

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 08, 2021

Chris Roy

WSP

4600 West 60th Avenue

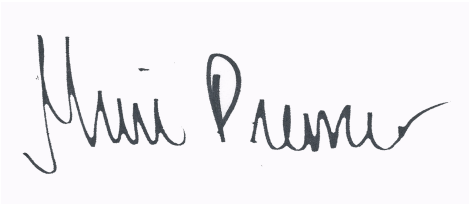
Arvada, CO 80003

RE: Waag South Pad

Work Order #2108453

Enclosed are the results of analyses for samples received by Summit Scientific on 08/31/21 15:18. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large initial "M" and a long, sweeping underline.

Muri Premer For Paul Shrewsbury
President



WSP
4600 West 60th Avenue
Arvada CO, 80003

Project: Waag South Pad

Project Number: [none]
Project Manager: Chris Roy

Reported:
09/08/21 12:50

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| SS01 | 2108453-01 | Soil | 08/31/21 01:20 | 08/31/21 15:18 |

Summit Scientific

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

Summit Scientific

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310 ♦ 303-374-5933 (f)

Client: WSP USA Inc. Project Manager: Chris Roy
Address: 4600 West 60th Ave E-Mail: chris.roy@wsp.com, drew.bullinger@wsp.com
City/State/Zip: Arvada, CO 80003
Phone: 303-829-5763 Project Name: Waag South Pad
Sampler Name: Brian Podobnik Project Number: to be determined

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative | | | | Matrix | | | Analysis Requested | | | | | | Special Instructions | |
|----|--------------------|--------------|--------------|-----------------|--------------|------------------|------|-------|--------|------|----------------|--------------------|----------------|--|--|--|--|----------------------|--|
| | | | | | HCl | HNO ₃ | None | Other | Water | Soil | Air-Canister # | Other | full Table 915 | | | | | | |
| 1 | SS01 | 8/31/21 | 01:20 | 4 | | | X | | | X | | | X | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | |

| | | | | | |
|------------------------------------|-----------------------------|---------------------------------|--------------------------|--|--------|
| Relinquished by: <i>B Podobnik</i> | Date/Time: 8/31/21 03:18 PM | Received by: <i>[Signature]</i> | Date/Time: 8/31/21 15:18 | Turn Around Time (Check) Same Day <input checked="" type="checkbox"/> 72 hours ___ 24 hours ___ Standard ___ 48 hours ___ Sample Integrity: Temperature Upon Receipt: 11.2 Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No | Notes: |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | | |

Sample Receipt Checklist

S2 Work Order 2108453

Client: WSP Client Project ID: Waag South Pad

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

Matrix (check all that apply): Air Soil/Solid Water Other: _____
(Describe)

| | |
|-----------|-------------|
| Temp (°C) | <u>11.2</u> |
|-----------|-------------|

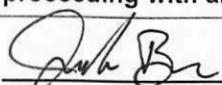
Thermometer ID: 61857155-K

| | Yes | No | N/A | Comments (if any) |
|---|-------------------------------------|--------------------------|-------------------------------------|-------------------|
| If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <u>On ice.</u> |
| Were all samples received intact ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was adequate sample volume provided ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| If custody seals are present, are they intact ⁽¹⁾ ? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Are samples with holding times due within 48 hours sample due within 48 hours present? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <u>Same day.</u> |
| Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| For volatiles in water – is there headspace present? If yes, contact client and note in narrative. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If dissolved metals are requested, were samples field filtered? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |

Additional Comments (if any):

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

JB
Custodian Printed Name or Initials


Signature of Custodian

8/31/21
Date/Time



WSP
4600 West 60th Avenue
Arvada CO, 80003

Project: Waag South Pad

Project Number: [none]
Project Manager: Chris Roy

Reported:
09/08/21 12:50

SS01
2108453-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/31/21 01:20**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | 10 | 0.020 | | mg/kg | 10 | BEH0593 | 08/31/21 | 08/31/21 | EPA 8260B | E |
| Toluene | 17 | 0.050 | | " | " | " | " | " | " | E |
| Ethylbenzene | 8.7 | 0.050 | | " | " | " | " | " | " | E |
| Xylenes (total) | 40 | 0.10 | | " | " | " | " | " | " | E |
| 1,2,4-Trimethylbenzene | 4.7 | 0.050 | | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | 4.3 | 0.050 | | " | " | " | " | " | " | |
| Naphthalene | 4.6 | 0.038 | | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | 6400 | 5.0 | | " | " | " | " | " | " | E |

Date Sampled: **08/31/21 01:20**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 107 % | | 23-173 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 75.0 % | | 20-170 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 208 % | | 21-167 | | " | " | " | " | S-02 |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/31/21 01:20**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| C10-C28 (DRO) | 6500 | 50 | | mg/kg | 1 | BEH0592 | " | 08/31/21 | EPA 8015M | |
| C28-C36 (ORO) | 790 | 50 | | " | " | " | " | " | " | |

Date Sampled: **08/31/21 01:20**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: o-Terphenyl | | 147 % | | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

R-01

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WSP
4600 West 60th Avenue
Arvada CO, 80003

Project: Waag South Pad

Project Number: [none]
Project Manager: Chris Roy

Reported:
09/08/21 12:50

SS01
2108453-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

R-01

Date Sampled: **08/31/21 01:20**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.0500 | mg/kg | 10 | BEI0005 | 09/01/21 | 09/04/21 | EPA 8270D SIM | |
| Anthracene | ND | 0.0500 | " | " | " | " | " | " | |
| Benzo (a) anthracene | 0.262 | 0.0500 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.0500 | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.0500 | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.0500 | " | " | " | " | " | " | |
| Chrysene | 0.173 | 0.0500 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.0500 | " | " | " | " | " | " | |
| Fluoranthene | ND | 0.0500 | " | " | " | " | " | " | |
| Fluorene | 1.07 | 0.0500 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.0500 | " | " | " | " | " | " | |
| Pyrene | ND | 0.0500 | " | " | " | " | " | " | |
| 1-Methylnaphthalene | 13.7 | 0.0500 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | 16.7 | 0.0500 | " | " | " | " | " | " | |

Date Sampled: **08/31/21 01:20**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | | 120 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | | 168 % | 40-150 | | " | " | " | " | S-02 |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/31/21 01:20**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 0.191 | 0.0100 | mg/L | 1 | BEI0039 | 09/02/21 | 09/05/21 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **08/31/21 01:20**

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

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WSP
4600 West 60th Avenue
Arvada CO, 80003

Project: Waag South Pad

Project Number: [none]
Project Manager: Chris Roy

Reported:
09/08/21 12:50

SS01
2108453-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 3.88 | 0.230 | mg/kg dry | 1 | BEI0062 | 09/02/21 | 09/04/21 | EPA 6020B | |
| Barium | 179 | 0.461 | " | " | " | " | " | " | |
| Cadmium | ND | 0.230 | " | " | " | " | " | " | |
| Copper | 6.92 | 0.461 | " | " | " | " | " | " | |
| Lead | 5.72 | 0.230 | " | " | " | " | " | " | |
| Nickel | 7.45 | 0.461 | " | " | " | " | " | " | |
| Selenium | 0.460 | 0.300 | " | " | " | " | " | " | |
| Silver | 0.0316 | 0.0230 | " | " | " | " | " | " | |
| Zinc | 29.8 | 0.461 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/31/21 01:20**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BEI0083 | 09/03/21 | 09/03/21 | EPA 7196A | |

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

Date Sampled: **08/31/21 01:20**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 53.2 | 0.0576 | mg/L dry | 1 | BEI0103 | 09/07/21 | 09/08/21 | EPA 6020B | |
| Magnesium | 4.23 | 0.0576 | " | " | " | " | " | " | |
| Sodium | 2.83 | 0.0576 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **08/31/21 01:20**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.100 | 0.00100 | units | 1 | BEI0157 | 09/08/21 | 09/08/21 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/31/21 01:20**

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

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WSP
4600 West 60th Avenue
Arvada CO, 80003

Project: Waag South Pad

Project Number: [none]
Project Manager: Chris Roy

Reported:
09/08/21 12:50

SS01
2108453-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

| | | | | | | | |
|-----------------|-------------|---|---|---------|----------|----------|-------------|
| % Solids | 86.8 | % | 1 | BEI0109 | 09/07/21 | 09/08/21 | Calculation |
|-----------------|-------------|---|---|---------|----------|----------|-------------|

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/31/21 01:20**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 1.40 | 0.0100 | mmhos/cm | 1 | BEI0106 | 09/07/21 | 09/07/21 | EPA 120.1 | |

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

Date Sampled: **08/31/21 01:20**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.27 | | pH Units | 1 | BEI0105 | 09/07/21 | 09/07/21 | EPA 9045D | |

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WSP
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Arvada CO, 80003

Project: Waag South Pad

Project Number: [none]
Project Manager: Chris Roy

Reported:
09/08/21 12:50

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEH0593 - EPA 5030 Soil MS

Blank (BEH0593-BLK1)

Prepared & Analyzed: 08/31/21

| | | | | | | | | | | | |
|---|--------|--------|-------|--------|--|------|--------|--|--|--|--|
| Benzene | ND | 0.0020 | mg/kg | | | | | | | | |
| Toluene | ND | 0.0050 | " | | | | | | | | |
| Ethylbenzene | ND | 0.0050 | " | | | | | | | | |
| Xylenes (total) | ND | 0.010 | " | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | " | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | " | | | | | | | | |
| Naphthalene | ND | 0.0038 | " | | | | | | | | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | | | | | | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0348 | | " | 0.0400 | | 86.9 | 23-173 | | | | |
| <i>Surrogate: Toluene-d8</i> | 0.0450 | | " | 0.0400 | | 112 | 20-170 | | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0411 | | " | 0.0400 | | 103 | 21-167 | | | | |

LCS (BEH0593-BS1)

Prepared & Analyzed: 08/31/21

| | | | | | | | | | | | |
|---|--------|--------|-------|--------|--|------|--------|--|--|--|--|
| Benzene | 0.0916 | 0.0020 | mg/kg | 0.100 | | 91.6 | 70-130 | | | | |
| Toluene | 0.0816 | 0.0050 | " | 0.100 | | 81.6 | 70-130 | | | | |
| Ethylbenzene | 0.0805 | 0.0050 | " | 0.100 | | 80.5 | 70-130 | | | | |
| m,p-Xylene | 0.164 | 0.010 | " | 0.200 | | 82.0 | 70-130 | | | | |
| o-Xylene | 0.0854 | 0.0050 | " | 0.100 | | 85.4 | 70-130 | | | | |
| 1,2,4-Trimethylbenzene | 0.0827 | 0.0050 | " | 0.100 | | 82.7 | 70-130 | | | | |
| 1,3,5-Trimethylbenzene | 0.0796 | 0.0050 | " | 0.100 | | 79.6 | 70-130 | | | | |
| Naphthalene | 0.0875 | 0.0038 | " | 0.100 | | 87.5 | 70-130 | | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0293 | | " | 0.0400 | | 73.3 | 23-173 | | | | |
| <i>Surrogate: Toluene-d8</i> | 0.0412 | | " | 0.0400 | | 103 | 20-170 | | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0401 | | " | 0.0400 | | 100 | 21-167 | | | | |

Matrix Spike (BEH0593-MS1)

Source: 2108454-01

Prepared & Analyzed: 08/31/21

| | | | | | | | | | | | |
|---|--------|--------|-------|--------|--------|------|--------|--|--|--|--|
| Benzene | 0.0879 | 0.0020 | mg/kg | 0.100 | ND | 87.9 | 70-130 | | | | |
| Toluene | 0.0783 | 0.0050 | " | 0.100 | ND | 78.3 | 70-130 | | | | |
| Ethylbenzene | 0.0980 | 0.0050 | " | 0.100 | ND | 98.0 | 70-130 | | | | |
| m,p-Xylene | 0.198 | 0.010 | " | 0.200 | ND | 99.0 | 70-130 | | | | |
| o-Xylene | 0.0749 | 0.0050 | " | 0.100 | ND | 74.9 | 70-130 | | | | |
| 1,2,4-Trimethylbenzene | 0.0771 | 0.0050 | " | 0.100 | ND | 77.1 | 70-130 | | | | |
| 1,3,5-Trimethylbenzene | 0.0841 | 0.0050 | " | 0.100 | ND | 84.1 | 70-130 | | | | |
| Naphthalene | 0.135 | 0.0038 | " | 0.100 | 0.0413 | 93.4 | 70-130 | | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0325 | | " | 0.0400 | | 81.2 | 23-173 | | | | |
| <i>Surrogate: Toluene-d8</i> | 0.0445 | | " | 0.0400 | | 111 | 20-170 | | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0386 | | " | 0.0400 | | 96.4 | 21-167 | | | | |

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WSP
4600 West 60th Avenue
Arvada CO, 80003

Project: Waag South Pad

Project Number: [none]
Project Manager: Chris Roy

Reported:
09/08/21 12:50

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEH0593 - EPA 5030 Soil MS

| Matrix Spike Dup (BEH0593-MSD1) | Source: 2108454-01 | | | Prepared & Analyzed: 08/31/21 | | | | | | | |
|----------------------------------|--------------------|--------|-------|-------------------------------|--------|------|--------|--------|----|--|--|
| Benzene | 0.0880 | 0.0020 | mg/kg | 0.100 | ND | 88.0 | 70-130 | 0.0341 | 30 | | |
| Toluene | 0.0932 | 0.0050 | " | 0.100 | ND | 93.2 | 70-130 | 17.4 | 30 | | |
| Ethylbenzene | 0.0791 | 0.0050 | " | 0.100 | ND | 79.1 | 70-130 | 21.3 | 30 | | |
| m,p-Xylene | 0.161 | 0.010 | " | 0.200 | ND | 80.6 | 70-130 | 20.5 | 30 | | |
| o-Xylene | 0.0854 | 0.0050 | " | 0.100 | ND | 85.4 | 70-130 | 13.1 | 30 | | |
| 1,2,4-Trimethylbenzene | 0.0899 | 0.0050 | " | 0.100 | ND | 89.9 | 70-130 | 15.4 | 30 | | |
| 1,3,5-Trimethylbenzene | 0.0896 | 0.0050 | " | 0.100 | ND | 89.6 | 70-130 | 6.35 | 30 | | |
| Naphthalene | 0.146 | 0.0038 | " | 0.100 | 0.0413 | 105 | 70-130 | 8.08 | 30 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0368 | | " | 0.0400 | | 92.1 | 23-173 | | | | |
| Surrogate: Toluene-d8 | 0.0455 | | " | 0.0400 | | 114 | 20-170 | | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0417 | | " | 0.0400 | | 104 | 21-167 | | | | |

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WSP
4600 West 60th Avenue
Arvada CO, 80003

Project: Waag South Pad

Project Number: [none]
Project Manager: Chris Roy

Reported:
09/08/21 12:50

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BEH0592 - EPA 3550A

Blank (BEH0592-BLK1)

Prepared & Analyzed: 08/31/21

| | | | | | | | | | | |
|---------------|----|----|-------|--|--|--|--|--|--|--|
| C10-C28 (DRO) | ND | 50 | mg/kg | | | | | | | |
| C28-C36 (ORO) | ND | 50 | " | | | | | | | |

LCS (BEH0592-BS1)

Prepared & Analyzed: 08/31/21

| | | | | | | | | | | |
|---------------|-----|----|-------|-----|-----|--------|--|--|--|--|
| C10-C28 (DRO) | 538 | 50 | mg/kg | 500 | 108 | 70-130 | | | | |
|---------------|-----|----|-------|-----|-----|--------|--|--|--|--|

Matrix Spike (BEH0592-MS1)

Source: 2108454-01

Prepared & Analyzed: 08/31/21

| | | | | | | | | | | |
|---------------|-----|----|-------|-----|-----|-----|--------|--|--|--|
| C10-C28 (DRO) | 947 | 50 | mg/kg | 500 | 386 | 112 | 70-130 | | | |
|---------------|-----|----|-------|-----|-----|-----|--------|--|--|--|

Matrix Spike Dup (BEH0592-MSD1)

Source: 2108454-01

Prepared & Analyzed: 08/31/21

| | | | | | | | | | | |
|---------------|-----|----|-------|-----|-----|-----|--------|-------|----|--|
| C10-C28 (DRO) | 951 | 50 | mg/kg | 500 | 386 | 113 | 70-130 | 0.393 | 20 | |
|---------------|-----|----|-------|-----|-----|-----|--------|-------|----|--|

Summit Scientific

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



WSP
4600 West 60th Avenue
Arvada CO, 80003

Project: Waag South Pad

Project Number: [none]
Project Manager: Chris Roy

Reported:
09/08/21 12:50

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BEI0005 - EPA 5030 Soil MS

Blank (BEI0005-BLK1)

Prepared: 09/01/21 Analyzed: 09/03/21

| | | | | | | | | | | |
|---|---------------|---------|-------|---------------|--|-------------|---------------|--|--|--|
| Acenaphthene | ND | 0.00500 | mg/kg | | | | | | | |
| Anthracene | ND | 0.00500 | " | | | | | | | |
| Benzo (a) anthracene | ND | 0.00500 | " | | | | | | | |
| Benzo (a) pyrene | ND | 0.00500 | " | | | | | | | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | | | | | | | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | | | | | | | |
| Chrysene | ND | 0.00500 | " | | | | | | | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | | | | | | | |
| Fluoranthene | ND | 0.00500 | " | | | | | | | |
| Fluorene | ND | 0.00500 | " | | | | | | | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | | | | | | | |
| Pyrene | ND | 0.00500 | " | | | | | | | |
| 1-Methylnaphthalene | ND | 0.00500 | " | | | | | | | |
| 2-Methylnaphthalene | ND | 0.00500 | " | | | | | | | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0240</i> | | " | <i>0.0333</i> | | <i>72.1</i> | <i>40-150</i> | | | |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0207</i> | | " | <i>0.0333</i> | | <i>62.2</i> | <i>40-150</i> | | | |

LCS (BEI0005-BS1)

Prepared: 09/01/21 Analyzed: 09/03/21

| | | | | | | | | | | |
|---|---------------|---------|-------|---------------|--|-------------|---------------|--|--|--|
| Acenaphthene | 0.0191 | 0.00500 | mg/kg | 0.0333 | | 57.4 | 31-137 | | | |
| Anthracene | 0.0197 | 0.00500 | " | 0.0333 | | 59.1 | 30-120 | | | |
| Benzo (a) anthracene | 0.0206 | 0.00500 | " | 0.0333 | | 61.7 | 30-120 | | | |
| Benzo (a) pyrene | 0.0197 | 0.00500 | " | 0.0333 | | 59.0 | 30-120 | | | |
| Benzo (b) fluoranthene | 0.0218 | 0.00500 | " | 0.0333 | | 65.4 | 30-120 | | | |
| Benzo (k) fluoranthene | 0.0213 | 0.00500 | " | 0.0333 | | 63.8 | 30-120 | | | |
| Chrysene | 0.0189 | 0.00500 | " | 0.0333 | | 56.8 | 30-120 | | | |
| Dibenz (a,h) anthracene | 0.0199 | 0.00500 | " | 0.0333 | | 59.8 | 30-120 | | | |
| Fluoranthene | 0.0180 | 0.00500 | " | 0.0333 | | 54.0 | 30-120 | | | |
| Fluorene | 0.0203 | 0.00500 | " | 0.0333 | | 60.8 | 30-120 | | | |
| Indeno (1,2,3-cd) pyrene | 0.0219 | 0.00500 | " | 0.0333 | | 65.7 | 30-120 | | | |
| Pyrene | 0.0174 | 0.00500 | " | 0.0333 | | 52.1 | 35-142 | | | |
| 1-Methylnaphthalene | 0.0209 | 0.00500 | " | 0.0333 | | 62.6 | 35-142 | | | |
| 2-Methylnaphthalene | 0.0166 | 0.00500 | " | 0.0333 | | 49.7 | 35-142 | | | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0196</i> | | " | <i>0.0333</i> | | <i>58.8</i> | <i>40-150</i> | | | |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0178</i> | | " | <i>0.0333</i> | | <i>53.5</i> | <i>40-150</i> | | | |

Summit Scientific

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WSP
4600 West 60th Avenue
Arvada CO, 80003

Project: Waag South Pad

Project Number: [none]
Project Manager: Chris Roy

Reported:
09/08/21 12:50

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BEI0005 - EPA 5030 Soil MS

| Matrix Spike (BEI0005-MS1) | Source: 2108460-01 | | | Prepared: 09/01/21 Analyzed: 09/03/21 | | | | | |
|---|--------------------|---------|----------|---------------------------------------|----|-------------|---------------|--|--|
| Acenaphthene | 0.0203 | 0.00500 | mg/kg | 0.0333 | ND | 61.0 | 31-137 | | |
| Anthracene | 0.0211 | 0.00500 | " | 0.0333 | ND | 63.3 | 30-120 | | |
| Benzo (a) anthracene | 0.0244 | 0.00500 | " | 0.0333 | ND | 73.2 | 30-120 | | |
| Benzo (a) pyrene | 0.0226 | 0.00500 | " | 0.0333 | ND | 67.9 | 30-120 | | |
| Benzo (b) fluoranthene | 0.0246 | 0.00500 | " | 0.0333 | ND | 73.9 | 30-120 | | |
| Benzo (k) fluoranthene | 0.0223 | 0.00500 | " | 0.0333 | ND | 66.9 | 30-120 | | |
| Chrysene | 0.0224 | 0.00500 | " | 0.0333 | ND | 67.1 | 30-120 | | |
| Dibenz (a,h) anthracene | 0.0235 | 0.00500 | " | 0.0333 | ND | 70.6 | 30-120 | | |
| Fluoranthene | 0.0189 | 0.00500 | " | 0.0333 | ND | 56.7 | 30-120 | | |
| Fluorene | 0.0217 | 0.00500 | " | 0.0333 | ND | 65.2 | 30-120 | | |
| Indeno (1,2,3-cd) pyrene | 0.0248 | 0.00500 | " | 0.0333 | ND | 74.5 | 30-120 | | |
| Pyrene | 0.0197 | 0.00500 | " | 0.0333 | ND | 59.2 | 35-142 | | |
| 1-Methylnaphthalene | 0.0207 | 0.00500 | " | 0.0333 | ND | 62.2 | 15-130 | | |
| 2-Methylnaphthalene | 0.0152 | 0.00500 | " | 0.0333 | ND | 45.6 | 15-130 | | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0184</i> | | <i>"</i> | <i>0.0333</i> | | <i>55.3</i> | <i>40-150</i> | | |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0188</i> | | <i>"</i> | <i>0.0333</i> | | <i>56.5</i> | <i>40-150</i> | | |

| Matrix Spike Dup (BEI0005-MSD1) | Source: 2108460-01 | | | Prepared: 09/01/21 Analyzed: 09/03/21 | | | | | |
|---|--------------------|---------|----------|---------------------------------------|----|-------------|---------------|------|----|
| Acenaphthene | 0.0192 | 0.00500 | mg/kg | 0.0333 | ND | 57.7 | 31-137 | 5.63 | 30 |
| Anthracene | 0.0200 | 0.00500 | " | 0.0333 | ND | 60.1 | 30-120 | 5.16 | 30 |
| Benzo (a) anthracene | 0.0218 | 0.00500 | " | 0.0333 | ND | 65.4 | 30-120 | 11.4 | 30 |
| Benzo (a) pyrene | 0.0204 | 0.00500 | " | 0.0333 | ND | 61.3 | 30-120 | 10.3 | 30 |
| Benzo (b) fluoranthene | 0.0231 | 0.00500 | " | 0.0333 | ND | 69.2 | 30-120 | 6.62 | 30 |
| Benzo (k) fluoranthene | 0.0210 | 0.00500 | " | 0.0333 | ND | 63.0 | 30-120 | 5.94 | 30 |
| Chrysene | 0.0200 | 0.00500 | " | 0.0333 | ND | 59.9 | 30-120 | 11.3 | 30 |
| Dibenz (a,h) anthracene | 0.0214 | 0.00500 | " | 0.0333 | ND | 64.1 | 30-120 | 9.68 | 30 |
| Fluoranthene | 0.0178 | 0.00500 | " | 0.0333 | ND | 53.5 | 30-120 | 5.80 | 30 |
| Fluorene | 0.0204 | 0.00500 | " | 0.0333 | ND | 61.1 | 30-120 | 6.46 | 30 |
| Indeno (1,2,3-cd) pyrene | 0.0226 | 0.00500 | " | 0.0333 | ND | 67.9 | 30-120 | 9.29 | 30 |
| Pyrene | 0.0179 | 0.00500 | " | 0.0333 | ND | 53.6 | 35-142 | 9.92 | 30 |
| 1-Methylnaphthalene | 0.0187 | 0.00500 | " | 0.0333 | ND | 56.2 | 15-130 | 10.1 | 50 |
| 2-Methylnaphthalene | 0.0137 | 0.00500 | " | 0.0333 | ND | 41.2 | 15-130 | 10.0 | 50 |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0181</i> | | <i>"</i> | <i>0.0333</i> | | <i>54.3</i> | <i>40-150</i> | | |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0181</i> | | <i>"</i> | <i>0.0333</i> | | <i>54.3</i> | <i>40-150</i> | | |

Summit Scientific

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WSP
4600 West 60th Avenue
Arvada CO, 80003

Project: Waag South Pad

Project Number: [none]
Project Manager: Chris Roy

Reported:
09/08/21 12:50

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

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

Batch BEI0039 - EPA 3050B

Blank (BEI0039-BLK1)

Prepared: 09/02/21 Analyzed: 09/05/21

Boron ND 0.0100 mg/L

LCS (BEI0039-BS1)

Prepared: 09/02/21 Analyzed: 09/05/21

Boron 5.08 0.0100 mg/L 5.00 102 80-120

Duplicate (BEI0039-DUP1)

Source: 2108436-01

Prepared: 09/02/21 Analyzed: 09/05/21

Boron 0.0687 0.0100 mg/L 0.0824 18.1 20

Matrix Spike (BEI0039-MS1)

Source: 2108436-01

Prepared: 09/02/21 Analyzed: 09/05/21

Boron 5.04 0.0100 mg/L 5.00 0.0824 99.2 75-125

Matrix Spike Dup (BEI0039-MSD1)

Source: 2108436-01

Prepared: 09/02/21 Analyzed: 09/05/21

Boron 5.28 0.0100 mg/L 5.00 0.0824 104 75-125 4.70 25

Summit Scientific

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WSP
4600 West 60th Avenue
Arvada CO, 80003

Project: Waag South Pad

Project Number: [none]
Project Manager: Chris Roy

Reported:
09/08/21 12:50

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BEI0062 - EPA 3050B

Blank (BEI0062-BLK1)

Prepared: 09/02/21 Analyzed: 09/04/21

| | | | | | | | | | | |
|----------|----|--------|-----------|--|--|--|--|--|--|--|
| 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 | " | | | | | | | |
| Selenium | ND | 0.260 | " | | | | | | | |
| Silver | ND | 0.0200 | " | | | | | | | |
| Zinc | ND | 0.400 | " | | | | | | | |

LCS (BEI0062-BS1)

Prepared: 09/02/21 Analyzed: 09/04/21

| | | | | | | |
|----------|------|--------|-----------|------|-----|--------|
| Arsenic | 45.3 | 0.200 | mg/kg wet | 40.0 | 113 | 80-120 |
| Barium | 46.2 | 0.400 | " | 40.0 | 116 | 80-120 |
| Cadmium | 2.07 | 0.200 | " | 2.00 | 103 | 80-120 |
| Copper | 47.6 | 0.400 | " | 40.0 | 119 | 80-120 |
| Lead | 23.0 | 0.200 | " | 20.0 | 115 | 80-120 |
| Nickel | 47.2 | 0.400 | " | 40.0 | 118 | 80-120 |
| Selenium | 4.66 | 0.260 | " | 4.00 | 116 | 80-120 |
| Silver | 2.29 | 0.0200 | " | 2.00 | 114 | 80-120 |
| Zinc | 47.3 | 0.400 | " | 40.0 | 118 | 80-120 |

Duplicate (BEI0062-DUP1)

Source: 2108207-04

Prepared: 09/02/21 Analyzed: 09/04/21

| | | | | | | |
|----------|--------|--------|-----------|--------|-------|----|
| Arsenic | 4.70 | 0.229 | mg/kg dry | 4.41 | 6.35 | 20 |
| Barium | 97.6 | 0.459 | " | 81.2 | 18.4 | 20 |
| Cadmium | 0.111 | 0.229 | " | 0.101 | 9.14 | 20 |
| Copper | 7.12 | 0.459 | " | 7.21 | 1.21 | 20 |
| Lead | 6.54 | 0.229 | " | 7.61 | 15.1 | 20 |
| Nickel | 8.68 | 0.459 | " | 8.64 | 0.454 | 20 |
| Selenium | 0.552 | 0.298 | " | 0.639 | 14.5 | 20 |
| Silver | 0.0563 | 0.0229 | " | 0.0595 | 5.59 | 20 |
| Zinc | 31.4 | 0.459 | " | 33.9 | 7.42 | 20 |

Summit Scientific

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WSP
4600 West 60th Avenue
Arvada CO, 80003

Project: Waag South Pad

Project Number: [none]
Project Manager: Chris Roy

Reported:
09/08/21 12:50

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BEI0062 - EPA 3050B

Matrix Spike (BEI0062-MS1)

Source: 2108207-04

Prepared: 09/02/21 Analyzed: 09/04/21

| | | | | | | | | | |
|----------|------|--------|-----------|------|--------|------|--------|--|--|
| Arsenic | 60.4 | 0.229 | mg/kg dry | 45.9 | 4.41 | 122 | 75-125 | | |
| Barium | 136 | 0.459 | " | 45.9 | 81.2 | 119 | 75-125 | | |
| Cadmium | 2.75 | 0.229 | " | 2.29 | 0.101 | 115 | 75-125 | | |
| Copper | 54.9 | 0.459 | " | 45.9 | 7.21 | 104 | 75-125 | | |
| Lead | 29.6 | 0.229 | " | 22.9 | 7.61 | 95.8 | 75-125 | | |
| Nickel | 56.9 | 0.459 | " | 45.9 | 8.64 | 105 | 75-125 | | |
| Selenium | 4.97 | 0.298 | " | 4.59 | 0.639 | 94.3 | 75-125 | | |
| Silver | 2.49 | 0.0229 | " | 2.29 | 0.0595 | 106 | 75-125 | | |
| Zinc | 89.2 | 0.459 | " | 45.9 | 33.9 | 121 | 75-125 | | |

Matrix Spike Dup (BEI0062-MSD1)

Source: 2108207-04

Prepared: 09/02/21 Analyzed: 09/04/21

| | | | | | | | | | |
|----------|------|--------|-----------|------|--------|------|--------|-------|----|
| Arsenic | 55.0 | 0.229 | mg/kg dry | 45.9 | 4.41 | 110 | 75-125 | 9.33 | 25 |
| Barium | 127 | 0.459 | " | 45.9 | 81.2 | 101 | 75-125 | 6.40 | 25 |
| Cadmium | 2.77 | 0.229 | " | 2.29 | 0.101 | 116 | 75-125 | 0.747 | 25 |
| Copper | 63.4 | 0.459 | " | 45.9 | 7.21 | 123 | 75-125 | 14.5 | 25 |
| Lead | 34.7 | 0.229 | " | 22.9 | 7.61 | 118 | 75-125 | 15.8 | 25 |
| Nickel | 65.5 | 0.459 | " | 45.9 | 8.64 | 124 | 75-125 | 14.1 | 25 |
| Selenium | 5.86 | 0.298 | " | 4.59 | 0.639 | 114 | 75-125 | 16.5 | 25 |
| Silver | 2.45 | 0.0229 | " | 2.29 | 0.0595 | 104 | 75-125 | 1.65 | 25 |
| Zinc | 71.5 | 0.459 | " | 45.9 | 33.9 | 82.1 | 75-125 | 22.0 | 25 |

Summit Scientific

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WSP
4600 West 60th Avenue
Arvada CO, 80003

Project: Waag South Pad

Project Number: [none]
Project Manager: Chris Roy

Reported:
09/08/21 12:50

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BEI0083 - 3060A Mod

Blank (BEI0083-BLK1)

Prepared & Analyzed: 09/03/21

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BEI0083-BS1)

Prepared & Analyzed: 09/03/21

Chromium, Hexavalent 27.0 0.30 mg/kg wet 25.0 108 80-120

Duplicate (BEI0083-DUP1)

Source: 2108442-01

Prepared & Analyzed: 09/03/21

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BEI0083-MS1)

Source: 2108442-01

Prepared & Analyzed: 09/03/21

Chromium, Hexavalent 31.4 0.30 mg/kg dry 25.7 ND 122 75-125

Matrix Spike Dup (BEI0083-MSD1)

Source: 2108442-01

Prepared & Analyzed: 09/03/21

Chromium, Hexavalent 31.9 0.30 mg/kg dry 25.7 ND 124 75-125 1.63 20

Summit Scientific

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





WSP
4600 West 60th Avenue
Arvada CO, 80003

Project: Waag South Pad

Project Number: [none]
Project Manager: Chris Roy

Reported:
09/08/21 12:50

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

Summit Scientific

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

Batch BEI0103 - General Preparation

Blank (BEI0103-BLK1)

Prepared: 09/07/21 Analyzed: 09/08/21

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

LCS (BEI0103-BS1)

Prepared: 09/07/21 Analyzed: 09/08/21

| | | | | | | | | | | |
|-----------|------|--------|----------|------|--|-----|--------|--|--|--|
| Calcium | 5.53 | 0.0500 | mg/L wet | 5.00 | | 111 | 70-130 | | | |
| Magnesium | 5.25 | 0.0500 | " | 5.00 | | 105 | 70-130 | | | |
| Sodium | 5.16 | 0.0500 | " | 5.00 | | 103 | 70-130 | | | |

Summit Scientific

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WSP
 4600 West 60th Avenue
 Arvada CO, 80003

Project: Waag South Pad

Project Number: [none]
 Project Manager: Chris Roy

Reported:
 09/08/21 12:50

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

Summit Scientific

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

Batch BEI0109 - General Preparation

| Duplicate (BEI0109-DUP1) | Source: 2108436-01 | | | Prepared: 09/07/21 Analyzed: 09/08/21 | |
|--------------------------|--------------------|--|---|---------------------------------------|----------|
| % Solids | 95.7 | | % | 95.4 | 0.339 20 |

Summit Scientific

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



WSP
4600 West 60th Avenue
Arvada CO, 80003

Project: Waag South Pad

Project Number: [none]
Project Manager: Chris Roy

Reported:
09/08/21 12:50

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

Summit Scientific

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

Batch BEI0106 - General Preparation

Blank (BEI0106-BLK1)

Prepared & Analyzed: 09/07/21

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BEI0106-BS1)

Prepared & Analyzed: 09/07/21

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 103 90-110

Duplicate (BEI0106-DUP1)

Source: 2108453-01

Prepared & Analyzed: 09/07/21

Specific Conductance (EC) 1.39 0.0100 mmhos/cm 1.40 0.359 20

Summit Scientific

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



WSP
 4600 West 60th Avenue
 Arvada CO, 80003

Project: Waag South Pad

Project Number: [none]
 Project Manager: Chris Roy

Reported:
 09/08/21 12:50

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

Summit Scientific

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

Batch BEI0105 - General Preparation

LCS (BEI0105-BS1)

Prepared & Analyzed: 09/07/21

pH 9.14 pH Units 9.21 99.2 95-105

Duplicate (BEI0105-DUP1)

Source: 2108453-01

Prepared & Analyzed: 09/07/21

pH 8.28 pH Units 8.27 0.121 20

Summit Scientific

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



WSP
4600 West 60th Avenue
Arvada CO, 80003

Project: Waag South Pad

Project Number: [none]
Project Manager: Chris Roy

Reported:
09/08/21 12:50

Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- 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