

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 06, 2024

Jacob Whritenour

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: Noble - Johnson C29-28 FL

Work Order #2408027

Enclosed are the results of analyses for samples received by Summit Scientific on 08/02/24 17:48. 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, flowing style.

Jacob Wood For Paul Shrewsbury

President



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

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

### ANALYTICAL REPORT FOR SAMPLES

| Sample ID         | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-------------------|---------------|--------|----------------|----------------|
| FS01-FL01-02@4.5' | 2408027-01    | Soil   | 08/02/24 11:07 | 08/02/24 17:48 |
| SS01-FL01-02@3'   | 2408027-02    | Soil   | 08/02/24 09:34 | 08/02/24 17:48 |
| SS02-FL01-02@3'   | 2408027-03    | Soil   | 08/02/24 09:29 | 08/02/24 17:48 |
| SS03-FL01-02@3'   | 2408027-04    | Soil   | 08/02/24 11:09 | 08/02/24 17:48 |
| SS04-FL01-02@3'   | 2408027-05    | Soil   | 08/02/24 11:11 | 08/02/24 17:48 |
| FS01-FL01R-W@4'   | 2408027-06    | Soil   | 08/02/24 14:50 | 08/02/24 17:48 |
| SS01-FL01R-W@3'   | 2408027-07    | Soil   | 08/02/24 14:52 | 08/02/24 17:48 |
| SS02-FL01R-W@3'   | 2408027-08    | Soil   | 08/02/24 14:54 | 08/02/24 17:48 |
| SS03-FL01R-W@3'   | 2408027-09    | Soil   | 08/02/24 14:56 | 08/02/24 17:48 |
| SS04-FL01R-W@3'   | 2408027-10    | Soil   | 08/02/24 14:58 | 08/02/24 17:48 |

Summit Scientific

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|  |  |                                    |  |                                       |  |
|--|--|------------------------------------|--|---------------------------------------|--|
| Client: Noble / Tasman, Inc.           |  | Send Data To:                      |  | Send Invoice To:                      |  |
| Address: 6855 W. 119th Ave.            |  | Project Manager: Jake Whritenour   |  | Company:                              |  |
| City/State/Zip: Broomfield / CO/ 80020 |  | E-Mail: Jwhritenour@tasman-geo.com |  | Project Name/Location: Johnson C29-28 |  |
| Phone: 719-937-1898                    |  | Project Name: Johnson C29-28       |  | AFE#:                                 |  |
| Sampler Name: Josh Adams               |  | Project Number: N/A                |  | PO/Billing Codes:                     |  |
|  |  |                                    |  | Contact: Dan Patterson                |  |

|    |                     |              |              | Preservative    |     |      |      | Matrix |       |      |                | Analysis Requested |              |           |           |           |             |             |      | Special Instructions           |
|----|---------------------|--------------|--------------|-----------------|-----|------|------|--------|-------|------|----------------|--------------------|--------------|-----------|-----------|-----------|-------------|-------------|------|--------------------------------|
| ID | Sample Description  | Date Sampled | Time Sampled | # of containers | HCl | HNO3 | None | Other  | Water | Soil | Air-Canister # | Other              | Metals - 915 | VOC - 915 | TPH - 915 | PAH - 915 | SAR, EC, pH | Boron - HWS | HOLD |                                |
| 1  | FS01-FL01-02 @ 4.5' | 8/2/24       | 1107         | 3               |     |      | X    |        |       | X    |                |                    | X            | X         | X         | X         | X           | X           |      | SAR, EC, pH by saturated paste |
| 2  | SS01-FL01-02 @ 3'   |              | 0924         |                 |     |      |      |        |       |      |                |                    |              |           |           |           |             |             |      |                                |
| 3  | SS02-FL01-02 @ 3'   |              | 0929         |                 |     |      |      |        |       |      |                |                    |              |           |           |           |             |             |      |                                |
| 4  | SS03-FL01-02 @ 3'   |              | 1109         |                 |     |      |      |        |       |      |                |                    |              |           |           |           |             |             |      |                                |
| 5  | SS04-FL01-02 @ 3'   |              | 1111         |                 |     |      |      |        |       |      |                |                    |              |           |           |           |             |             |      |                                |
| 6  | FS01-FL01R-W @ 4'   |              | 1450         |                 |     |      |      |        |       |      |                |                    |              |           |           |           |             |             |      |                                |
| 7  | SS01-FL01R-W @ 3'   |              | 1452         |                 |     |      |      |        |       |      |                |                    |              |           |           |           |             |             |      |                                |
| 8  | SS02-FL01R-W @ 3'   |              | 1454         |                 |     |      |      |        |       |      |                |                    |              |           |           |           |             |             |      |                                |
| 9  | SS03-FL01R-W @ 3'   |              | 1456         |                 |     |      |      |        |       |      |                |                    |              |           |           |           |             |             |      |                                |
| 10 | SS04-FL01R-W @ 3'   |              | 1458         |                 |     |      |      |        |       |      |                |                    |              |           |           |           |             |             |      |                                |
| 11 |                     |              |              |                 |     |      |      |        |       |      |                |                    |              |           |           |           |             |             |      |                                |
| 12 |                     |              |              |                 |     |      |      |        |       |      |                |                    |              |           |           |           |             |             |      |                                |
| 13 |                     |              |              |                 |     |      |      |        |       |      |                |                    |              |           |           |           |             |             |      |                                |
| 14 |                     |              |              |                 |     |      |      |        |       |      |                |                    |              |           |           |           |             |             |      |                                |
| 15 |                     |              |              |                 |     |      |      |        |       |      |                |                    |              |           |           |           |             |             |      |                                |

|                                |            |                         |             |                   |             |        |
|--------------------------------|------------|-------------------------|-------------|-------------------|-------------|--------|
| Relinquished by:               | Date/Time: | Received by:            | Date/Time:  | TAT Business Days | Field DO    | Notes: |
| Josh Adams                     | 8/2/24     |                         | 8/2/24 1743 | Same Day          | Field EC    |        |
| Relinquished by:               | Date/Time: | Received by:            | Date/Time:  | 1 Day             | Field ORP   |        |
| Tasman Geo                     | 8224       |                         | 8224        | 2 Days            | Field pH    |        |
| Relinquished by:               | Date/Time: | Received by:            | Date/Time:  | 3 Days            | Field Temp. |        |
|                                |            |                         |             | Standard          | Field Turb. |        |
| Temperature Upon Receipt: 12.1 |            | Corrected Temperature 8 |             | IR gun #: 1       | HNO3 lot #: |        |

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2408027Client: NoblemanClient Project ID: Johnson C29-28Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐Airbill #: ☐

|                          |                          |                          |                          |                          |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|

Matrix (Check all that apply)

Air

☐

Soil

Solid☐

Water

☐

Other

☐

Temp (°C)

12.1

Thermometer #

1

|   | Yes                                 | No                                  | N/A                                 | Comments (if any) |
|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| If samples require cooling, is the temperature < 6°C? <sup>(1)</sup><br>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"/>            | on ice            |
| If custody seals are present, are they intact? <sup>(1)</sup>   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| 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?<br>Note the short hold analysis in the comments column<br>- pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Were all samples received intact? <sup>(1)</sup>  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Was adequate sample volume provided? <sup>(1)</sup>   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>  | <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)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                   |
| If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> 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):   |                                     |                                     |                                     |                   |
|   |                                     |                                     |                                     |                   |
|   |                                     |                                     |                                     |                   |

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.
AS  
Custodian Printed Name

8/2/24  
Date/Time



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

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**FS01-FL01-02@4.5'**  
**2408027-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/02/24 11:07**

| Analyte                     | Result | Reporting |       | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|                             |        | Limit     | Units |          |         |          |          |           |       |
| Benzene                     | ND     | 0.0020    | mg/kg | 1        | BHH0090 | 08/02/24 | 08/02/24 | 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: **08/02/24 11:07**

| Analyte                          | Result | Reporting |        | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     | Units  |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0455 | 114 %     | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0416 | 104 %     | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0419 | 105 %     | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/02/24 11:07**

| Analyte       | Result | Reporting |       | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     | Units |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        | mg/kg | 1        | BHH0091 | 08/02/24 | 08/03/24 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **08/02/24 11:07**

| Analyte                | Result | Reporting |        | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     | Units  |          |       |          |          |        |       |
| Surrogate: o-Terphenyl | 10.5   | 84.1 %    | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**FS01-FL01-02@4.5'**  
**2408027-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/02/24 11:07**

| Analyte                  | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|--------------------------|--------|-----------|-------|----------|---------|----------|----------|---------------|-------|
|                          |        | Limit     |       |          |         |          |          |               |       |
| Acenaphthene             | ND     | 0.00500   | mg/kg | 1        | BHH0097 | 08/05/24 | 08/06/24 | 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: **08/02/24 11:07**

| Analyte                            | Result | Reporting | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
|                                    |        | Limit     |        |          |       |          |          |        |       |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0157 | 47.0 %    | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0172 | 51.5 %    | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **08/02/24 11:07**

| Analyte | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     |       |          |         |          |          |           |       |
| Boron   | ND     | 2.00      | mg/L  | 1        | BHH0107 | 08/05/24 | 08/06/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **08/02/24 11:07**

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

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Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**FS01-FL01-02@4.5'**  
**2408027-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

|          |        |        |           |   |         |          |          |           |
|----------|--------|--------|-----------|---|---------|----------|----------|-----------|
| Arsenic  | 1.56   | 0.200  | mg/kg dry | 1 | BHH0101 | 08/05/24 | 08/05/24 | EPA 6020B |
| Barium   | 61.5   | 0.400  | "         | " | "       | "        | "        | "         |
| Cadmium  | ND     | 0.200  | "         | " | "       | "        | "        | "         |
| Copper   | 2.57   | 0.400  | "         | " | "       | "        | "        | "         |
| Lead     | 4.06   | 0.200  | "         | " | "       | "        | "        | "         |
| Nickel   | 3.86   | 0.400  | "         | " | "       | "        | "        | "         |
| Silver   | 0.0205 | 0.0200 | "         | " | "       | "        | "        | "         |
| Zinc     | 13.7   | 0.400  | "         | " | "       | "        | "        | "         |
| Selenium | ND     | 0.260  | "         | " | "       | "        | "        | "         |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/02/24 11:07**

| Analyte              | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            | mg/kg dry | 1        | BHH0105 | 08/05/24 | 08/05/24 | EPA 7196A |       |

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

Date Sampled: **08/02/24 11:07**

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 89.4   | 0.0500          | mg/L dry | 1        | BHH0087 | 08/02/24 | 08/06/24 | EPA 6020B |       |
| Magnesium | 8.07   | 0.0500          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 58.4   | 0.0500          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **08/02/24 11:07**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 1.59   | 0.00100         | units | 1        | BHH0128 | 08/06/24 | 08/06/24 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

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6855 W. 119th Ave.  
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Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**FS01-FL01-02@4.5'**  
**2408027-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/02/24 11:07**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 80.0   |                 | %     | 1        | BHH0075 | 08/05/24 | 08/05/24 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/02/24 11:07**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.433  | 0.0100          | mmhos/cm | 1        | BHH0088 | 08/02/24 | 08/05/24 | EPA 120.1 |       |

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

Date Sampled: **08/02/24 11:07**

| Analyte | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH      | 8.49   |                 | pH Units | 1        | BHH0089 | 08/02/24 | 08/05/24 | EPA 9045D |       |

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Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**SS01-FL01-02@3'**  
**2408027-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/02/24 09:34**

| Analyte                     | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|                             |        | Limit     |       |          |         |          |          |           |       |
| Benzene                     | ND     | 0.0020    | mg/kg | 1        | BHH0090 | 08/02/24 | 08/02/24 | 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: **08/02/24 09:34**

| Analyte                          | Result | Reporting | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0383 | 95.7 %    | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0404 | 101 %     | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0396 | 99.1 %    | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/02/24 09:34**

| Analyte       | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     |       |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        | mg/kg | 1        | BHH0091 | 08/02/24 | 08/03/24 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **08/02/24 09:34**

| Analyte                | Result | Reporting | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl | 6.80   | 54.4 %    | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

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

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**SS01-FL01-02@3'**  
**2408027-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/02/24 09:34**

| Analyte                  | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|--------------------------|--------|-----------|-------|----------|---------|----------|----------|---------------|-------|
|                          |        | Limit     |       |          |         |          |          |               |       |
| Acenaphthene             | ND     | 0.00500   | mg/kg | 1        | BHH0097 | 08/05/24 | 08/06/24 | 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: **08/02/24 09:34**

| Analyte                            | Result | Reporting | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
|                                    |        | Limit     |        |          |       |          |          |        |       |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0159 | 47.7 %    | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0194 | 58.2 %    | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **08/02/24 09:34**

| Analyte | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     |       |          |         |          |          |           |       |
| Boron   | ND     | 2.00      | mg/L  | 1        | BHH0107 | 08/05/24 | 08/06/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **08/02/24 09:34**

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

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

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**SS01-FL01-02@3'**  
**2408027-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

|          |        |        |           |   |         |          |          |           |
|----------|--------|--------|-----------|---|---------|----------|----------|-----------|
| Arsenic  | 1.79   | 0.200  | mg/kg dry | 1 | BHH0101 | 08/05/24 | 08/05/24 | EPA 6020B |
| Barium   | 91.7   | 0.400  | "         | " | "       | "        | "        | "         |
| Cadmium  | ND     | 0.200  | "         | " | "       | "        | "        | "         |
| Copper   | 3.93   | 0.400  | "         | " | "       | "        | "        | "         |
| Lead     | 5.55   | 0.200  | "         | " | "       | "        | "        | "         |
| Nickel   | 4.45   | 0.400  | "         | " | "       | "        | "        | "         |
| Silver   | 0.0352 | 0.0200 | "         | " | "       | "        | "        | "         |
| Zinc     | 17.7   | 0.400  | "         | " | "       | "        | "        | "         |
| Selenium | ND     | 0.260  | "         | " | "       | "        | "        | "         |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/02/24 09:34**

| Analyte              | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            | mg/kg dry | 1        | BHH0105 | 08/05/24 | 08/05/24 | EPA 7196A |       |

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

Date Sampled: **08/02/24 09:34**

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 95.6   | 0.0500          | mg/L dry | 1        | BHH0087 | 08/02/24 | 08/06/24 | EPA 6020B |       |
| Magnesium | 14.9   | 0.0500          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 46.9   | 0.0500          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **08/02/24 09:34**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 1.18   | 0.00100         | units | 1        | BHH0128 | 08/06/24 | 08/06/24 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

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

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**SS01-FL01-02@3'**  
**2408027-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/02/24 09:34**

| Analyte  | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------|--|-------|----------|---------|----------|----------|-------------|-------|
|          |        | Limit     |  |       |          |         |          |          |             |       |
| % Solids | 89.9   |           |  | %     | 1        | BHH0075 | 08/05/24 | 08/05/24 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/02/24 09:34**

| Analyte                   | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|                           |        | Limit     |  |          |          |         |          |          |           |       |
| Specific Conductance (EC) | 0.332  | 0.0100    |  | mmhos/cm | 1        | BHH0088 | 08/02/24 | 08/05/24 | EPA 120.1 |       |

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

Date Sampled: **08/02/24 09:34**

| Analyte | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     |  |          |          |         |          |          |           |       |
| pH      | 8.71   |           |  | pH Units | 1        | BHH0089 | 08/02/24 | 08/05/24 | EPA 9045D |       |

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

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**SS02-FL01-02@3'**  
**2408027-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/02/24 09:29**

| Analyte                     | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|                             |        | Limit     |       |          |         |          |          |           |       |
| Benzene                     | ND     | 0.0020    | mg/kg | 1        | BHH0090 | 08/02/24 | 08/02/24 | 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: **08/02/24 09:29**

| Analyte                          | Result | Reporting | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0390 | 97.4 %    | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0390 | 97.5 %    | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0402 | 101 %     | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/02/24 09:29**

| Analyte       | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     |       |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        | mg/kg | 1        | BHH0091 | 08/02/24 | 08/03/24 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **08/02/24 09:29**

| Analyte                | Result | Reporting | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl | 8.62   | 68.9 %    | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**SS02-FL01-02@3'**  
**2408027-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/02/24 09:29**

| Analyte                  | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|--------------------------|--------|-----------|-------|----------|---------|----------|----------|---------------|-------|
|                          |        | Limit     |       |          |         |          |          |               |       |
| Acenaphthene             | ND     | 0.00500   | mg/kg | 1        | BHH0097 | 08/05/24 | 08/06/24 | 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: **08/02/24 09:29**

| Analyte                            | Result | Reporting | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
|                                    |        | Limit     |        |          |       |          |          |        |       |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0146 | 43.8 %    | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0140 | 42.0 %    | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **08/02/24 09:29**

| Analyte | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     |       |          |         |          |          |           |       |
| Boron   | ND     | 2.00      | mg/L  | 1        | BHH0107 | 08/05/24 | 08/06/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **08/02/24 09:29**

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

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

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**SS02-FL01-02@3'**  
**2408027-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

|          |        |        |           |   |         |          |          |           |
|----------|--------|--------|-----------|---|---------|----------|----------|-----------|
| Arsenic  | 1.68   | 0.200  | mg/kg dry | 1 | BHH0101 | 08/05/24 | 08/05/24 | EPA 6020B |
| Barium   | 53.8   | 0.400  | "         | " | "       | "        | "        | "         |
| Cadmium  | ND     | 0.200  | "         | " | "       | "        | "        | "         |
| Copper   | 2.98   | 0.400  | "         | " | "       | "        | "        | "         |
| Lead     | 4.08   | 0.200  | "         | " | "       | "        | "        | "         |
| Nickel   | 3.64   | 0.400  | "         | " | "       | "        | "        | "         |
| Silver   | 0.0281 | 0.0200 | "         | " | "       | "        | "        | "         |
| Zinc     | 14.1   | 0.400  | "         | " | "       | "        | "        | "         |
| Selenium | ND     | 0.260  | "         | " | "       | "        | "        | "         |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/02/24 09:29**

| Analyte              | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            | mg/kg dry | 1        | BHH0105 | 08/05/24 | 08/05/24 | EPA 7196A |       |

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

Date Sampled: **08/02/24 09:29**

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 325    | 0.0500          | mg/L dry | 1        | BHH0087 | 08/02/24 | 08/06/24 | EPA 6020B |       |
| Magnesium | 56.6   | 0.0500          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 62.4   | 0.0500          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **08/02/24 09:29**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.840  | 0.00100         | units | 1        | BHH0128 | 08/06/24 | 08/06/24 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

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

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**SS02-FL01-02@3'**  
**2408027-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/02/24 09:29**

| Analyte  | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------|--|-------|----------|---------|----------|----------|-------------|-------|
|          |        | Limit     |  |       |          |         |          |          |             |       |
| % Solids | 89.7   |           |  | %     | 1        | BHH0075 | 08/05/24 | 08/05/24 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/02/24 09:29**

| Analyte                   | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|                           |        | Limit     |  |          |          |         |          |          |           |       |
| Specific Conductance (EC) | 0.287  | 0.0100    |  | mmhos/cm | 1        | BHH0088 | 08/02/24 | 08/05/24 | EPA 120.1 |       |

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

Date Sampled: **08/02/24 09:29**

| Analyte | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     |  |          |          |         |          |          |           |       |
| pH      | 8.90   |           |  | pH Units | 1        | BHH0089 | 08/02/24 | 08/05/24 | EPA 9045D |       |

Summit Scientific

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**SS03-FL01-02@3'**  
**2408027-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/02/24 11:09**

| Analyte                     | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|                             |        | Limit     |       |          |         |          |          |           |       |
| Benzene                     | ND     | 0.0020    | mg/kg | 1        | BHH0090 | 08/02/24 | 08/02/24 | 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: **08/02/24 11:09**

| Analyte                          | Result | Reporting | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0412 | 103 %     | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0397 | 99.2 %    | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0408 | 102 %     | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/02/24 11:09**

| Analyte       | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     |       |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        | mg/kg | 1        | BHH0091 | 08/02/24 | 08/03/24 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **08/02/24 11:09**

| Analyte                | Result | Reporting | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl | 8.10   | 64.8 %    | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

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

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**SS03-FL01-02@3'**  
**2408027-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/02/24 11:09**

| Analyte                  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene             | ND     | 0.00500         | mg/kg | 1        | BHH0097 | 08/05/24 | 08/06/24 | 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: **08/02/24 11:09**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0157 | 47.0 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0189 | 56.6 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **08/02/24 11:09**


| Analyte | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron   | ND     | 2.00            | mg/L  | 1        | BHH0107 | 08/05/24 | 08/06/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **08/02/24 11:09**

| 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 - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**SS03-FL01-02@3'**  
**2408027-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

|          |        |        |           |   |         |          |          |           |
|----------|--------|--------|-----------|---|---------|----------|----------|-----------|
| Arsenic  | 1.75   | 0.200  | mg/kg dry | 1 | BHH0101 | 08/05/24 | 08/05/24 | EPA 6020B |
| Barium   | 49.9   | 0.400  | "         | " | "       | "        | "        | "         |
| Cadmium  | ND     | 0.200  | "         | " | "       | "        | "        | "         |
| Copper   | 2.69   | 0.400  | "         | " | "       | "        | "        | "         |
| Lead     | 4.17   | 0.200  | "         | " | "       | "        | "        | "         |
| Nickel   | 3.89   | 0.400  | "         | " | "       | "        | "        | "         |
| Silver   | 0.0267 | 0.0200 | "         | " | "       | "        | "        | "         |
| Zinc     | 13.5   | 0.400  | "         | " | "       | "        | "        | "         |
| Selenium | ND     | 0.260  | "         | " | "       | "        | "        | "         |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/02/24 11:09**

| Analyte              | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            | mg/kg dry | 1        | BHH0105 | 08/05/24 | 08/05/24 | EPA 7196A |       |

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

Date Sampled: **08/02/24 11:09**

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 479    | 0.0500          | mg/L dry | 1        | BHH0087 | 08/02/24 | 08/06/24 | EPA 6020B |       |
| Magnesium | 105    | 0.0500          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 96.6   | 0.0500          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **08/02/24 11:09**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 1.04   | 0.00100         | units | 1        | BHH0128 | 08/06/24 | 08/06/24 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

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

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**SS03-FL01-02@3'**  
**2408027-04 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/02/24 11:09**

| Analyte  | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------|--|-------|----------|---------|----------|----------|-------------|-------|
|          |        | Limit     |  |       |          |         |          |          |             |       |
| % Solids | 87.2   |           |  | %     | 1        | BHH0075 | 08/05/24 | 08/05/24 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/02/24 11:09**

| Analyte                   | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|                           |        | Limit     |  |          |          |         |          |          |           |       |
| Specific Conductance (EC) | 0.422  | 0.0100    |  | mmhos/cm | 1        | BHH0088 | 08/02/24 | 08/05/24 | EPA 120.1 |       |

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

Date Sampled: **08/02/24 11:09**

| Analyte | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     |  |          |          |         |          |          |           |       |
| pH      | 8.58   |           |  | pH Units | 1        | BHH0089 | 08/02/24 | 08/05/24 | EPA 9045D |       |

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**SS04-FL01-02@3'**  
**2408027-05 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/02/24 11:11**

| Analyte                     | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|                             |        | Limit     |       |          |         |          |          |           |       |
| Benzene                     | ND     | 0.0020    | mg/kg | 1        | BHH0090 | 08/02/24 | 08/02/24 | 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: **08/02/24 11:11**

| Analyte                          | Result | Reporting | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0367 | 91.8 %    | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0401 | 100 %     | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0421 | 105 %     | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/02/24 11:11**

| Analyte       | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     |       |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        | mg/kg | 1        | BHH0091 | 08/02/24 | 08/03/24 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **08/02/24 11:11**

| Analyte                | Result | Reporting | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl | 6.65   | 53.2 %    | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**SS04-FL01-02@3'**  
**2408027-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/02/24 11:11**

| Analyte                  | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|--------------------------|--------|-----------|-------|----------|---------|----------|----------|---------------|-------|
|                          |        | Limit     |       |          |         |          |          |               |       |
| Acenaphthene             | ND     | 0.00500   | mg/kg | 1        | BHH0097 | 08/05/24 | 08/06/24 | 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: **08/02/24 11:11**

| Analyte                            | Result | Reporting | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
|                                    |        | Limit     |        |          |       |          |          |        |       |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0142 | 42.5 %    | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0161 | 48.2 %    | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **08/02/24 11:11**

| Analyte | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     |       |          |         |          |          |           |       |
| Boron   | ND     | 2.00      | mg/L  | 1        | BHH0107 | 08/05/24 | 08/06/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **08/02/24 11:11**

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

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

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**SS04-FL01-02@3'**  
**2408027-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

|          |        |        |           |   |         |          |          |           |
|----------|--------|--------|-----------|---|---------|----------|----------|-----------|
| Arsenic  | 1.79   | 0.200  | mg/kg dry | 1 | BHH0101 | 08/05/24 | 08/05/24 | EPA 6020B |
| Barium   | 52.8   | 0.400  | "         | " | "       | "        | "        | "         |
| Cadmium  | ND     | 0.200  | "         | " | "       | "        | "        | "         |
| Copper   | 2.84   | 0.400  | "         | " | "       | "        | "        | "         |
| Lead     | 4.28   | 0.200  | "         | " | "       | "        | "        | "         |
| Nickel   | 3.90   | 0.400  | "         | " | "       | "        | "        | "         |
| Silver   | 0.0232 | 0.0200 | "         | " | "       | "        | "        | "         |
| Zinc     | 14.3   | 0.400  | "         | " | "       | "        | "        | "         |
| Selenium | ND     | 0.260  | "         | " | "       | "        | "        | "         |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/02/24 11:11**

| Analyte              | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            | mg/kg dry | 1        | BHH0105 | 08/05/24 | 08/05/24 | EPA 7196A |       |

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

Date Sampled: **08/02/24 11:11**

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 87.7   | 0.0500          | mg/L dry | 1        | BHH0087 | 08/02/24 | 08/06/24 | EPA 6020B |       |
| Magnesium | 12.6   | 0.0500          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 46.8   | 0.0500          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **08/02/24 11:11**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 1.24   | 0.00100         | units | 1        | BHH0128 | 08/06/24 | 08/06/24 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

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

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**SS04-FL01-02@3'**  
**2408027-05 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/02/24 11:11**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 85.6   |                 | %     | 1        | BHH0075 | 08/05/24 | 08/05/24 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/02/24 11:11**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.306  | 0.0100          | mmhos/cm | 1        | BHH0088 | 08/02/24 | 08/05/24 | EPA 120.1 |       |

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

Date Sampled: **08/02/24 11:11**

| Analyte | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH      | 8.84   |                 | pH Units | 1        | BHH0089 | 08/02/24 | 08/05/24 | EPA 9045D |       |

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**FS01-FL01R-W@4'**  
**2408027-06 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/02/24 14:50**

| Analyte                     | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|                             |        | Limit     |       |          |         |          |          |           |       |
| Benzene                     | ND     | 0.0020    | mg/kg | 1        | BHH0090 | 08/02/24 | 08/02/24 | 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: **08/02/24 14:50**

| Analyte                          | Result | Reporting | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0371 | 92.8 %    | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0419 | 105 %     | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0402 | 100 %     | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/02/24 14:50**

| Analyte       | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     |       |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        | mg/kg | 1        | BHH0091 | 08/02/24 | 08/03/24 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **08/02/24 14:50**

| Analyte                | Result | Reporting | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl | 8.77   | 70.2 %    | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

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

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**FS01-FL01R-W@4'**  
**2408027-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/02/24 14:50**

| Analyte                  | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|--------------------------|--------|-----------|-------|----------|---------|----------|----------|---------------|-------|
|                          |        | Limit     |       |          |         |          |          |               |       |
| Acenaphthene             | ND     | 0.00500   | mg/kg | 1        | BHH0097 | 08/05/24 | 08/06/24 | 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: **08/02/24 14:50**

| Analyte                            | Result | Reporting | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
|                                    |        | Limit     |        |          |       |          |          |        |       |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0145 | 43.5 %    | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0166 | 49.7 %    | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **08/02/24 14:50**

| Analyte | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     |       |          |         |          |          |           |       |
| Boron   | ND     | 2.00      | mg/L  | 1        | BHH0107 | 08/05/24 | 08/06/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **08/02/24 14:50**

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

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

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**FS01-FL01R-W@4'**  
**2408027-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

|          |       |        |           |   |         |          |          |           |
|----------|-------|--------|-----------|---|---------|----------|----------|-----------|
| Arsenic  | 0.832 | 0.200  | mg/kg dry | 1 | BHH0101 | 08/05/24 | 08/05/24 | EPA 6020B |
| Barium   | 60.1  | 0.400  | "         | " | "       | "        | "        | "         |
| Cadmium  | ND    | 0.200  | "         | " | "       | "        | "        | "         |
| Copper   | 2.13  | 0.400  | "         | " | "       | "        | "        | "         |
| Lead     | 3.82  | 0.200  | "         | " | "       | "        | "        | "         |
| Nickel   | 3.36  | 0.400  | "         | " | "       | "        | "        | "         |
| Silver   | ND    | 0.0200 | "         | " | "       | "        | "        | "         |
| Zinc     | 12.8  | 0.400  | "         | " | "       | "        | "        | "         |
| Selenium | ND    | 0.260  | "         | " | "       | "        | "        | "         |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/02/24 14:50**

| Analyte              | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            | mg/kg dry | 1        | BHH0105 | 08/05/24 | 08/05/24 | EPA 7196A |       |

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

Date Sampled: **08/02/24 14:50**

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 52.0   | 0.0500          | mg/L dry | 1        | BHH0087 | 08/02/24 | 08/06/24 | EPA 6020B |       |
| Magnesium | 11.8   | 0.0500          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 59.0   | 0.0500          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **08/02/24 14:50**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 1.92   | 0.00100         | units | 1        | BHH0128 | 08/06/24 | 08/06/24 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

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

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**FS01-FL01R-W@4'**  
**2408027-06 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/02/24 14:50**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 84.7   |                 | %     | 1        | BHH0075 | 08/05/24 | 08/05/24 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/02/24 14:50**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.597  | 0.0100          | mmhos/cm | 1        | BHH0088 | 08/02/24 | 08/05/24 | EPA 120.1 |       |

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

Date Sampled: **08/02/24 14:50**

| Analyte | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH      | 8.40   |                 | pH Units | 1        | BHH0089 | 08/02/24 | 08/05/24 | EPA 9045D |       |

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**SS01-FL01R-W@3'**  
**2408027-07 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/02/24 14:52**

| Analyte                     | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|                             |        | Limit     |       |          |         |          |          |           |       |
| Benzene                     | ND     | 0.0020    | mg/kg | 1        | BHH0090 | 08/02/24 | 08/02/24 | 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: **08/02/24 14:52**

| Analyte                          | Result | Reporting | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0427 | 107 %     | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0416 | 104 %     | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0409 | 102 %     | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/02/24 14:52**

| Analyte       | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     |       |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        | mg/kg | 1        | BHH0091 | 08/02/24 | 08/03/24 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **08/02/24 14:52**

| Analyte                | Result | Reporting | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl | 10.5   | 84.2 %    | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**SS01-FL01R-W@3'**  
**2408027-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/02/24 14:52**

| Analyte                  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene             | ND     | 0.00500         | mg/kg | 1        | BHH0097 | 08/05/24 | 08/06/24 | 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: **08/02/24 14:52**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0147 | 44.1 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0138 | 41.4 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **08/02/24 14:52**


| Analyte | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron   | ND     | 2.00            | mg/L  | 1        | BHH0107 | 08/05/24 | 08/06/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **08/02/24 14:52**

| 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 - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**SS01-FL01R-W@3'**  
**2408027-07 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

|          |        |        |           |   |         |          |          |           |
|----------|--------|--------|-----------|---|---------|----------|----------|-----------|
| Arsenic  | 1.25   | 0.179  | mg/kg dry | 1 | BHH0101 | 08/05/24 | 08/05/24 | EPA 6020B |
| Barium   | 60.8   | 0.357  | "         | " | "       | "        | "        | "         |
| Cadmium  | ND     | 0.179  | "         | " | "       | "        | "        | "         |
| Copper   | 2.22   | 0.357  | "         | " | "       | "        | "        | "         |
| Lead     | 3.81   | 0.179  | "         | " | "       | "        | "        | "         |
| Nickel   | 3.70   | 0.357  | "         | " | "       | "        | "        | "         |
| Silver   | 0.0202 | 0.0179 | "         | " | "       | "        | "        | "         |
| Zinc     | 13.0   | 0.357  | "         | " | "       | "        | "        | "         |
| Selenium | ND     | 0.232  | "         | " | "       | "        | "        | "         |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/02/24 14:52**

| Analyte              | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            | mg/kg dry | 1        | BHH0105 | 08/05/24 | 08/05/24 | EPA 7196A |       |

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

Date Sampled: **08/02/24 14:52**

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 45.8   | 0.0500          | mg/L dry | 1        | BHH0087 | 08/02/24 | 08/06/24 | EPA 6020B |       |
| Magnesium | 8.44   | 0.0500          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 79.5   | 0.0500          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **08/02/24 14:52**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 2.83   | 0.00100         | units | 1        | BHH0128 | 08/06/24 | 08/06/24 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

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

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**SS01-FL01R-W@3'**  
**2408027-07 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/02/24 14:52**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 90.1   |                 | %     | 1        | BHH0075 | 08/05/24 | 08/05/24 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/02/24 14:52**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.564  | 0.0100          | mmhos/cm | 1        | BHH0088 | 08/02/24 | 08/05/24 | EPA 120.1 |       |

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

Date Sampled: **08/02/24 14:52**

| Analyte | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH      | 8.65   |                 | pH Units | 1        | BHH0089 | 08/02/24 | 08/05/24 | EPA 9045D |       |

Summit Scientific

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**SS02-FL01R-W@3'**  
**2408027-08 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/02/24 14:54**

| Analyte                     | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|                             |        | Limit     |       |          |         |          |          |           |       |
| Benzene                     | ND     | 0.0020    | mg/kg | 1        | BHH0090 | 08/02/24 | 08/03/24 | 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: **08/02/24 14:54**

| Analyte                          | Result | Reporting | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0373 | 93.2 %    | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0406 | 101 %     | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0395 | 98.8 %    | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/02/24 14:54**

| Analyte       | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     |       |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        | mg/kg | 1        | BHH0091 | 08/02/24 | 08/03/24 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **08/02/24 14:54**

| Analyte                | Result | Reporting | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl | 9.46   | 75.7 %    | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

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

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**SS02-FL01R-W@3'**  
**2408027-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/02/24 14:54**

| Analyte                  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene             | ND     | 0.00500         | mg/kg | 1        | BHH0097 | 08/05/24 | 08/06/24 | 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: **08/02/24 14:54**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0153 | 45.9 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0159 | 47.6 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **08/02/24 14:54**


| Analyte | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron   | ND     | 2.00            | mg/L  | 1        | BHH0107 | 08/05/24 | 08/06/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **08/02/24 14:54**

| 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 - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**SS02-FL01R-W@3'**  
**2408027-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

|          |        |        |           |   |         |          |          |           |
|----------|--------|--------|-----------|---|---------|----------|----------|-----------|
| Arsenic  | 1.62   | 0.200  | mg/kg dry | 1 | BHH0101 | 08/05/24 | 08/05/24 | EPA 6020B |
| Barium   | 51.5   | 0.400  | "         | " | "       | "        | "        | "         |
| Cadmium  | ND     | 0.200  | "         | " | "       | "        | "        | "         |
| Copper   | 3.09   | 0.400  | "         | " | "       | "        | "        | "         |
| Lead     | 5.62   | 0.200  | "         | " | "       | "        | "        | "         |
| Nickel   | 4.04   | 0.400  | "         | " | "       | "        | "        | "         |
| Silver   | 0.0253 | 0.0200 | "         | " | "       | "        | "        | "         |
| Zinc     | 15.2   | 0.400  | "         | " | "       | "        | "        | "         |
| Selenium | ND     | 0.260  | "         | " | "       | "        | "        | "         |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/02/24 14:54**

| Analyte              | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            | mg/kg dry | 1        | BHH0105 | 08/05/24 | 08/05/24 | EPA 7196A |       |

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

Date Sampled: **08/02/24 14:54**

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 61.9   | 0.0500          | mg/L dry | 1        | BHH0087 | 08/02/24 | 08/06/24 | EPA 6020B |       |
| Magnesium | 12.4   | 0.0500          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 16.3   | 0.0500          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **08/02/24 14:54**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.495  | 0.00100         | units | 1        | BHH0128 | 08/06/24 | 08/06/24 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

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

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**SS02-FL01R-W@3'**  
**2408027-08 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/02/24 14:54**

| Analyte  | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------|--|-------|----------|---------|----------|----------|-------------|-------|
|          |        | Limit     |  |       |          |         |          |          |             |       |
| % Solids | 87.9   |           |  | %     | 1        | BHH0075 | 08/05/24 | 08/05/24 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/02/24 14:54**

| Analyte                   | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|                           |        | Limit     |  |          |          |         |          |          |           |       |
| Specific Conductance (EC) | 0.231  | 0.0100    |  | mmhos/cm | 1        | BHH0088 | 08/02/24 | 08/05/24 | EPA 120.1 |       |

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

Date Sampled: **08/02/24 14:54**

| Analyte | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     |  |          |          |         |          |          |           |       |
| pH      | 8.62   |           |  | pH Units | 1        | BHH0089 | 08/02/24 | 08/05/24 | EPA 9045D |       |

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Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**SS03-FL01R-W@3'**  
**2408027-09 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/02/24 14:56**

| Analyte                     | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|                             |        | Limit     |       |          |         |          |          |           |       |
| Benzene                     | ND     | 0.0020    | mg/kg | 1        | BHH0090 | 08/02/24 | 08/03/24 | 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: **08/02/24 14:56**

| Analyte                          | Result | Reporting | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0423 | 106 %     | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0413 | 103 %     | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0416 | 104 %     | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/02/24 14:56**

| Analyte       | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     |       |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        | mg/kg | 1        | BHH0091 | 08/02/24 | 08/03/24 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **08/02/24 14:56**

| Analyte                | Result | Reporting | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl | 11.3   | 90.8 %    | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

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Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**SS03-FL01R-W@3'**  
**2408027-09 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/02/24 14:56**

| Analyte                  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene             | ND     | 0.00500         | mg/kg | 1        | BHH0097 | 08/05/24 | 08/06/24 | 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: **08/02/24 14:56**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0156 | 46.7 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0143 | 42.9 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **08/02/24 14:56**


| Analyte | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron   | ND     | 2.00            | mg/L  | 1        | BHH0107 | 08/05/24 | 08/06/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **08/02/24 14:56**

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

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**SS03-FL01R-W@3'**  
**2408027-09 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

|          |      |        |           |   |         |          |          |           |
|----------|------|--------|-----------|---|---------|----------|----------|-----------|
| Arsenic  | 1.52 | 0.200  | mg/kg dry | 1 | BHH0101 | 08/05/24 | 08/05/24 | EPA 6020B |
| Barium   | 43.8 | 0.400  | "         | " | "       | "        | "        | "         |
| Cadmium  | ND   | 0.200  | "         | " | "       | "        | "        | "         |
| Copper   | 2.47 | 0.400  | "         | " | "       | "        | "        | "         |
| Lead     | 4.12 | 0.200  | "         | " | "       | "        | "        | "         |
| Nickel   | 3.72 | 0.400  | "         | " | "       | "        | "        | "         |
| Silver   | ND   | 0.0200 | "         | " | "       | "        | "        | "         |
| Zinc     | 13.5 | 0.400  | "         | " | "       | "        | "        | "         |
| Selenium | ND   | 0.260  | "         | " | "       | "        | "        | "         |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/02/24 14:56**

| Analyte              | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            | mg/kg dry | 1        | BHH0105 | 08/05/24 | 08/05/24 | EPA 7196A |       |

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

Date Sampled: **08/02/24 14:56**

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 32.1   | 0.0500          | mg/L dry | 1        | BHH0087 | 08/02/24 | 08/06/24 | EPA 6020B |       |
| Magnesium | 9.37   | 0.0500          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 74.1   | 0.0500          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **08/02/24 14:56**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 2.96   | 0.00100         | units | 1        | BHH0128 | 08/06/24 | 08/06/24 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**SS03-FL01R-W@3'**  
**2408027-09 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/02/24 14:56**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 90.1   |                 | %     | 1        | BHH0075 | 08/05/24 | 08/05/24 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/02/24 14:56**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.619  | 0.0100          | mmhos/cm | 1        | BHH0088 | 08/02/24 | 08/05/24 | EPA 120.1 |       |

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

Date Sampled: **08/02/24 14:56**

| Analyte | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH      | 8.44   |                 | pH Units | 1        | BHH0089 | 08/02/24 | 08/05/24 | EPA 9045D |       |

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Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**SS04-FL01R-W@3'**  
**2408027-10 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/02/24 14:58**

| Analyte                     | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|                             |        | Limit     |       |          |         |          |          |           |       |
| Benzene                     | ND     | 0.0020    | mg/kg | 1        | BHH0090 | 08/02/24 | 08/03/24 | 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: **08/02/24 14:58**

| Analyte                          | Result | Reporting | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0351 | 87.8 %    | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0378 | 94.4 %    | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0398 | 99.4 %    | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/02/24 14:58**

| Analyte       | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     |       |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        | mg/kg | 1        | BHH0091 | 08/02/24 | 08/03/24 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **08/02/24 14:58**

| Analyte                | Result | Reporting | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl | 9.64   | 77.1 %    | 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 - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**SS04-FL01R-W@3'**  
**2408027-10 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/02/24 14:58**

| Analyte                  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene             | ND     | 0.00500         | mg/kg | 1        | BHH0097 | 08/05/24 | 08/06/24 | 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: **08/02/24 14:58**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0153 | 45.8 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0139 | 41.7 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **08/02/24 14:58**

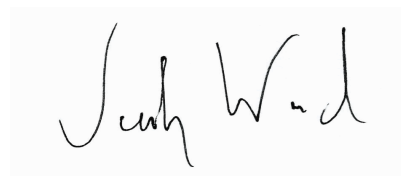
| Analyte | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron   | ND     | 2.00            | mg/L  | 1        | BHH0107 | 08/05/24 | 08/06/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **08/02/24 14:58**

| 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 - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**SS04-FL01R-W@3'**  
**2408027-10 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

|          |      |        |           |   |         |          |          |           |
|----------|------|--------|-----------|---|---------|----------|----------|-----------|
| Arsenic  | 1.67 | 0.200  | mg/kg dry | 1 | BHH0101 | 08/05/24 | 08/05/24 | EPA 6020B |
| Barium   | 52.4 | 0.400  | "         | " | "       | "        | "        | "         |
| Cadmium  | ND   | 0.200  | "         | " | "       | "        | "        | "         |
| Copper   | 2.66 | 0.400  | "         | " | "       | "        | "        | "         |
| Lead     | 3.88 | 0.200  | "         | " | "       | "        | "        | "         |
| Nickel   | 3.75 | 0.400  | "         | " | "       | "        | "        | "         |
| Silver   | ND   | 0.0200 | "         | " | "       | "        | "        | "         |
| Zinc     | 13.8 | 0.400  | "         | " | "       | "        | "        | "         |
| Selenium | ND   | 0.260  | "         | " | "       | "        | "        | "         |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/02/24 14:58**

| Analyte              | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            | mg/kg dry | 1        | BHH0105 | 08/05/24 | 08/05/24 | EPA 7196A |       |

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

Date Sampled: **08/02/24 14:58**

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 37.6   | 0.0500          | mg/L dry | 1        | BHH0087 | 08/02/24 | 08/06/24 | EPA 6020B |       |
| Magnesium | 12.2   | 0.0500          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 108    | 0.0500          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **08/02/24 14:58**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 3.91   | 0.00100         | units | 1        | BHH0128 | 08/06/24 | 08/06/24 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

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

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**SS04-FL01R-W@3'**  
**2408027-10 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/02/24 14:58**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 89.9   |                 | %     | 1        | BHH0075 | 08/05/24 | 08/05/24 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/02/24 14:58**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.833  | 0.0100          | mmhos/cm | 1        | BHH0088 | 08/02/24 | 08/05/24 | EPA 120.1 |       |

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

Date Sampled: **08/02/24 14:58**

| Analyte | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH      | 8.19   |                 | pH Units | 1        | BHH0089 | 08/02/24 | 08/05/24 | EPA 9045D |       |

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Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

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

#### Batch BHH0090 - EPA 5030 Soil MS

##### Blank (BHH0090-BLK1)

Prepared: 08/02/24 Analyzed: 08/03/24

|                                  |        |        |       |        |  |      |        |  |  |  |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene                          | ND     | 0.0020 | mg/kg |        |  |      |        |  |  |  |
| Toluene                          | ND     | 0.0050 | "     |        |  |      |        |  |  |  |
| Ethylbenzene                     | ND     | 0.0050 | "     |        |  |      |        |  |  |  |
| Xylenes (total)                  | ND     | 0.010  | "     |        |  |      |        |  |  |  |
| 1,2,4-Trimethylbenzene           | ND     | 0.0050 | "     |        |  |      |        |  |  |  |
| 1,3,5-Trimethylbenzene           | ND     | 0.0050 | "     |        |  |      |        |  |  |  |
| Naphthalene                      | ND     | 0.0038 | "     |        |  |      |        |  |  |  |
| Gasoline Range Hydrocarbons      | ND     | 0.50   | "     |        |  |      |        |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0357 |        | "     | 0.0400 |  | 89.2 | 50-150 |  |  |  |
| Surrogate: Toluene-d8            | 0.0405 |        | "     | 0.0400 |  | 101  | 50-150 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.0404 |        | "     | 0.0400 |  | 101  | 50-150 |  |  |  |

##### LCS (BHH0090-BS1)

Prepared: 08/02/24 Analyzed: 08/03/24

|                                  |        |        |       |        |  |      |        |  |  |  |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene                          | 0.0788 | 0.0020 | mg/kg | 0.100  |  | 78.8 | 70-130 |  |  |  |
| Toluene                          | 0.104  | 0.0050 | "     | 0.100  |  | 104  | 70-130 |  |  |  |
| Ethylbenzene                     | 0.0958 | 0.0050 | "     | 0.100  |  | 95.8 | 70-130 |  |  |  |
| m,p-Xylene                       | 0.194  | 0.010  | "     | 0.200  |  | 96.9 | 70-130 |  |  |  |
| o-Xylene                         | 0.0940 | 0.0050 | "     | 0.100  |  | 94.0 | 70-130 |  |  |  |
| 1,2,4-Trimethylbenzene           | 0.0881 | 0.0050 | "     | 0.100  |  | 88.1 | 70-130 |  |  |  |
| 1,3,5-Trimethylbenzene           | 0.0870 | 0.0050 | "     | 0.100  |  | 87.0 | 70-130 |  |  |  |
| Naphthalene                      | 0.0740 | 0.0038 | "     | 0.100  |  | 74.0 | 70-130 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0399 |        | "     | 0.0400 |  | 99.8 | 50-150 |  |  |  |
| Surrogate: Toluene-d8            | 0.0428 |        | "     | 0.0400 |  | 107  | 50-150 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.0404 |        | "     | 0.0400 |  | 101  | 50-150 |  |  |  |

##### Matrix Spike (BHH0090-MS1)

Source: 2408026-01

Prepared: 08/02/24 Analyzed: 08/03/24

|                                  |        |        |       |        |    |      |        |  |  |       |
|----------------------------------|--------|--------|-------|--------|----|------|--------|--|--|-------|
| Benzene                          | 0.0752 | 0.0020 | mg/kg | 0.100  | ND | 75.2 | 70-130 |  |  |       |
| Toluene                          | 0.0909 | 0.0050 | "     | 0.100  | ND | 90.9 | 70-130 |  |  |       |
| Ethylbenzene                     | 0.0801 | 0.0050 | "     | 0.100  | ND | 80.1 | 70-130 |  |  |       |
| m,p-Xylene                       | 0.159  | 0.010  | "     | 0.200  | ND | 79.5 | 70-130 |  |  |       |
| o-Xylene                         | 0.0788 | 0.0050 | "     | 0.100  | ND | 78.8 | 70-130 |  |  |       |
| 1,2,4-Trimethylbenzene           | 0.0693 | 0.0050 | "     | 0.100  | ND | 69.3 | 70-130 |  |  | QM-07 |
| 1,3,5-Trimethylbenzene           | 0.0681 | 0.0050 | "     | 0.100  | ND | 68.1 | 70-130 |  |  | QM-07 |
| Naphthalene                      | 0.0491 | 0.0038 | "     | 0.100  | ND | 49.1 | 70-130 |  |  | QM-07 |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0409 |        | "     | 0.0400 |    | 102  | 50-150 |  |  |       |
| Surrogate: Toluene-d8            | 0.0411 |        | "     | 0.0400 |    | 103  | 50-150 |  |  |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0398 |        | "     | 0.0400 |    | 99.5 | 50-150 |  |  |       |

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

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

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

**Batch BHH0090 - EPA 5030 Soil MS**

| Matrix Spike Dup (BHH0090-MSD1)  | Source: 2408026-01 |        |       | Prepared: 08/02/24 Analyzed: 08/03/24 |    |      |        |      |    |       |
|----------------------------------|--------------------|--------|-------|---------------------------------------|----|------|--------|------|----|-------|
| Benzene                          | 0.0732             | 0.0020 | mg/kg | 0.100                                 | ND | 73.2 | 70-130 | 2.67 | 30 |       |
| Toluene                          | 0.0816             | 0.0050 | "     | 0.100                                 | ND | 81.6 | 70-130 | 10.9 | 30 |       |
| Ethylbenzene                     | 0.0772             | 0.0050 | "     | 0.100                                 | ND | 77.2 | 70-130 | 3.70 | 30 |       |
| m,p-Xylene                       | 0.151              | 0.010  | "     | 0.200                                 | ND | 75.3 | 70-130 | 5.45 | 30 |       |
| o-Xylene                         | 0.0748             | 0.0050 | "     | 0.100                                 | ND | 74.8 | 70-130 | 5.08 | 30 |       |
| 1,2,4-Trimethylbenzene           | 0.0638             | 0.0050 | "     | 0.100                                 | ND | 63.8 | 70-130 | 8.21 | 30 | QM-07 |
| 1,3,5-Trimethylbenzene           | 0.0652             | 0.0050 | "     | 0.100                                 | ND | 65.2 | 70-130 | 4.41 | 30 | QM-07 |
| Naphthalene                      | 0.0502             | 0.0038 | "     | 0.100                                 | ND | 50.2 | 70-130 | 2.11 | 30 | QM-07 |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0349             |        | "     | 0.0400                                |    | 87.3 | 50-150 |      |    |       |
| Surrogate: Toluene-d8            | 0.0436             |        | "     | 0.0400                                |    | 109  | 50-150 |      |    |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0404             |        | "     | 0.0400                                |    | 101  | 50-150 |      |    |       |

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BHH0091 - EPA 3550A**

**Blank (BHH0091-BLK1)**

Prepared & Analyzed: 08/02/24

|                        |      |    |       |      |  |      |        |  |  |  |
|------------------------|------|----|-------|------|--|------|--------|--|--|--|
| C10-C28 (DRO)          | ND   | 50 | mg/kg |      |  |      |        |  |  |  |
| C28-C36 (ORO)          | ND   | 50 | "     |      |  |      |        |  |  |  |
| Surrogate: o-Terphenyl | 11.9 |    | "     | 12.5 |  | 95.0 | 30-150 |  |  |  |

**LCS (BHH0091-BS1)**

Prepared & Analyzed: 08/02/24

|                        |      |    |       |      |  |      |        |  |  |  |
|------------------------|------|----|-------|------|--|------|--------|--|--|--|
| C10-C28 (DRO)          | 453  | 50 | mg/kg | 500  |  | 90.6 | 70-130 |  |  |  |
| Surrogate: o-Terphenyl | 11.8 |    | "     | 12.5 |  | 94.7 | 30-150 |  |  |  |

**Matrix Spike (BHH0091-MS1)**

Source: 2408026-01

Prepared & Analyzed: 08/02/24

|                        |      |    |       |      |    |      |        |  |  |  |
|------------------------|------|----|-------|------|----|------|--------|--|--|--|
| C10-C28 (DRO)          | 485  | 50 | mg/kg | 500  | ND | 97.0 | 70-130 |  |  |  |
| Surrogate: o-Terphenyl | 8.68 |    | "     | 12.5 |    | 69.4 | 30-150 |  |  |  |

**Matrix Spike Dup (BHH0091-MSD1)**

Source: 2408026-01

Prepared & Analyzed: 08/02/24

|                        |      |    |       |      |    |      |        |      |    |  |
|------------------------|------|----|-------|------|----|------|--------|------|----|--|
| C10-C28 (DRO)          | 477  | 50 | mg/kg | 500  | ND | 95.3 | 70-130 | 1.74 | 20 |  |
| Surrogate: o-Terphenyl | 10.4 |    | "     | 12.5 |    | 83.4 | 30-150 |      |    |  |

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BHH0097 - EPA 5030 Soil MS

##### Blank (BHH0097-BLK1)

Prepared & Analyzed: 08/05/24

|                                    |        |         |       |        |  |      |        |  |  |  |
|------------------------------------|--------|---------|-------|--------|--|------|--------|--|--|--|
| 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 | "     |        |  |      |        |  |  |  |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0177 |         | "     | 0.0333 |  | 53.2 | 40-150 |  |  |  |
| Surrogate: Fluoranthene-d10        | 0.0221 |         | "     | 0.0333 |  | 66.2 | 40-150 |  |  |  |

##### LCS (BHH0097-BS1)

Prepared & Analyzed: 08/05/24

|                                    |        |         |       |        |  |      |        |  |  |  |
|------------------------------------|--------|---------|-------|--------|--|------|--------|--|--|--|
| Acenaphthene                       | 0.0183 | 0.00500 | mg/kg | 0.0333 |  | 54.9 | 31-137 |  |  |  |
| Anthracene                         | 0.0198 | 0.00500 | "     | 0.0333 |  | 59.4 | 30-120 |  |  |  |
| Benzo (a) anthracene               | 0.0177 | 0.00500 | "     | 0.0333 |  | 53.1 | 30-120 |  |  |  |
| Benzo (a) pyrene                   | 0.0208 | 0.00500 | "     | 0.0333 |  | 62.3 | 30-120 |  |  |  |
| Benzo (b) fluoranthene             | 0.0227 | 0.00500 | "     | 0.0333 |  | 68.1 | 30-120 |  |  |  |
| Benzo (k) fluoranthene             | 0.0227 | 0.00500 | "     | 0.0333 |  | 68.0 | 30-120 |  |  |  |
| Chrysene                           | 0.0164 | 0.00500 | "     | 0.0333 |  | 49.2 | 30-120 |  |  |  |
| Dibenz (a,h) anthracene            | 0.0141 | 0.00500 | "     | 0.0333 |  | 42.4 | 30-120 |  |  |  |
| Fluoranthene                       | 0.0184 | 0.00500 | "     | 0.0333 |  | 55.2 | 30-120 |  |  |  |
| Fluorene                           | 0.0225 | 0.00500 | "     | 0.0333 |  | 67.6 | 30-120 |  |  |  |
| Indeno (1,2,3-cd) pyrene           | 0.0145 | 0.00500 | "     | 0.0333 |  | 43.5 | 30-120 |  |  |  |
| Pyrene                             | 0.0185 | 0.00500 | "     | 0.0333 |  | 55.6 | 35-142 |  |  |  |
| 1-Methylnaphthalene                | 0.0181 | 0.00500 | "     | 0.0333 |  | 54.4 | 35-142 |  |  |  |
| 2-Methylnaphthalene                | 0.0147 | 0.00500 | "     | 0.0333 |  | 44.1 | 35-142 |  |  |  |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0196 |         | "     | 0.0333 |  | 58.9 | 40-150 |  |  |  |
| Surrogate: Fluoranthene-d10        | 0.0228 |         | "     | 0.0333 |  | 68.5 | 40-150 |  |  |  |

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

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BHH0097 - EPA 5030 Soil MS

##### Matrix Spike (BHH0097-MS1)

Source: 2408018-01

Prepared & Analyzed: 08/05/24

|                                    |        |         |       |        |    |      |        |  |  |
|------------------------------------|--------|---------|-------|--------|----|------|--------|--|--|
| Acenaphthene                       | 0.0125 | 0.00500 | mg/kg | 0.0333 | ND | 37.5 | 31-137 |  |  |
| Anthracene                         | 0.0134 | 0.00500 | "     | 0.0333 | ND | 40.3 | 30-120 |  |  |
| Benzo (a) anthracene               | 0.0116 | 0.00500 | "     | 0.0333 | ND | 34.8 | 30-120 |  |  |
| Benzo (a) pyrene                   | 0.0136 | 0.00500 | "     | 0.0333 | ND | 40.8 | 30-120 |  |  |
| Benzo (b) fluoranthene             | 0.0146 | 0.00500 | "     | 0.0333 | ND | 43.7 | 30-120 |  |  |
| Benzo (k) fluoranthene             | 0.0143 | 0.00500 | "     | 0.0333 | ND | 42.9 | 30-120 |  |  |
| Chrysene                           | 0.0108 | 0.00500 | "     | 0.0333 | ND | 32.4 | 30-120 |  |  |
| Dibenz (a,h) anthracene            | 0.0167 | 0.00500 | "     | 0.0333 | ND | 50.2 | 30-120 |  |  |
| Fluoranthene                       | 0.0125 | 0.00500 | "     | 0.0333 | ND | 37.6 | 30-120 |  |  |
| Fluorene                           | 0.0158 | 0.00500 | "     | 0.0333 | ND | 47.4 | 30-120 |  |  |
| Indeno (1,2,3-cd) pyrene           | 0.0105 | 0.00500 | "     | 0.0333 | ND | 31.6 | 30-120 |  |  |
| Pyrene                             | 0.0122 | 0.00500 | "     | 0.0333 | ND | 36.6 | 35-142 |  |  |
| 1-Methylnaphthalene                | 0.0131 | 0.00500 | "     | 0.0333 | ND | 39.3 | 15-130 |  |  |
| 2-Methylnaphthalene                | 0.0105 | 0.00500 | "     | 0.0333 | ND | 31.5 | 15-130 |  |  |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0140 |         | "     | 0.0333 |    | 41.9 | 40-150 |  |  |
| Surrogate: Fluoranthene-d10        | 0.0154 |         | "     | 0.0333 |    | 46.2 | 40-150 |  |  |

##### Matrix Spike Dup (BHH0097-MSD1)

Source: 2408018-01

Prepared & Analyzed: 08/05/24

|                                    |        |         |       |        |    |      |        |       |    |
|------------------------------------|--------|---------|-------|--------|----|------|--------|-------|----|
| Acenaphthene                       | 0.0140 | 0.00500 | mg/kg | 0.0333 | ND | 42.1 | 31-137 | 11.6  | 30 |
| Anthracene                         | 0.0142 | 0.00500 | "     | 0.0333 | ND | 42.5 | 30-120 | 5.13  | 30 |
| Benzo (a) anthracene               | 0.0128 | 0.00500 | "     | 0.0333 | ND | 38.4 | 30-120 | 9.91  | 30 |
| Benzo (a) pyrene                   | 0.0144 | 0.00500 | "     | 0.0333 | ND | 43.3 | 30-120 | 5.91  | 30 |
| Benzo (b) fluoranthene             | 0.0154 | 0.00500 | "     | 0.0333 | ND | 46.3 | 30-120 | 5.65  | 30 |
| Benzo (k) fluoranthene             | 0.0146 | 0.00500 | "     | 0.0333 | ND | 43.9 | 30-120 | 2.32  | 30 |
| Chrysene                           | 0.0117 | 0.00500 | "     | 0.0333 | ND | 35.0 | 30-120 | 7.67  | 30 |
| Dibenz (a,h) anthracene            | 0.0194 | 0.00500 | "     | 0.0333 | ND | 58.2 | 30-120 | 14.6  | 30 |
| Fluoranthene                       | 0.0127 | 0.00500 | "     | 0.0333 | ND | 38.2 | 30-120 | 1.53  | 30 |
| Fluorene                           | 0.0163 | 0.00500 | "     | 0.0333 | ND | 49.0 | 30-120 | 3.27  | 30 |
| Indeno (1,2,3-cd) pyrene           | 0.0106 | 0.00500 | "     | 0.0333 | ND | 31.8 | 30-120 | 0.656 | 30 |
| Pyrene                             | 0.0129 | 0.00500 | "     | 0.0333 | ND | 38.8 | 35-142 | 5.89  | 30 |
| 1-Methylnaphthalene                | 0.0145 | 0.00500 | "     | 0.0333 | ND | 43.4 | 15-130 | 9.75  | 50 |
| 2-Methylnaphthalene                | 0.0115 | 0.00500 | "     | 0.0333 | ND | 34.4 | 15-130 | 8.59  | 50 |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0146 |         | "     | 0.0333 |    | 43.7 | 40-150 |       |    |
| Surrogate: Fluoranthene-d10        | 0.0161 |         | "     | 0.0333 |    | 48.3 | 40-150 |       |    |

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

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

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

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

**Batch BHH0107 - EPA 3050B**

**Blank (BHH0107-BLK1)**

Prepared: 08/05/24 Analyzed: 08/06/24

Boron ND 2.00 mg/L

**LCS (BHH0107-BS1)**

Prepared: 08/05/24 Analyzed: 08/06/24

Boron 5.11 2.00 mg/L 5.00 102 80-120

**Duplicate (BHH0107-DUP1)**

**Source: 2408027-01**

Prepared: 08/05/24 Analyzed: 08/06/24

Boron 0.214 2.00 mg/L 0.258 18.4 20

**Matrix Spike (BHH0107-MS1)**

**Source: 2408027-01**

Prepared: 08/05/24 Analyzed: 08/06/24

Boron 5.20 2.00 mg/L 4.96 0.258 99.6 75-125

**Matrix Spike Dup (BHH0107-MSD1)**

**Source: 2408027-01**

Prepared: 08/05/24 Analyzed: 08/06/24

Boron 5.36 2.00 mg/L 4.96 0.258 103 75-125 3.17 25

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BHH0101 - EPA 3050B**

**Blank (BHH0101-BLK1)**

Prepared & Analyzed: 08/05/24

|          |    |        |           |
|----------|----|--------|-----------|
| 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 (BHH0101-BS1)**

Prepared & Analyzed: 08/05/24

|          |      |        |           |      |      |        |
|----------|------|--------|-----------|------|------|--------|
| Arsenic  | 38.7 | 0.200  | mg/kg wet | 37.9 | 102  | 80-120 |
| Barium   | 34.3 | 0.400  | "         | 37.9 | 90.5 | 80-120 |
| Cadmium  | 1.79 | 0.200  | "         | 1.89 | 94.7 | 80-120 |
| Copper   | 36.4 | 0.400  | "         | 37.9 | 96.0 | 80-120 |
| Lead     | 18.6 | 0.200  | "         | 18.9 | 98.2 | 80-120 |
| Nickel   | 36.9 | 0.400  | "         | 37.9 | 97.3 | 80-120 |
| Silver   | 1.86 | 0.0200 | "         | 1.89 | 98.0 | 80-120 |
| Zinc     | 37.7 | 0.400  | "         | 37.9 | 99.5 | 80-120 |
| Selenium | 4.30 | 0.260  | "         | 3.79 | 114  | 80-120 |

**Duplicate (BHH0101-DUP1)**

Source: 2405441-02

Prepared & Analyzed: 08/05/24

|          |        |        |           |        |      |    |
|----------|--------|--------|-----------|--------|------|----|
| Arsenic  | 0.980  | 0.200  | mg/kg dry | 1.15   | 15.9 | 20 |
| Barium   | 45.4   | 0.400  | "         | 52.2   | 14.0 | 20 |
| Cadmium  | 0.0631 | 0.200  | "         | 0.0740 | 15.9 | 20 |
| Copper   | 2.60   | 0.400  | "         | 2.76   | 6.19 | 20 |
| Lead     | 4.03   | 0.200  | "         | 4.58   | 12.8 | 20 |
| Nickel   | 2.80   | 0.400  | "         | 3.08   | 9.55 | 20 |
| Silver   | 0.0132 | 0.0200 | "         | 0.0172 | 26.3 | 20 |
| Zinc     | 11.5   | 0.400  | "         | 12.8   | 11.3 | 20 |
| Selenium | ND     | 0.260  | "         | ND     |      | 20 |

QR-01

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BHH0101 - EPA 3050B**

| Matrix Spike (BHH0101-MS1) |      |        | Source: 2405441-02 |      | Prepared & Analyzed: 08/05/24 |      |        |  |  |       |
|----------------------------|------|--------|--------------------|------|-------------------------------|------|--------|--|--|-------|
| Arsenic                    | 27.9 | 0.200  | mg/kg dry          | 39.9 | 1.15                          | 67.1 | 75-125 |  |  | QM-05 |
| Barium                     | 91.2 | 0.400  | "                  | 39.9 | 52.2                          | 97.7 | 75-125 |  |  |       |
| Cadmium                    | 1.97 | 0.200  | "                  | 2.00 | 0.0740                        | 95.0 | 75-125 |  |  |       |
| Copper                     | 28.9 | 0.400  | "                  | 39.9 | 2.76                          | 65.5 | 75-125 |  |  | QM-05 |
| Lead                       | 21.7 | 0.200  | "                  | 20.0 | 4.58                          | 86.0 | 75-125 |  |  |       |
| Nickel                     | 30.0 | 0.400  | "                  | 39.9 | 3.08                          | 67.4 | 75-125 |  |  | QM-05 |
| Silver                     | 1.96 | 0.0200 | "                  | 2.00 | 0.0172                        | 97.4 | 75-125 |  |  |       |
| Zinc                       | 40.1 | 0.400  | "                  | 39.9 | 12.8                          | 68.3 | 75-125 |  |  | QM-05 |
| Selenium                   | 4.15 | 0.260  | "                  | 3.99 | ND                            | 104  | 75-125 |  |  |       |

| Matrix Spike Dup (BHH0101-MSD1) |      |        | Source: 2405441-02 |      | Prepared & Analyzed: 08/05/24 |      |        |       |    |       |
|---------------------------------|------|--------|--------------------|------|-------------------------------|------|--------|-------|----|-------|
| Arsenic                         | 28.3 | 0.200  | mg/kg dry          | 40.2 | 1.15                          | 67.4 | 75-125 | 1.28  | 25 | QM-05 |
| Barium                          | 89.7 | 0.400  | "                  | 40.2 | 52.2                          | 93.2 | 75-125 | 1.67  | 25 |       |
| Cadmium                         | 1.98 | 0.200  | "                  | 2.01 | 0.0740                        | 94.6 | 75-125 | 0.291 | 25 |       |
| Copper                          | 29.4 | 0.400  | "                  | 40.2 | 2.76                          | 66.1 | 75-125 | 1.53  | 25 | QM-05 |
| Lead                            | 21.6 | 0.200  | "                  | 20.1 | 4.58                          | 84.5 | 75-125 | 0.715 | 25 |       |
| Nickel                          | 30.3 | 0.400  | "                  | 40.2 | 3.08                          | 67.7 | 75-125 | 1.10  | 25 | QM-05 |
| Silver                          | 1.93 | 0.0200 | "                  | 2.01 | 0.0172                        | 94.9 | 75-125 | 1.86  | 25 |       |
| Zinc                            | 40.9 | 0.400  | "                  | 40.2 | 12.8                          | 69.8 | 75-125 | 1.97  | 25 | QM-05 |
| Selenium                        | 3.96 | 0.260  | "                  | 4.02 | ND                            | 98.4 | 75-125 | 4.58  | 25 |       |

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

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BHH0105 - 3060A Mod**

**Blank (BHH0105-BLK1)**

Prepared & Analyzed: 08/05/24

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BHH0105-BS1)**

Prepared & Analyzed: 08/05/24

Chromium, Hexavalent 25.6 0.30 mg/kg wet 25.0 103 80-120

**Duplicate (BHH0105-DUP1)**

**Source: 2405441-02**

Prepared & Analyzed: 08/05/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BHH0105-MS1)**

**Source: 2405441-02**

Prepared & Analyzed: 08/05/24

Chromium, Hexavalent 26.8 0.30 mg/kg dry 25.7 ND 104 75-125

**Matrix Spike Dup (BHH0105-MSD1)**

**Source: 2405441-02**

Prepared & Analyzed: 08/05/24

Chromium, Hexavalent 27.7 0.30 mg/kg dry 25.7 ND 108 75-125 3.40 20

Summit Scientific

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

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BHH0087 - General Preparation**

**Blank (BHH0087-BLK1)**

Prepared: 08/02/24 Analyzed: 08/05/24

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

**LCS (BHH0087-BS1)**

Prepared: 08/02/24 Analyzed: 08/05/24

|           |      |        |          |      |     |        |
|-----------|------|--------|----------|------|-----|--------|
| Calcium   | 5.53 | 0.0500 | mg/L wet | 5.00 | 111 | 70-130 |
| Magnesium | 5.48 | 0.0500 | "        | 5.00 | 110 | 70-130 |
| Sodium    | 5.44 | 0.0500 | "        | 5.00 | 109 | 70-130 |

Summit Scientific

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - Johnson C29-28 FL

Project Number: UWRWE-A3072-ABN

Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

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

**Summit Scientific**

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

**Batch BHH0075 - General Preparation**

| Duplicate (BHH0075-DUP1) |      | Source: 2405441-02 |   |  | Prepared & Analyzed: 08/05/24 |  |       |  |    |  |
|--------------------------|------|--------------------|---|--|-------------------------------|--|-------|--|----|--|
| % Solids                 | 96.7 |                    | % |  | 97.1                          |  | 0.458 |  | 20 |  |

Summit Scientific

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

Project: Noble - Johnson C29-28 FL  
Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control**  
**Summit Scientific**

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

**Batch BHH0088 - General Preparation**

**Blank (BHH0088-BLK1)**

Prepared: 08/02/24 Analyzed: 08/05/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHH0088-BS1)**

Prepared: 08/02/24 Analyzed: 08/05/24

Specific Conductance (EC) 0.158 0.0100 mmhos/cm 0.150 105 95-105

**Duplicate (BHH0088-DUP1)**

**Source: 2405441-02**

Prepared: 08/02/24 Analyzed: 08/05/24

Specific Conductance (EC) 0.235 0.0100 mmhos/cm 0.238 0.972 20

Summit Scientific

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

Project: Noble - Johnson C29-28 FL

Project Number: UWRWE-A3072-ABN

Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

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

**Summit Scientific**

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

**Batch BHH0089 - General Preparation**

**LCS (BHH0089-BS1)**

Prepared: 08/02/24 Analyzed: 08/05/24

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

**Duplicate (BHH0089-DUP1)**

**Source: 2405441-02**

Prepared: 08/02/24 Analyzed: 08/05/24

|    |      |          |      |       |    |
|----|------|----------|------|-------|----|
| pH | 7.63 | pH Units | 7.59 | 0.526 | 20 |
|----|------|----------|------|-------|----|

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

Project: Noble - Johnson C29-28 FL

Project Number: UWRWE-A3072-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/06/24 13:04

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