

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 07, 2024

Brian Humphrey

Phillips 66

6900 E Layton Ave/ Suite 900

Denver, CO 80237

RE: Four Parmlee (H-6-9) 3/2024

Work Order #2410014

Enclosed are the results of analyses for samples received by Summit Scientific on 10/01/24 17:36. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jacob Wood". The signature is written in a cursive, flowing style.

Jacob Wood For Paul Shrewsbury

President



Phillips 66  
6900 E Layton Ave/ Suite 900  
Denver CO, 80237

Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]  
Project Manager: Brian Humphrey

**Reported:**  
10/07/24 12:40

### ANALYTICAL REPORT FOR SAMPLES

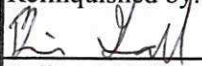

| Sample ID  | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|------------|---------------|--------|----------------|----------------|
| MW01@31.5' | 2410014-01    | Soil   | 10/01/24 11:04 | 10/01/24 17:36 |
| MW01@58.5' | 2410014-02    | Soil   | 10/01/24 12:52 | 10/01/24 17:36 |

Summit Scientific

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|                                      |  |  |  |                        |  |
|--------------------------------------|--|--|--|------------------------|--|
| Client: Tasmann / P66                |  | Send Data To:                                    |  | Send Invoice To:       |  |
| Address: 6855 W 119th Ave            |  | Project Manager: Brian Humphrey / Steve Weathers |  | Company:               |  |
| City/State/Zip: Broomfield, CO 80020 |  | E-Mail: bhumphrey@tasmann-grc.com                |  | Project Name/Location: |  |
| Phone: 303-487-1228                  |  | Stephen Weathers@P66.COM                         |  | AFE#:                  |  |
| Sampler Name: Brian Gabel            |  | Project Name: Four Parmlee (H-6-9) 03/2024       |  | PO/Billing Codes:      |  |
|                                      |  | Project Number:                                  |  | Contact:               |  |

|    |                    |              |              |                 | Preservative |      |      |       | Matrix |      |                |       | Analysis Requested |  |  |  |  |  |  |  | Special Instructions |  |
|----|--------------------|--------------|--------------|-----------------|--------------|------|------|-------|--------|------|----------------|-------|--------------------|--|--|--|--|--|--|--|----------------------|--|
| ID | Sample Description | Date Sampled | Time Sampled | # of containers | HCl          | HNO3 | None | Other | Water  | Soil | Air-Canister # | Other |                    |  |  |  |  |  |  |  |                      |  |
| 1  | MW01 @ 31.5'       | 10/1/24      | 1104         | 2               |              |      | X    |       |        | X    |                |       | X                  |  |  |  |  |  |  |  |                      |  |
| 2  | MW01 @ 58.5'       | 10/1/24      | 1252         | 2               |              |      | X    |       |        | X    |                |       | X                  |  |  |  |  |  |  |  |                      |  |
| 3  |                    |              |              |                 |              |      |      |       |        |      |                |       |                    |  |  |  |  |  |  |  |                      |  |
| 4  |                    |              |              |                 |              |      |      |       |        |      |                |       |                    |  |  |  |  |  |  |  |                      |  |
| 5  |                    |              |              |                 |              |      |      |       |        |      |                |       |                    |  |  |  |  |  |  |  |                      |  |
| 6  |                    |              |              |                 |              |      |      |       |        |      |                |       |                    |  |  |  |  |  |  |  |                      |  |
| 7  |                    |              |              |                 |              |      |      |       |        |      |                |       |                    |  |  |  |  |  |  |  |                      |  |
| 8  |                    |              |              |                 |              |      |      |       |        |      |                |       |                    |  |  |  |  |  |  |  |                      |  |
| 9  |                    |              |              |                 |              |      |      |       |        |      |                |       |                    |  |  |  |  |  |  |  |                      |  |
| 10 |                    |              |              |                 |              |      |      |       |        |      |                |       |                    |  |  |  |  |  |  |  |                      |  |
| 11 |                    |              |              |                 |              |      |      |       |        |      |                |       |                    |  |  |  |  |  |  |  |                      |  |
| 12 |                    |              |              |                 |              |      |      |       |        |      |                |       |                    |  |  |  |  |  |  |  |                      |  |
| 13 |                    |              |              |                 |              |      |      |       |        |      |                |       |                    |  |  |  |  |  |  |  |                      |  |
| 14 |                    |              |              |                 |              |      |      |       |        |      |                |       |                    |  |  |  |  |  |  |  |                      |  |
| 15 |                    |              |              |                 |              |      |      |       |        |      |                |       |                    |  |  |  |  |  |  |  |                      |  |

|   |                          |  |                         |                   |             |        |
|---|--------------------------|--|-------------------------|-------------------|-------------|--------|
| Relinquished by:  | Date/Time: 10/1/24 1735  | Received by: Tasmann Lockbox   | Date/Time: 10/1/24 1735 | TAT Business Days | Field DO    | Notes: |
| Relinquished by: Tasmann Lockbox  | Date/Time: 10/24 1734    | Received by:  | Date/Time: 10/24 1734   | Same Day          | Field EC    |        |
|   |                          |  |                         | 1 Day             | Field ORP   |        |
|   |                          |  |                         | 2 Days            | Field pH    |        |
|   |                          |  |                         | 3 Days            | Field Temp. |        |
|   |                          |  |                         | Standard          | Field Turb. |        |
| Temperature Upon Receipt: 8.8   | Corrected Temperature: 8 | IR gun #: 1  | HNO3 lot #:             |                   |             |        |

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2410014Client: Tasman/Peve Client Project ID: Four Parmlee (H-10-9) 3/2024Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #:                     

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

Matrix (Check all that apply) Air ☐ Soil/Solid ☐ Water ☐ Other ☐Temp (°C) 8.8Thermometer # 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"/>            | noce              |
| 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 type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                   |
| 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

10/1/24  
Date/Time





Phillips 66  
6900 E Layton Ave/ Suite 900  
Denver CO, 80237

Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]  
Project Manager: Brian Humphrey

**Reported:**  
10/07/24 12:40

**MW01@31.5'**  
**2410014-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/01/24 11:04**

| Analyte                            | Result       | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------------------------|--------------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                                    |              | Limit     |  |       |          |         |          |          |           |       |
| Benzene                            | ND           | 0.0020    |  | mg/kg | 1        | BHJ0111 | 10/02/24 | 10/04/24 | EPA 8260B |       |
| Toluene                            | ND           | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene                       | ND           | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| <b>Xylenes (total)</b>             | <b>0.023</b> | 0.010     |  | "     | "        | "       | "        | "        | "         |       |
| <b>1,2,4-Trimethylbenzene</b>      | <b>0.093</b> | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| <b>1,3,5-Trimethylbenzene</b>      | <b>0.054</b> | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| <b>Naphthalene</b>                 | <b>0.039</b> | 0.0038    |  | "     | "        | "       | "        | "        | "         |       |
| <b>Gasoline Range Hydrocarbons</b> | <b>2.7</b>   | 0.50      |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **10/01/24 11:04**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0376 | 93.9 %    |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0391 | 97.8 %    |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0473 | 118 %     |  | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/01/24 11:04**

| Analyte       | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     |  |       |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        |  | mg/kg | 1        | BHJ0112 | 10/02/24 | 10/05/24 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **10/01/24 11:04**

| Analyte                | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl | 11.4   | 91.4 %    |  | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

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Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]  
Project Manager: Brian Humphrey

**Reported:**  
10/07/24 12:40

**MW01@31.5'**  
**2410014-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/01/24 11:04**

| Analyte                    | Result         | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|----------------------------|----------------|-----------|-------|----------|---------|----------|----------|---------------|-------|
|                            |                | Limit     |       |          |         |          |          |               |       |
| Acenaphthene               | ND             | 0.00500   | mg/kg | 1        | BHJ0059 | 10/02/24 | 10/03/24 | 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   | "     | "        | "       | "        | "        | "             |       |
| <b>Fluorene</b>            | <b>0.00795</b> | 0.00500   | "     | "        | "       | "        | "        | "             |       |
| Indeno (1,2,3-cd) pyrene   | ND             | 0.00500   | "     | "        | "       | "        | "        | "             |       |
| Pyrene                     | ND             | 0.00500   | "     | "        | "       | "        | "        | "             |       |
| <b>1-Methylnaphthalene</b> | <b>0.0369</b>  | 0.00500   | "     | "        | "       | "        | "        | "             |       |
| <b>2-Methylnaphthalene</b> | <b>0.0635</b>  | 0.00500   | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **10/01/24 11:04**

| Analyte                            | Result | Reporting | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
|                                    |        | Limit     |        |          |       |          |          |        |       |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0175 | 52.6 %    | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0187 | 56.1 %    | 40-150 |          | "     | "        | "        | "      |       |

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

Date Sampled: **10/01/24 11:04**

| Analyte | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     |       |          |         |          |          |           |       |
| Boron   | ND     | 2.00      | mg/L  | 1        | BHJ0086 | 10/03/24 | 10/04/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **10/01/24 11:04**

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

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6900 E Layton Ave/ Suite 900  
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Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]  
Project Manager: Brian Humphrey

**Reported:**  
10/07/24 12:40

**MW01@31.5'**  
**2410014-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

|          |       |        |           |   |         |          |          |           |
|----------|-------|--------|-----------|---|---------|----------|----------|-----------|
| Arsenic  | 1.72  | 0.200  | mg/kg dry | 1 | BHJ0130 | 10/03/24 | 10/03/24 | EPA 6020B |
| Barium   | 19.2  | 0.400  | "         | " | "       | "        | "        | "         |
| Cadmium  | ND    | 0.200  | "         | " | "       | "        | "        | "         |
| Copper   | 0.461 | 0.400  | "         | " | "       | "        | "        | "         |
| Lead     | 3.69  | 0.200  | "         | " | "       | "        | "        | "         |
| Nickel   | 0.742 | 0.400  | "         | " | "       | "        | "        | "         |
| Silver   | ND    | 0.0200 | "         | " | "       | "        | "        | "         |
| Zinc     | 4.70  | 0.400  | "         | " | "       | "        | "        | "         |
| Selenium | ND    | 0.260  | "         | " | "       | "        | "        | "         |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/01/24 11:04**

| Analyte              | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            | mg/kg dry | 1        | BHJ0153 | 10/03/24 | 10/03/24 | EPA 7196A |       |

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

Date Sampled: **10/01/24 11:04**

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 9.88   | 0.0500          | mg/L dry | 1        | BHJ0105 | 10/02/24 | 10/04/24 | EPA 6020B |       |
| Magnesium | 2.68   | 0.0500          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 1.60   | 0.0500          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **10/01/24 11:04**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.117  | 0.00100         | units | 1        | BHJ0245 | 10/06/24 | 10/06/24 | Calculation |       |

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

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Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]  
Project Manager: Brian Humphrey

**Reported:**  
10/07/24 12:40

**MW01@31.5'**  
**2410014-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/01/24 11:04**

| Analyte  | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------|--|-------|----------|---------|----------|----------|-------------|-------|
|          |        | Limit     |  |       |          |         |          |          |             |       |
| % Solids | 95.8   |           |  | %     | 1        | BHJ0078 | 10/02/24 | 10/02/24 | Calculation |       |

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

Date Sampled: **10/01/24 11:04**

| Analyte                   | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|                           |        | Limit     |  |          |          |         |          |          |           |       |
| Specific Conductance (EC) | 0.0361 | 0.0100    |  | mmhos/cm | 1        | BHJ0106 | 10/02/24 | 10/03/24 | EPA 120.1 |       |

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

Date Sampled: **10/01/24 11:04**

| Analyte | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     |  |          |          |         |          |          |           |       |
| pH      | 8.09   |           |  | pH Units | 1        | BHJ0107 | 10/02/24 | 10/03/24 | EPA 9045D |       |

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Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]  
Project Manager: Brian Humphrey

**Reported:**  
10/07/24 12:40

**MW01@58.5'**  
**2410014-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/01/24 12:52**

| Analyte                     | Result       | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|                             |              | Limit     |       |          |         |          |          |           |       |
| <b>Benzene</b>              | <b>0.012</b> | 0.0020    | mg/kg | 1        | BHJ0111 | 10/02/24 | 10/04/24 | EPA 8260B |       |
| <b>Toluene</b>              | <b>0.035</b> | 0.0050    | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene                | ND           | 0.0050    | "     | "        | "       | "        | "        | "         |       |
| <b>Xylenes (total)</b>      | <b>0.019</b> | 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: **10/01/24 12:52**

| Analyte                          | Result | Reporting | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0358 | 89.4 %    | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0382 | 95.4 %    | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0398 | 99.5 %    | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/01/24 12:52**

| Analyte       | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     |       |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        | mg/kg | 1        | BHJ0112 | 10/02/24 | 10/05/24 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **10/01/24 12:52**

| Analyte                | Result | Reporting | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl | 8.14   | 65.2 %    | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Phillips 66  
6900 E Layton Ave/ Suite 900  
Denver CO, 80237

Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]  
Project Manager: Brian Humphrey

**Reported:**  
10/07/24 12:40

**MW01@58.5'**  
**2410014-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/01/24 12:52**

| Analyte                       | Result         | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|-------------------------------|----------------|-----------|-------|----------|---------|----------|----------|---------------|-------|
|                               |                | Limit     |       |          |         |          |          |               |       |
| Acenaphthene                  | ND             | 0.00500   | mg/kg | 1        | BHJ0059 | 10/02/24 | 10/03/24 | EPA 8270D SIM |       |
| Anthracene                    | ND             | 0.00500   | "     | "        | "       | "        | "        | "             |       |
| Benzo (a) anthracene          | ND             | 0.00500   | "     | "        | "       | "        | "        | "             |       |
| Benzo (a) pyrene              | ND             | 0.00500   | "     | "        | "       | "        | "        | "             |       |
| <b>Benzo (b) fluoranthene</b> | <b>0.00537</b> | 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: **10/01/24 12:52**

| Analyte                            | Result | Reporting | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
|                                    |        | Limit     |        |          |       |          |          |        |       |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0175 | 52.5 %    | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0180 | 53.9 %    | 40-150 |          | "     | "        | "        | "      |       |

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

Date Sampled: **10/01/24 12:52**

| Analyte | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     |       |          |         |          |          |           |       |
| Boron   | ND     | 2.00      | mg/L  | 1        | BHJ0086 | 10/03/24 | 10/04/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **10/01/24 12:52**

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

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Phillips 66  
6900 E Layton Ave/ Suite 900  
Denver CO, 80237

Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]  
Project Manager: Brian Humphrey

**Reported:**  
10/07/24 12:40

**MW01@58.5'**  
**2410014-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

|          |       |        |           |   |         |          |          |           |
|----------|-------|--------|-----------|---|---------|----------|----------|-----------|
| Arsenic  | 0.542 | 0.200  | mg/kg dry | 1 | BHJ0130 | 10/03/24 | 10/03/24 | EPA 6020B |
| Barium   | 48.9  | 0.400  | "         | " | "       | "        | "        | "         |
| Cadmium  | ND    | 0.200  | "         | " | "       | "        | "        | "         |
| Copper   | 3.09  | 0.400  | "         | " | "       | "        | "        | "         |
| Lead     | 17.5  | 0.200  | "         | " | "       | "        | "        | "         |
| Nickel   | 2.51  | 0.400  | "         | " | "       | "        | "        | "         |
| Silver   | 0.135 | 0.0200 | "         | " | "       | "        | "        | "         |
| Zinc     | 11.9  | 0.400  | "         | " | "       | "        | "        | "         |
| Selenium | 0.366 | 0.260  | "         | " | "       | "        | "        | "         |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/01/24 12:52**

| Analyte              | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            | mg/kg dry | 1        | BHJ0153 | 10/03/24 | 10/03/24 | EPA 7196A |       |

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

Date Sampled: **10/01/24 12:52**

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 29.9   | 0.0500          | mg/L dry | 1        | BHJ0105 | 10/02/24 | 10/04/24 | EPA 6020B |       |
| Magnesium | 9.67   | 0.0500          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 8.93   | 0.0500          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **10/01/24 12:52**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.363  | 0.00100         | units | 1        | BHJ0245 | 10/06/24 | 10/06/24 | Calculation |       |

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

Date Sampled: **10/01/24 12:52**

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

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Phillips 66  
6900 E Layton Ave/ Suite 900  
Denver CO, 80237

Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]  
Project Manager: Brian Humphrey

**Reported:**  
10/07/24 12:40

**MW01@58.5'**  
**2410014-02 (Soil)**

**Summit Scientific**

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

|          |      |   |   |         |          |          |             |
|----------|------|---|---|---------|----------|----------|-------------|
| % Solids | 86.4 | % | 1 | BHJ0078 | 10/02/24 | 10/02/24 | Calculation |
|----------|------|---|---|---------|----------|----------|-------------|

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

Date Sampled: **10/01/24 12:52**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.157  | 0.0100          | mmhos/cm | 1        | BHJ0106 | 10/02/24 | 10/03/24 | EPA 120.1 |       |

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

Date Sampled: **10/01/24 12:52**

| Analyte | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH      | 9.26   |                 | pH Units | 1        | BHJ0107 | 10/02/24 | 10/03/24 | EPA 9045D |       |

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Phillips 66  
6900 E Layton Ave/ Suite 900  
Denver CO, 80237

Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]  
Project Manager: Brian Humphrey

**Reported:**  
10/07/24 12:40

## 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 BHJ0111 - EPA 5030 Soil MS

##### Blank (BHJ0111-BLK1)

Prepared: 10/02/24 Analyzed: 10/03/24

|                                  |        |        |       |        |  |      |        |  |  |  |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|
| 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 | 0.0386 |        | "     | 0.0400 |  | 96.6 | 50-150 |  |  |  |
| Surrogate: Toluene-d8            | 0.0404 |        | "     | 0.0400 |  | 101  | 50-150 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.0377 |        | "     | 0.0400 |  | 94.3 | 50-150 |  |  |  |

##### LCS (BHJ0111-BS1)

Prepared: 10/02/24 Analyzed: 10/03/24

|                                  |        |        |       |        |  |      |        |  |  |  |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene                          | 0.0963 | 0.0020 | mg/kg | 0.100  |  | 96.3 | 70-130 |  |  |  |
| Toluene                          | 0.0971 | 0.0050 | "     | 0.100  |  | 97.1 | 70-130 |  |  |  |
| Ethylbenzene                     | 0.0966 | 0.0050 | "     | 0.100  |  | 96.6 | 70-130 |  |  |  |
| m,p-Xylene                       | 0.195  | 0.010  | "     | 0.200  |  | 97.7 | 70-130 |  |  |  |
| o-Xylene                         | 0.0976 | 0.0050 | "     | 0.100  |  | 97.6 | 70-130 |  |  |  |
| 1,2,4-Trimethylbenzene           | 0.0931 | 0.0050 | "     | 0.100  |  | 93.1 | 70-130 |  |  |  |
| 1,3,5-Trimethylbenzene           | 0.0948 | 0.0050 | "     | 0.100  |  | 94.8 | 70-130 |  |  |  |
| Naphthalene                      | 0.0865 | 0.0038 | "     | 0.100  |  | 86.5 | 70-130 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0403 |        | "     | 0.0400 |  | 101  | 50-150 |  |  |  |
| Surrogate: Toluene-d8            | 0.0407 |        | "     | 0.0400 |  | 102  | 50-150 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.0390 |        | "     | 0.0400 |  | 97.5 | 50-150 |  |  |  |

##### Matrix Spike (BHJ0111-MS1)

Source: 2409364-03

Prepared: 10/02/24 Analyzed: 10/03/24

|                                  |        |        |       |        |        |      |        |  |  |       |
|----------------------------------|--------|--------|-------|--------|--------|------|--------|--|--|-------|
| Benzene                          | 0.0904 | 0.0020 | mg/kg | 0.100  | ND     | 90.4 | 70-130 |  |  |       |
| Toluene                          | 0.0867 | 0.0050 | "     | 0.100  | ND     | 86.7 | 70-130 |  |  |       |
| Ethylbenzene                     | 0.0823 | 0.0050 | "     | 0.100  | ND     | 82.3 | 70-130 |  |  |       |
| m,p-Xylene                       | 0.160  | 0.010  | "     | 0.200  | ND     | 80.0 | 70-130 |  |  |       |
| o-Xylene                         | 0.0861 | 0.0050 | "     | 0.100  | ND     | 86.1 | 70-130 |  |  |       |
| 1,2,4-Trimethylbenzene           | 0.0658 | 0.0050 | "     | 0.100  | ND     | 65.8 | 70-130 |  |  | QM-05 |
| 1,3,5-Trimethylbenzene           | 0.105  | 0.0050 | "     | 0.100  | 0.0209 | 84.0 | 70-130 |  |  |       |
| Naphthalene                      | 0.0768 | 0.0038 | "     | 0.100  | ND     | 76.8 | 70-130 |  |  |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0381 |        | "     | 0.0400 |        | 95.2 | 50-150 |  |  |       |
| Surrogate: Toluene-d8            | 0.0396 |        | "     | 0.0400 |        | 99.1 | 50-150 |  |  |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0473 |        | "     | 0.0400 |        | 118  | 50-150 |  |  |       |

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Phillips 66  
6900 E Layton Ave/ Suite 900  
Denver CO, 80237

Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]  
Project Manager: Brian Humphrey

**Reported:**  
10/07/24 12:40

**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 BHJ0111 - EPA 5030 Soil MS**

| Matrix Spike Dup (BHJ0111-MSD1)  |        | Source: 2409364-03 |       |        | Prepared: 10/02/24 Analyzed: 10/03/24 |      |        |       |    |       |
|----------------------------------|--------|--------------------|-------|--------|---------------------------------------|------|--------|-------|----|-------|
| Benzene                          | 0.0921 | 0.0020             | mg/kg | 0.100  | ND                                    | 92.1 | 70-130 | 1.84  | 30 |       |
| Toluene                          | 0.0873 | 0.0050             | "     | 0.100  | ND                                    | 87.3 | 70-130 | 0.655 | 30 |       |
| Ethylbenzene                     | 0.0780 | 0.0050             | "     | 0.100  | ND                                    | 78.0 | 70-130 | 5.32  | 30 |       |
| m,p-Xylene                       | 0.151  | 0.010              | "     | 0.200  | ND                                    | 75.5 | 70-130 | 5.83  | 30 |       |
| o-Xylene                         | 0.0830 | 0.0050             | "     | 0.100  | ND                                    | 83.0 | 70-130 | 3.62  | 30 |       |
| 1,2,4-Trimethylbenzene           | 0.0606 | 0.0050             | "     | 0.100  | ND                                    | 60.6 | 70-130 | 8.25  | 30 | QM-05 |
| 1,3,5-Trimethylbenzene           | 0.103  | 0.0050             | "     | 0.100  | 0.0209                                | 81.6 | 70-130 | 2.37  | 30 |       |
| Naphthalene                      | 0.0615 | 0.0038             | "     | 0.100  | ND                                    | 61.5 | 70-130 | 22.1  | 30 | QM-05 |
| Surrogate: 1,2-Dichloroethane-d4 |        | 0.0399             | "     | 0.0400 |                                       | 99.8 | 50-150 |       |    |       |
| Surrogate: Toluene-d8            |        | 0.0406             | "     | 0.0400 |                                       | 102  | 50-150 |       |    |       |
| Surrogate: 4-Bromofluorobenzene  |        | 0.0468             | "     | 0.0400 |                                       | 117  | 50-150 |       |    |       |

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Phillips 66  
6900 E Layton Ave/ Suite 900  
Denver CO, 80237

Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]  
Project Manager: Brian Humphrey

**Reported:**  
10/07/24 12:40

**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 BHJ0112 - EPA 3550A**

**Blank (BHJ0112-BLK1)**

Prepared: 10/02/24 Analyzed: 10/05/24

|                        |      |    |       |      |  |     |        |  |  |  |
|------------------------|------|----|-------|------|--|-----|--------|--|--|--|
| C10-C28 (DRO)          | ND   | 50 | mg/kg |      |  |     |        |  |  |  |
| C28-C36 (ORO)          | ND   | 50 | "     |      |  |     |        |  |  |  |
| Surrogate: o-Terphenyl | 13.5 |    | "     | 12.5 |  | 108 | 30-150 |  |  |  |

**LCS (BHJ0112-BS1)**

Prepared: 10/02/24 Analyzed: 10/05/24

|                        |      |    |       |      |  |     |        |  |  |  |
|------------------------|------|----|-------|------|--|-----|--------|--|--|--|
| C10-C28 (DRO)          | 590  | 50 | mg/kg | 500  |  | 118 | 70-130 |  |  |  |
| Surrogate: o-Terphenyl | 13.9 |    | "     | 12.5 |  | 111 | 30-150 |  |  |  |

**Matrix Spike (BHJ0112-MS1)**

Source: 2409364-03

Prepared: 10/02/24 Analyzed: 10/05/24

|                        |      |    |       |      |     |      |        |  |  |       |
|------------------------|------|----|-------|------|-----|------|--------|--|--|-------|
| C10-C28 (DRO)          | 923  | 50 | mg/kg | 500  | 153 | 154  | 70-130 |  |  | QM-01 |
| Surrogate: o-Terphenyl | 11.3 |    | "     | 12.5 |     | 90.7 | 30-150 |  |  |       |

**Matrix Spike Dup (BHJ0112-MSD1)**

Source: 2409364-03

Prepared: 10/02/24 Analyzed: 10/05/24

|                        |      |    |       |      |     |      |        |      |    |       |
|------------------------|------|----|-------|------|-----|------|--------|------|----|-------|
| C10-C28 (DRO)          | 866  | 50 | mg/kg | 500  | 153 | 143  | 70-130 | 6.35 | 20 | QM-01 |
| Surrogate: o-Terphenyl | 12.0 |    | "     | 12.5 |     | 95.8 | 30-150 |      |    |       |

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6900 E Layton Ave/ Suite 900  
Denver CO, 80237

Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]  
Project Manager: Brian Humphrey

**Reported:**  
10/07/24 12:40

### 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 BHJ0059 - EPA 5030 Soil MS

##### Blank (BHJ0059-BLK1)

Prepared: 10/02/24 Analyzed: 10/03/24

|                                    |        |         |       |        |  |      |        |  |  |  |
|------------------------------------|--------|---------|-------|--------|--|------|--------|--|--|--|
| 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 | 0.0186 |         | "     | 0.0333 |  | 55.9 | 40-150 |  |  |  |
| Surrogate: Fluoranthene-d10        | 0.0217 |         | "     | 0.0333 |  | 65.0 | 40-150 |  |  |  |

##### LCS (BHJ0059-BS1)

Prepared: 10/02/24 Analyzed: 10/03/24

|                                    |        |         |       |        |  |      |        |  |  |  |
|------------------------------------|--------|---------|-------|--------|--|------|--------|--|--|--|
| Acenaphthene                       | 0.0253 | 0.00500 | mg/kg | 0.0333 |  | 76.0 | 31-137 |  |  |  |
| Anthracene                         | 0.0253 | 0.00500 | "     | 0.0333 |  | 76.0 | 30-120 |  |  |  |
| Benzo (a) anthracene               | 0.0266 | 0.00500 | "     | 0.0333 |  | 79.8 | 30-120 |  |  |  |
| Benzo (a) pyrene                   | 0.0240 | 0.00500 | "     | 0.0333 |  | 72.1 | 30-120 |  |  |  |
| Benzo (b) fluoranthene             | 0.0245 | 0.00500 | "     | 0.0333 |  | 73.6 | 30-120 |  |  |  |
| Benzo (k) fluoranthene             | 0.0244 | 0.00500 | "     | 0.0333 |  | 73.2 | 30-120 |  |  |  |
| Chrysene                           | 0.0261 | 0.00500 | "     | 0.0333 |  | 78.4 | 30-120 |  |  |  |
| Dibenz (a,h) anthracene            | 0.0227 | 0.00500 | "     | 0.0333 |  | 68.1 | 30-120 |  |  |  |
| Fluoranthene                       | 0.0246 | 0.00500 | "     | 0.0333 |  | 73.7 | 30-120 |  |  |  |
| Fluorene                           | 0.0259 | 0.00500 | "     | 0.0333 |  | 77.6 | 30-120 |  |  |  |
| Indeno (1,2,3-cd) pyrene           | 0.0143 | 0.00500 | "     | 0.0333 |  | 43.0 | 30-120 |  |  |  |
| Pyrene                             | 0.0252 | 0.00500 | "     | 0.0333 |  | 75.7 | 35-142 |  |  |  |
| 1-Methylnaphthalene                | 0.0213 | 0.00500 | "     | 0.0333 |  | 64.0 | 35-142 |  |  |  |
| 2-Methylnaphthalene                | 0.0217 | 0.00500 | "     | 0.0333 |  | 65.1 | 35-142 |  |  |  |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0219 |         | "     | 0.0333 |  | 65.7 | 40-150 |  |  |  |
| Surrogate: Fluoranthene-d10        | 0.0241 |         | "     | 0.0333 |  | 72.3 | 40-150 |  |  |  |

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Phillips 66  
6900 E Layton Ave/ Suite 900  
Denver CO, 80237

Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]  
Project Manager: Brian Humphrey

**Reported:**  
10/07/24 12:40

### 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 BHJ0059 - EPA 5030 Soil MS

##### Matrix Spike (BHJ0059-MS1)

Source: 2409475-01

Prepared: 10/02/24 Analyzed: 10/03/24

|                                    |        |         |       |        |    |      |        |  |  |
|------------------------------------|--------|---------|-------|--------|----|------|--------|--|--|
| Acenaphthene                       | 0.0201 | 0.00500 | mg/kg | 0.0333 | ND | 60.2 | 31-137 |  |  |
| Anthracene                         | 0.0200 | 0.00500 | "     | 0.0333 | ND | 59.9 | 30-120 |  |  |
| Benzo (a) anthracene               | 0.0201 | 0.00500 | "     | 0.0333 | ND | 60.4 | 30-120 |  |  |
| Benzo (a) pyrene                   | 0.0175 | 0.00500 | "     | 0.0333 | ND | 52.6 | 30-120 |  |  |
| Benzo (b) fluoranthene             | 0.0170 | 0.00500 | "     | 0.0333 | ND | 51.0 | 30-120 |  |  |
| Benzo (k) fluoranthene             | 0.0180 | 0.00500 | "     | 0.0333 | ND | 53.9 | 30-120 |  |  |
| Chrysene                           | 0.0194 | 0.00500 | "     | 0.0333 | ND | 58.3 | 30-120 |  |  |
| Dibenz (a,h) anthracene            | 0.0165 | 0.00500 | "     | 0.0333 | ND | 49.6 | 30-120 |  |  |
| Fluoranthene                       | 0.0187 | 0.00500 | "     | 0.0333 | ND | 56.2 | 30-120 |  |  |
| Fluorene                           | 0.0209 | 0.00500 | "     | 0.0333 | ND | 62.6 | 30-120 |  |  |
| Indeno (1,2,3-cd) pyrene           | 0.0162 | 0.00500 | "     | 0.0333 | ND | 48.5 | 30-120 |  |  |
| Pyrene                             | 0.0203 | 0.00500 | "     | 0.0333 | ND | 60.8 | 35-142 |  |  |
| 1-Methylnaphthalene                | 0.0182 | 0.00500 | "     | 0.0333 | ND | 54.5 | 15-130 |  |  |
| 2-Methylnaphthalene                | 0.0193 | 0.00500 | "     | 0.0333 | ND | 58.0 | 15-130 |  |  |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0190 |         | "     | 0.0333 |    | 57.0 | 40-150 |  |  |
| Surrogate: Fluoranthene-d10        | 0.0185 |         | "     | 0.0333 |    | 55.5 | 40-150 |  |  |

##### Matrix Spike Dup (BHJ0059-MSD1)

Source: 2409475-01

Prepared: 10/02/24 Analyzed: 10/03/24

|                                    |        |         |       |        |    |      |        |       |    |
|------------------------------------|--------|---------|-------|--------|----|------|--------|-------|----|
| Acenaphthene                       | 0.0200 | 0.00500 | mg/kg | 0.0333 | ND | 60.0 | 31-137 | 0.298 | 30 |
| Anthracene                         | 0.0190 | 0.00500 | "     | 0.0333 | ND | 57.1 | 30-120 | 4.84  | 30 |
| Benzo (a) anthracene               | 0.0202 | 0.00500 | "     | 0.0333 | ND | 60.6 | 30-120 | 0.405 | 30 |
| Benzo (a) pyrene                   | 0.0178 | 0.00500 | "     | 0.0333 | ND | 53.5 | 30-120 | 1.58  | 30 |
| Benzo (b) fluoranthene             | 0.0177 | 0.00500 | "     | 0.0333 | ND | 53.0 | 30-120 | 3.75  | 30 |
| Benzo (k) fluoranthene             | 0.0177 | 0.00500 | "     | 0.0333 | ND | 53.2 | 30-120 | 1.17  | 30 |
| Chrysene                           | 0.0196 | 0.00500 | "     | 0.0333 | ND | 58.9 | 30-120 | 1.05  | 30 |
| Dibenz (a,h) anthracene            | 0.0163 | 0.00500 | "     | 0.0333 | ND | 48.8 | 30-120 | 1.60  | 30 |
| Fluoranthene                       | 0.0181 | 0.00500 | "     | 0.0333 | ND | 54.4 | 30-120 | 3.29  | 30 |
| Fluorene                           | 0.0204 | 0.00500 | "     | 0.0333 | ND | 61.1 | 30-120 | 2.38  | 30 |
| Indeno (1,2,3-cd) pyrene           | 0.0217 | 0.00500 | "     | 0.0333 | ND | 65.1 | 30-120 | 29.2  | 30 |
| Pyrene                             | 0.0208 | 0.00500 | "     | 0.0333 | ND | 62.4 | 35-142 | 2.67  | 30 |
| 1-Methylnaphthalene                | 0.0167 | 0.00500 | "     | 0.0333 | ND | 50.0 | 15-130 | 8.51  | 50 |
| 2-Methylnaphthalene                | 0.0175 | 0.00500 | "     | 0.0333 | ND | 52.6 | 15-130 | 9.76  | 50 |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0173 |         | "     | 0.0333 |    | 52.0 | 40-150 |       |    |
| Surrogate: Fluoranthene-d10        | 0.0180 |         | "     | 0.0333 |    | 53.9 | 40-150 |       |    |

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Phillips 66  
6900 E Layton Ave/ Suite 900  
Denver CO, 80237

Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]  
Project Manager: Brian Humphrey

**Reported:**  
10/07/24 12:40

**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 BHJ0086 - EPA 3050B**

**Blank (BHJ0086-BLK1)**

Prepared: 10/02/24 Analyzed: 10/04/24

Boron ND 2.00 mg/L

**LCS (BHJ0086-BS1)**

Prepared: 10/02/24 Analyzed: 10/04/24

Boron 4.95 2.00 mg/L 5.00 99.0 80-120

**Duplicate (BHJ0086-DUP1)**

Source: 2409325-01

Prepared: 10/02/24 Analyzed: 10/04/24

Boron 0.135 2.00 mg/L 0.164 18.8 20

**Matrix Spike (BHJ0086-MS1)**

Source: 2409325-01

Prepared: 10/02/24 Analyzed: 10/04/24

Boron 4.92 2.00 mg/L 5.00 0.164 95.1 75-125

**Matrix Spike Dup (BHJ0086-MSD1)**

Source: 2409325-01

Prepared: 10/02/24 Analyzed: 10/04/24

Boron 5.12 2.00 mg/L 5.00 0.164 99.2 75-125 4.12 25

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Phillips 66  
6900 E Layton Ave/ Suite 900  
Denver CO, 80237

Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]  
Project Manager: Brian Humphrey

**Reported:**  
10/07/24 12:40

**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 BHJ0130 - EPA 3050B**

**Blank (BHJ0130-BLK1)**

Prepared & Analyzed: 10/03/24

|          |    |        |           |
|----------|----|--------|-----------|
| 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 (BHJ0130-BS1)**

Prepared & Analyzed: 10/03/24

|          |      |        |           |      |      |        |
|----------|------|--------|-----------|------|------|--------|
| Arsenic  | 35.3 | 0.181  | mg/kg wet | 36.2 | 97.4 | 80-120 |
| Barium   | 33.1 | 0.362  | "         | 36.2 | 91.5 | 80-120 |
| Cadmium  | 1.69 | 0.181  | "         | 1.81 | 93.0 | 80-120 |
| Copper   | 35.5 | 0.362  | "         | 36.2 | 98.1 | 80-120 |
| Lead     | 17.0 | 0.181  | "         | 18.1 | 93.9 | 80-120 |
| Nickel   | 35.3 | 0.362  | "         | 36.2 | 97.3 | 80-120 |
| Silver   | 1.68 | 0.0181 | "         | 1.81 | 92.6 | 80-120 |
| Zinc     | 35.4 | 0.362  | "         | 36.2 | 97.7 | 80-120 |
| Selenium | 3.67 | 0.236  | "         | 3.62 | 101  | 80-120 |

**Duplicate (BHJ0130-DUP1)**

Source: 2409325-01

Prepared & Analyzed: 10/03/24

|          |        |        |           |        |      |    |       |
|----------|--------|--------|-----------|--------|------|----|-------|
| Arsenic  | 9.46   | 0.200  | mg/kg dry | 9.24   | 2.38 | 20 | QR-01 |
| Barium   | 178    | 0.400  | "         | 148    | 18.3 | 20 |       |
| Cadmium  | 0.0158 | 0.200  | "         | 0.0116 | 30.5 | 20 |       |
| Copper   | 1.03   | 0.400  | "         | 0.990  | 3.70 | 20 |       |
| Lead     | 5.70   | 0.200  | "         | 5.42   | 5.01 | 20 |       |
| Nickel   | 0.463  | 0.400  | "         | 0.377  | 20.5 | 20 | QR-01 |
| Silver   | 0.0326 | 0.0200 | "         | 0.0349 | 6.78 | 20 |       |
| Zinc     | 0.639  | 0.400  | "         | 0.712  | 10.8 | 20 |       |
| Selenium | 1.45   | 0.260  | "         | 1.33   | 8.83 | 20 |       |

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Phillips 66  
6900 E Layton Ave/ Suite 900  
Denver CO, 80237

Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]  
Project Manager: Brian Humphrey

**Reported:**  
10/07/24 12:40

**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 BHJ0130 - EPA 3050B**

**Matrix Spike (BHJ0130-MS1)**

**Source: 2409325-01**

**Prepared & Analyzed: 10/03/24**

|          |      |        |           |      |        |      |        |  |  |       |
|----------|------|--------|-----------|------|--------|------|--------|--|--|-------|
| Arsenic  | 41.8 | 0.200  | mg/kg dry | 51.3 | 9.24   | 63.4 | 75-125 |  |  | QM-05 |
| Barium   | 228  | 0.400  | "         | 51.3 | 148    | 156  | 75-125 |  |  | QM-05 |
| Cadmium  | 2.35 | 0.200  | "         | 2.57 | 0.0116 | 91.2 | 75-125 |  |  |       |
| Copper   | 31.8 | 0.400  | "         | 51.3 | 0.990  | 60.0 | 75-125 |  |  | QM-05 |
| Lead     | 27.7 | 0.200  | "         | 25.7 | 5.42   | 86.8 | 75-125 |  |  |       |
| Nickel   | 31.2 | 0.400  | "         | 51.3 | 0.377  | 60.1 | 75-125 |  |  | QM-05 |
| Silver   | 2.31 | 0.0200 | "         | 2.57 | 0.0349 | 88.7 | 75-125 |  |  |       |
| Zinc     | 31.0 | 0.400  | "         | 51.3 | 0.712  | 59.0 | 75-125 |  |  | QM-05 |
| Selenium | 6.22 | 0.260  | "         | 5.13 | 1.33   | 95.3 | 75-125 |  |  |       |

**Matrix Spike Dup (BHJ0130-MSD1)**

**Source: 2409325-01**

**Prepared & Analyzed: 10/03/24**

|          |      |        |           |      |        |      |        |        |    |       |
|----------|------|--------|-----------|------|--------|------|--------|--------|----|-------|
| Arsenic  | 41.6 | 0.181  | mg/kg dry | 46.5 | 9.24   | 69.7 | 75-125 | 0.288  | 25 | QM-05 |
| Barium   | 219  | 0.362  | "         | 46.5 | 148    | 152  | 75-125 | 4.19   | 25 | QM-05 |
| Cadmium  | 2.12 | 0.181  | "         | 2.32 | 0.0116 | 90.7 | 75-125 | 10.5   | 25 |       |
| Copper   | 27.3 | 0.362  | "         | 46.5 | 0.990  | 56.6 | 75-125 | 15.1   | 25 | QM-05 |
| Lead     | 25.4 | 0.181  | "         | 23.2 | 5.42   | 86.2 | 75-125 | 8.47   | 25 |       |
| Nickel   | 26.8 | 0.362  | "         | 46.5 | 0.377  | 56.9 | 75-125 | 15.2   | 25 | QM-05 |
| Silver   | 2.10 | 0.0181 | "         | 2.32 | 0.0349 | 89.0 | 75-125 | 9.49   | 25 |       |
| Zinc     | 26.4 | 0.362  | "         | 46.5 | 0.712  | 55.2 | 75-125 | 16.2   | 25 | QM-05 |
| Selenium | 6.21 | 0.236  | "         | 4.65 | 1.33   | 105  | 75-125 | 0.0505 | 25 |       |

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Phillips 66  
6900 E Layton Ave/ Suite 900  
Denver CO, 80237

Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]  
Project Manager: Brian Humphrey

**Reported:**  
10/07/24 12:40

**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 BHJ0153 - 3060A Mod**

**Blank (BHJ0153-BLK1)**

Prepared & Analyzed: 10/03/24

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BHJ0153-BS1)**

Prepared & Analyzed: 10/03/24

Chromium, Hexavalent 26.4 0.30 mg/kg wet 25.0 106 80-120

**Duplicate (BHJ0153-DUP1)**

Source: 2409325-01

Prepared & Analyzed: 10/03/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BHJ0153-MS1)**

Source: 2409325-01

Prepared & Analyzed: 10/03/24

Chromium, Hexavalent 33.7 0.30 mg/kg dry 32.1 ND 105 75-125

**Matrix Spike Dup (BHJ0153-MSD1)**

Source: 2409325-01

Prepared & Analyzed: 10/03/24

Chromium, Hexavalent 33.8 0.30 mg/kg dry 32.1 ND 105 75-125 0.380 20

Summit Scientific

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Phillips 66  
6900 E Layton Ave/ Suite 900  
Denver CO, 80237

Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]  
Project Manager: Brian Humphrey

**Reported:**  
10/07/24 12:40

**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 BHJ0105 - General Preparation**

**Blank (BHJ0105-BLK1)**

Prepared: 10/02/24 Analyzed: 10/04/24

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

**LCS (BHJ0105-BS1)**

Prepared: 10/02/24 Analyzed: 10/04/24

|           |      |        |          |      |     |        |
|-----------|------|--------|----------|------|-----|--------|
| Calcium   | 5.28 | 0.0500 | mg/L wet | 5.00 | 106 | 70-130 |
| Magnesium | 5.07 | 0.0500 | "        | 5.00 | 101 | 70-130 |
| Sodium    | 5.02 | 0.0500 | "        | 5.00 | 100 | 70-130 |

Summit Scientific

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Phillips 66  
6900 E Layton Ave/ Suite 900  
Denver CO, 80237

Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]  
Project Manager: Brian Humphrey

**Reported:**  
10/07/24 12:40

**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 BHJ0078 - General Preparation**

| Duplicate (BHJ0078-DUP1) |      |  | Source: 2410004-01 |  |      | Prepared & Analyzed: 10/02/24 |       |  |    |  |
|--------------------------|------|--|--------------------|--|------|-------------------------------|-------|--|----|--|
| % Solids                 | 86.1 |  | %                  |  | 86.2 |                               | 0.107 |  | 20 |  |

Summit Scientific

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Phillips 66  
6900 E Layton Ave/ Suite 900  
Denver CO, 80237

Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]  
Project Manager: Brian Humphrey

**Reported:**  
10/07/24 12:40

**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 BHJ0106 - General Preparation**

**Blank (BHJ0106-BLK1)**

Prepared: 10/02/24 Analyzed: 10/03/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHJ0106-BS1)**

Prepared: 10/02/24 Analyzed: 10/03/24

Specific Conductance (EC) 0.157 0.0100 mmhos/cm 0.150 104 95-105

**Duplicate (BHJ0106-DUP1)**

**Source: 2409364-03**

Prepared: 10/02/24 Analyzed: 10/03/24

Specific Conductance (EC) 0.175 0.0100 mmhos/cm 0.177 1.19 20

Summit Scientific

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Phillips 66  
6900 E Layton Ave/ Suite 900  
Denver CO, 80237

Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]  
Project Manager: Brian Humphrey

**Reported:**  
10/07/24 12:40

**Physical Parameters by APHA/ASTM/EPA Methods, 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 BHJ0107 - General Preparation**

|                                 |      |  |          |  |  |       |        |  |  |  |
|---------------------------------|------|--|----------|--|--|-------|--------|--|--|--|
| <b>LCS (BHJ0107-BS1)</b>        |      |  |          | Prepared: 10/02/24 Analyzed: 10/03/24                    |  |       |        |  |  |  |
| pH                              | 9.17 |  | pH Units | 9.18   |  | 99.9  | 95-105 |  |  |  |
| <b>Duplicate (BHJ0107-DUP1)</b> |      |  |          | Source: 2409364-03 Prepared: 10/02/24 Analyzed: 10/03/24 |  |       |        |  |  |  |
| pH                              | 8.55 |  | pH Units | 8.56   |  | 0.117 | 20     |  |  |  |

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Phillips 66  
6900 E Layton Ave/ Suite 900  
Denver CO, 80237

Project: Four Parmlee (H-6-9) 3/2024

Project Number: [none]  
Project Manager: Brian Humphrey

**Reported:**  
10/07/24 12:40

### Notes and Definitions

|       |   |
|-------|---|
| QR-01 | Analyses are not controlled on RPD values from sample concentrations below the reporting limit. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.                   |
| QM-05 | The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.                |
| QM-01 | The spike recovery for this QC sample is outside of established control limits due to sample matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values. |
| 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   |