| Dibenz (a,h) anthracene | 0.0216 | 0.00500 | " | 0.0333 | ND | 64.9 | 30-120 | | | |
| Fluoranthene | 0.0222 | 0.00500 | " | 0.0333 | ND | 66.6 | 30-120 | | | |
| Fluorene | 0.0257 | 0.00500 | " | 0.0333 | ND | 77.2 | 30-120 | | | |
| Indeno (1,2,3-cd) pyrene | 0.0230 | 0.00500 | " | 0.0333 | ND | 69.1 | 30-120 | | | |
| Pyrene | 0.0251 | 0.00500 | " | 0.0333 | ND | 75.2 | 35-142 | | | |
| 1-Methylnaphthalene | 0.0226 | 0.00500 | " | 0.0333 | ND | 67.8 | 15-130 | | | |
| 2-Methylnaphthalene | 0.0182 | 0.00500 | " | 0.0333 | ND | 54.6 | 15-130 | | | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0238</i> | | <i>"</i> | <i>0.0333</i> | | <i>71.5</i> | <i>40-150</i> | | | |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0228</i> | | <i>"</i> | <i>0.0333</i> | | <i>68.5</i> | <i>40-150</i> | | | |

| Matrix Spike Dup (BHH0525-MSD1) | Source: 2408187-01 | | | Prepared & Analyzed: 08/20/24 | | | | | | |
|---|---------------------------|---------|----------|--|----|-------------|---------------|------|----|--|
| Acenaphthene | 0.0212 | 0.00500 | mg/kg | 0.0333 | ND | 63.7 | 31-137 | 3.76 | 30 | |
| Anthracene | 0.0215 | 0.00500 | " | 0.0333 | ND | 64.5 | 30-120 | 5.75 | 30 | |
| Benzo (a) anthracene | 0.0225 | 0.00500 | " | 0.0333 | ND | 67.5 | 30-120 | 7.15 | 30 | |
| Benzo (a) pyrene | 0.0206 | 0.00500 | " | 0.0333 | ND | 61.9 | 30-120 | 4.59 | 30 | |
| Benzo (b) fluoranthene | 0.0198 | 0.00500 | " | 0.0333 | ND | 59.5 | 30-120 | 5.19 | 30 | |
| Benzo (k) fluoranthene | 0.0187 | 0.00500 | " | 0.0333 | ND | 56.0 | 30-120 | 6.77 | 30 | |
| Chrysene | 0.0210 | 0.00500 | " | 0.0333 | ND | 63.1 | 30-120 | 6.88 | 30 | |
| Dibenz (a,h) anthracene | 0.0210 | 0.00500 | " | 0.0333 | ND | 63.0 | 30-120 | 2.87 | 30 | |
| Fluoranthene | 0.0210 | 0.00500 | " | 0.0333 | ND | 63.0 | 30-120 | 5.56 | 30 | |
| Fluorene | 0.0244 | 0.00500 | " | 0.0333 | ND | 73.1 | 30-120 | 5.41 | 30 | |
| Indeno (1,2,3-cd) pyrene | 0.0224 | 0.00500 | " | 0.0333 | ND | 67.1 | 30-120 | 2.96 | 30 | |
| Pyrene | 0.0234 | 0.00500 | " | 0.0333 | ND | 70.1 | 35-142 | 7.05 | 30 | |
| 1-Methylnaphthalene | 0.0204 | 0.00500 | " | 0.0333 | ND | 61.3 | 15-130 | 10.1 | 50 | |
| 2-Methylnaphthalene | 0.0168 | 0.00500 | " | 0.0333 | ND | 50.4 | 15-130 | 7.98 | 50 | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0204</i> | | <i>"</i> | <i>0.0333</i> | | <i>61.1</i> | <i>40-150</i> | | | |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0215</i> | | <i>"</i> | <i>0.0333</i> | | <i>64.5</i> | <i>40-150</i> | | | |

Summit Scientific

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

Project: Noble - Five Rivers K09-21D

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/23/24 10:51

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

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

Batch BHH0577 - EPA 3050B

Blank (BHH0577-BLK1)

Prepared: 08/21/24 Analyzed: 08/22/24

Boron ND 2.00 mg/L

LCS (BHH0577-BS1)

Prepared: 08/21/24 Analyzed: 08/22/24

Boron 4.69 2.00 mg/L 5.00 93.7 80-120

Duplicate (BHH0577-DUP1)

Source: 2408123-08

Prepared: 08/21/24 Analyzed: 08/22/24

Boron 0.154 2.00 mg/L 0.155 0.462 20

Matrix Spike (BHH0577-MS1)

Source: 2408123-08

Prepared: 08/21/24 Analyzed: 08/22/24

Boron 4.83 2.00 mg/L 5.00 0.155 93.4 75-125

Matrix Spike Dup (BHH0577-MSD1)

Source: 2408123-08

Prepared: 08/21/24 Analyzed: 08/22/24

Boron 4.83 2.00 mg/L 5.00 0.155 93.5 75-125 0.0358 25

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

Project: Noble - Five Rivers K09-21D

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/23/24 10:51

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHH0528 - EPA 3050B

Blank (BHH0528-BLK1)

Prepared & Analyzed: 08/20/24

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

LCS (BHH0528-BS1)

Prepared & Analyzed: 08/20/24

| | | | | | | | | | | |
|----------|------|--------|-----------|--|--|--------|--|--|--|--|
| Arsenic | 32.8 | 0.179 | mg/kg wet | | | 80-120 | | | | |
| Barium | 34.6 | 0.357 | " | | | 80-120 | | | | |
| Cadmium | 1.71 | 0.179 | " | | | 80-120 | | | | |
| Copper | 33.3 | 0.357 | " | | | 80-120 | | | | |
| Lead | 16.6 | 0.179 | " | | | 80-120 | | | | |
| Nickel | 33.1 | 0.357 | " | | | 80-120 | | | | |
| Silver | 1.68 | 0.0179 | " | | | 80-120 | | | | |
| Zinc | 33.1 | 0.357 | " | | | 80-120 | | | | |
| Selenium | 4.10 | 0.232 | " | | | 80-120 | | | | |

Duplicate (BHH0528-DUP1)

Source: 2408168-01

Prepared & Analyzed: 08/20/24

| | | | | | | | | | |
|----------|-------|--------|-----------|--------|--|------|----|--|-------|
| Arsenic | 4.61 | 0.200 | mg/kg dry | 5.97 | | 25.6 | 20 | | QR-04 |
| Barium | 122 | 0.400 | " | 145 | | 16.9 | 20 | | |
| Cadmium | 0.288 | 0.200 | " | 0.355 | | 21.0 | 20 | | QR-01 |
| Copper | 8.48 | 0.400 | " | 7.90 | | 7.08 | 20 | | |
| Lead | 18.0 | 0.200 | " | 14.8 | | 19.8 | 20 | | |
| Nickel | 7.43 | 0.400 | " | 7.66 | | 3.10 | 20 | | |
| Silver | 0.145 | 0.0200 | " | 0.0914 | | 45.1 | 20 | | QR-01 |
| Zinc | 27.4 | 0.400 | " | 27.0 | | 1.82 | 20 | | |
| Selenium | 0.277 | 0.260 | " | 0.343 | | 21.3 | 20 | | QR-01 |

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

Project: Noble - Five Rivers K09-21D

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/23/24 10:51

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 BHH0528 - EPA 3050B

Matrix Spike (BHH0528-MS1)

Source: 2408168-01

Prepared & Analyzed: 08/20/24

| | | | | | | | | | | |
|----------|------|--------|-----------|--|--------|--|--------|--|--|--|
| Arsenic | 50.4 | 0.200 | mg/kg dry | | 5.97 | | 75-125 | | | |
| Barium | 171 | 0.400 | " | | 145 | | 75-125 | | | |
| Cadmium | 2.67 | 0.200 | " | | 0.355 | | 75-125 | | | |
| Copper | 31.5 | 0.400 | " | | 7.90 | | 75-125 | | | |
| Lead | 38.0 | 0.200 | " | | 14.8 | | 75-125 | | | |
| Nickel | 31.2 | 0.400 | " | | 7.66 | | 75-125 | | | |
| Silver | 2.32 | 0.0200 | " | | 0.0914 | | 75-125 | | | |
| Zinc | 51.6 | 0.400 | " | | 27.0 | | 75-125 | | | |
| Selenium | 5.31 | 0.260 | " | | 0.343 | | 75-125 | | | |

Matrix Spike Dup (BHH0528-MSD1)

Source: 2408168-01

Prepared & Analyzed: 08/20/24

| | | | | | | | | | | |
|----------|------|--------|-----------|--|--------|--|--------|-------|----|--|
| Arsenic | 48.2 | 0.200 | mg/kg dry | | 5.97 | | 75-125 | 4.43 | 25 | |
| Barium | 164 | 0.400 | " | | 145 | | 75-125 | 4.02 | 25 | |
| Cadmium | 2.61 | 0.200 | " | | 0.355 | | 75-125 | 2.22 | 25 | |
| Copper | 31.4 | 0.400 | " | | 7.90 | | 75-125 | 0.155 | 25 | |
| Lead | 37.0 | 0.200 | " | | 14.8 | | 75-125 | 2.68 | 25 | |
| Nickel | 31.3 | 0.400 | " | | 7.66 | | 75-125 | 0.243 | 25 | |
| Silver | 2.29 | 0.0200 | " | | 0.0914 | | 75-125 | 1.48 | 25 | |
| Zinc | 50.6 | 0.400 | " | | 27.0 | | 75-125 | 1.93 | 25 | |
| Selenium | 5.04 | 0.260 | " | | 0.343 | | 75-125 | 5.20 | 25 | |

Summit Scientific

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

Project: Noble - Five Rivers K09-21D

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/23/24 10:51

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHH0531 - 3060A Mod

Blank (BHH0531-BLK1)

Prepared & Analyzed: 08/20/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHH0531-BS1)

Prepared & Analyzed: 08/20/24

Chromium, Hexavalent 27.1 0.30 mg/kg wet 25.0 108 80-120

Duplicate (BHH0531-DUP1)

Source: 2408183-01

Prepared & Analyzed: 08/20/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHH0531-MS1)

Source: 2408183-01

Prepared & Analyzed: 08/20/24

Chromium, Hexavalent 28.6 0.30 mg/kg dry 27.9 ND 103 75-125


Matrix Spike Dup (BHH0531-MSD1)

Source: 2408183-01

Prepared & Analyzed: 08/20/24

Chromium, Hexavalent 28.4 0.30 mg/kg dry 27.9 ND 102 75-125 0.783 20

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

Project: Noble - Five Rivers K09-21D

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/23/24 10:51

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 BHH0544 - General Preparation

Blank (BHH0544-BLK1)

Prepared: 08/20/24 Analyzed: 08/22/24

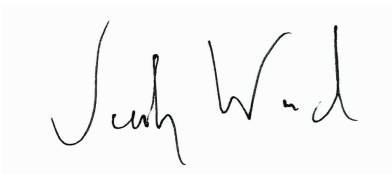
| | | | | | | | | | | |
|-----------|----|--------|----------|--|--|--|--|--|--|--|
| Calcium | ND | 0.0500 | mg/L wet | | | | | | | |
| Magnesium | ND | 0.0500 | " | | | | | | | |
| Sodium | ND | 0.0500 | " | | | | | | | |

LCS (BHH0544-BS1)

Prepared: 08/20/24 Analyzed: 08/22/24

| | | | | | | | | | | |
|-----------|------|--------|----------|------|--|------|--------|--|--|--|
| Calcium | 4.87 | 0.0500 | mg/L wet | 5.00 | | 97.4 | 70-130 | | | |
| Magnesium | 4.85 | 0.0500 | " | 5.00 | | 97.0 | 70-130 | | | |
| Sodium | 4.63 | 0.0500 | " | 5.00 | | 92.6 | 70-130 | | | |

Summit Scientific



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

Project: Noble - Five Rivers K09-21D

Project Number: [none]
 Project Manager: Jacob Whritenour

Reported:
 08/23/24 10:51

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 BHH0539 - General Preparation


Duplicate (BHH0539-DUP1)

Source: 2407179-09

Prepared: 08/20/24 Analyzed: 08/22/24

| | | | | | | | | | | |
|----------|------|--|---|--|------|--|--|------|----|--|
| % Solids | 84.2 | | % | | 88.7 | | | 5.11 | 20 | |
|----------|------|--|---|--|------|--|--|------|----|--|

Summit Scientific



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Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/23/24 10:51

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 BHH0545 - General Preparation

Blank (BHH0545-BLK1)

Prepared: 08/20/24 Analyzed: 08/21/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHH0545-BS1)

Prepared: 08/20/24 Analyzed: 08/21/24

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

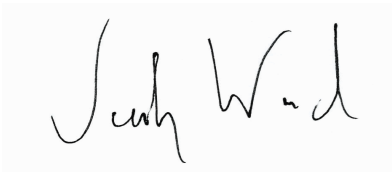
Duplicate (BHH0545-DUP1)

Source: 2408161-01

Prepared: 08/20/24 Analyzed: 08/21/24

Specific Conductance (EC) 1.64 0.0100 mmhos/cm 1.67 1.51 20

Summit Scientific



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Project: Noble - Five Rivers K09-21D

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/23/24 10:51

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

Summit Scientific

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

Batch BHH0546 - General Preparation

LCS (BHH0546-BS1)

Prepared: 08/20/24 Analyzed: 08/21/24

| | | | | | |
|----|------|----------|------|-----|--------|
| pH | 9.22 | pH Units | 9.18 | 100 | 95-105 |
|----|------|----------|------|-----|--------|


Duplicate (BHH0546-DUP1)

Source: 2408161-01

Prepared: 08/20/24 Analyzed: 08/21/24

| | | | | | |
|----|------|----------|------|-------|----|
| pH | 8.13 | pH Units | 8.14 | 0.123 | 20 |
|----|------|----------|------|-------|----|

Summit Scientific



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Project: Noble - Five Rivers K09-21D

Project Number: [none]
Project Manager: Jacob Whritenour

Reported:
08/23/24 10:51

Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QR-01 Analyses are not controlled on RPD values from sample concentrations below 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