

ORIGINS LABORATORY

Quandary Consultants

Mike Dinkel

2252 Emerson St.

Denver CO 80205

September 09, 2024

Project Name - REI H9-32D&33D&UPRC 9-12J5 Project Number - [none]

Attached are your analytical results for REI H9-32D&33D&UPRC 9-12J5 received by Origins Laboratory July 18, 2024. This project is associated with Origins project number Y407478-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

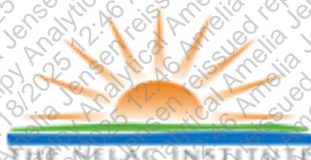
The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory
303.433.1322
projectmanager@originslab.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645



Quandary Consultants
2252 Emerson St.
Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: REI H9-32D&33D&UPRC 9-12J5

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-------------|---------------|--------|--------------------|------------------|
| FL-B11@16' | Y407478-01 | Soil | July 2, 2024 9:00 | 07/18/2024 12:13 |
| FL-E09@12' | Y407478-02 | Soil | July 2, 2024 9:35 | 07/18/2024 12:13 |
| TP-02@3' | Y407478-03 | Soil | July 2, 2024 9:54 | 07/18/2024 12:13 |
| TP-02@6' | Y407478-04 | Soil | July 2, 2024 9:57 | 07/18/2024 12:13 |
| TP-02@12' | Y407478-05 | Soil | July 2, 2024 10:02 | 07/18/2024 12:13 |
| TP-02@18' | Y407478-06 | Soil | July 2, 2024 10:10 | 07/18/2024 12:13 |
| TP-01@3' | Y407478-07 | Soil | July 2, 2024 10:45 | 07/18/2024 12:13 |
| TP-01@6' | Y407478-08 | Soil | July 2, 2024 10:47 | 07/18/2024 12:13 |
| TP-01@12' | Y407478-09 | Soil | July 2, 2024 10:51 | 07/18/2024 12:13 |
| TP-01@18' | Y407478-10 | Soil | July 2, 2024 10:59 | 07/18/2024 12:13 |
| FL-BG10@3' | Y407478-11 | Soil | July 2, 2024 11:48 | 07/18/2024 12:13 |
| FL-BG10@6' | Y407478-12 | Soil | July 2, 2024 11:52 | 07/18/2024 12:13 |
| FL-BG10@12' | Y407478-13 | Soil | July 2, 2024 11:56 | 07/18/2024 12:13 |
| FL-BG10@18' | Y407478-14 | Soil | July 2, 2024 12:02 | 07/18/2024 12:13 |

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Mike Dinkel
Project Number: [none]
Project: REI H9-32D&33D&UPRC 9-12J5

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-------------|---------------|--------|--------------------|------------------|
| FL-BG11@3' | Y407478-15 | Soil | July 2, 2024 11:29 | 07/18/2024 12:13 |
| FL-BG11@6' | Y407478-16 | Soil | July 2, 2024 11:33 | 07/18/2024 12:13 |
| FL-BG11@12' | Y407478-17 | Soil | July 2, 2024 11:37 | 07/18/2024 12:13 |
| FL-BG11@18' | Y407478-18 | Soil | July 2, 2024 11:43 | 07/18/2024 12:13 |
| FL-BG12@3' | Y407478-19 | Soil | July 2, 2024 11:05 | 07/18/2024 12:13 |
| FL-BG12@6' | Y407478-20 | Soil | July 2, 2024 11:08 | 07/18/2024 12:13 |
| FL-BG12@12' | Y407478-21 | Soil | July 2, 2024 11:15 | 07/18/2024 12:13 |
| FL-BG12@18' | Y407478-22 | Soil | July 2, 2024 11:23 | 07/18/2024 12:13 |
| FL-BG13@3' | Y407478-23 | Soil | July 2, 2024 12:26 | 07/18/2024 12:13 |
| FL-BG13@6' | Y407478-24 | Soil | July 2, 2024 12:28 | 07/18/2024 12:13 |
| FL-BG13@12' | Y407478-25 | Soil | July 2, 2024 12:34 | 07/18/2024 12:13 |
| FL-BG13@18' | Y407478-26 | Soil | July 2, 2024 12:37 | 07/18/2024 12:13 |
| FL-BG14@3' | Y407478-27 | Soil | July 2, 2024 12:10 | 07/18/2024 12:13 |
| FL-BG14@6' | Y407478-28 | Soil | July 2, 2024 12:13 | 07/18/2024 12:13 |

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 Project: REI H9-32D&33D&UPRC 9-12J5

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-------------|---------------|--------|--------------------|------------------|
| FL-BG14@12' | Y407478-29 | Soil | July 2, 2024 12:16 | 07/18/2024 12:13 |
| FL-BG14@18' | Y407478-30 | Soil | July 2, 2024 12:22 | 07/18/2024 12:13 |

Chain of Custody Modification Request

On 7/19/2024, Ben Kraft from Quandary contacted Jordan Bynon via email regarding Y407479 requesting that N01@3, N01@6, S01@3, S01@6, E01@3, E01@6, W01@3, W01@6 be removed from the COC. Requested modifications to the chain of custody were made by Jordan Bynon on 7/19/2024.

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 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

Page 2 of 3

ORIGINS WORK ORDER: **4407478**

Client: **Levo-Magee Oil & Gas, Dushore, LP**
 Address: **501 N. DIVISION ST. PLATTEVILLE, CO 80651**

Project Manager: **MIKE DINKEL**
 Project Name: **REI H9-32D, 33D, UPRC 9-12J5**
 Project Number:

Key: W=Water GW=Groundwater SW=Surface Water WW=Waste Water L=Liquid
 S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | JND=Unpores | HCL= Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

Telephone Number: **(763) 691-7188** SAMPLES@QUANDARYCONSULTANTS.COM
 Email Address: **MPDINKEL@QUANDARYCONSULTANTS.COM** Invoice/Billing Info: **ERIK MICHELSON**

Collected By: **RL**
 Served By: **ERIK MICHELSON**

| Sample ID | Date Sampled | Time Sampled | # of Containers | Matrix | Preservative | Analysis | Comments |
|------------|--------------|--------------|-----------------|--------|--------------|------------|----------|
| FL-BG10E3 | 7/20/24 | 11:18 | 2 | S | - | Metals (P) | |
| FL-BG10E6 | | 11:52 | 2 | S | - | | |
| FL-BG10E12 | | 11:56 | 2 | S | - | | |
| FL-BG10E18 | | 12:02 | 2 | S | - | | |
| FL-BG11E3 | | 11:29 | 2 | S | - | | |
| FL-BG11E6 | | 11:33 | 2 | S | - | | |
| FL-BG11E12 | | 11:37 | 2 | S | - | | |
| FL-BG11E18 | | 11:43 | 2 | S | - | | |
| FL-BG12E3 | | 11:05 | 2 | S | - | | |
| FL-BG12E6 | | 11:08 | 2 | S | - | | |

Relinquished By: **BOB VAAT** Date: **7/10/24** Time: **12:13**

Received By: **[Signature]** Date: **7/19/24** Time: **12:13**

Relinquished By: **[Signature]** Date: **7/19/24** Time: **12:13**

Received By: **[Signature]** Date: **7/19/24** Time: **12:13**

Turnaround Time: SAME DAY 24 HR 48 HR 72 HR Standard

Temp Received: **7°C** Received On Ice? Yes No

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 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5


Origins Laboratory F-012207-01-R1
 Sample Receipt Checklist Effective Date: 01/09/12

Origins Work Order: 4407478 Client: Quandary
 Checklist Completed by: EHJ Client Project ID: REL
 Date/time completed: 7/18/24 Shipped Via: HO
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1/25 °C / _____ °C / _____ °C (Describe) _____ °C
 Thermometer ID: 1005

| Requirement Description | Yes | No | N/A | Comments (if any) |
|---|---|-------------------------------------|-----|-------------------|
| If samples require cooling, was the temperature between 0°C to < 6°C ⁽¹⁾ ? | | <input checked="" type="checkbox"/> | | |
| Is there ice present (document if blue ice is used) | | <input checked="" type="checkbox"/> | | |
| Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact) | | <input checked="" type="checkbox"/> | | |
| Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact) | | <input checked="" type="checkbox"/> | | |
| Were all samples received intact ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Was adequate sample volume provided ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Are short holding time analytes or samples with HTS due within 48 hours present ⁽¹⁾ ? | | <input checked="" type="checkbox"/> | | |
| Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative. | | <input checked="" type="checkbox"/> | | |
| Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analytes in order to insure sample integrity) (pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH) | | <input checked="" type="checkbox"/> | | |
| Additional Comments (if any): | <u>ok to run Cr VI out of temp per clients email on 7/19 JB</u> | | | |

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to be in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) JB Date/Time Reviewed 7/19/24

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 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

FL-B11@16'
 7/2/2024 9:00:00AM

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

Origins Laboratory
 Y407478-01 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | |
|-------|-------|-------|------|---|---------|------------|------------|
| Boron | 0.233 | 0.101 | mg/L | 1 | B4G2207 | 07/22/2024 | 07/23/2024 |
|-------|-------|-------|------|---|---------|------------|------------|

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|------|-------|-------|----|--------|------------|------------|
| Calcium | 1.70 | 0.499 | meq/L | 10 | [CALC] | 07/22/2024 | 07/24/2024 |
| Magnesium | ND | 0.823 | " | " | " | " | " |
| Sodium | 4.43 | 0.435 | " | " | " | " | " |

pH in Soil by 9045D

| | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|
| pH | 8.36 | | pH Units | 1 | B4G2220 | 07/22/2024 | 07/23/2024 |
|----|------|--|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|
| SAR | 4.11 | 0.0100 | SAR | 1 | B4G2214 | 07/22/2024 | 07/24/2024 |
|-----|------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 0.715 | 0.00500 | mmhos/cm | 1 | B4G2220 | 07/22/2024 | 07/23/2024 |
|---------------------------|-------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

| | | | | | | | |
|---------|-------|--------|-------|----|---------|------------|------------|
| Arsenic | 6.53 | 0.270 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 |
| Barium | 95.5 | 9.30 | " | " | " | " | " |
| Cadmium | 0.173 | 0.0930 | " | " | " | " | " |
| Copper | ND | 9.30 | " | " | " | " | " |

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Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: REI H9-32D&33D&UPRC 9-12J5

FL-B11@16'
7/2/2024 9:00:00AM

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

Origins Laboratory
Y407478-01 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|----------|------|--|--------|-------|----|---------|------------|------------|--|
| Lead | 11.0 | | 0.930 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 | |
| Nickel | 16.4 | | 0.930 | " | " | " | " | " | |
| Selenium | ND | | 0.242 | " | " | " | " | " | |
| Silver | ND | | 0.0930 | " | " | " | " | " | |
| Zinc | 36.3 | | 34.4 | " | " | " | " | " | |

Total Metals by 7196A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.156 | 0.389 | mg/kg dry | 1 | 2648402 | 07/31/2024 | 08/01/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

FL-E09@12'

7/2/2024 9:35:00AM

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

Origins Laboratory
 Y407478-02 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | |
|-------|-------|-------|------|---|---------|------------|------------|
| Boron | 0.202 | 0.101 | mg/L | 1 | B4G2207 | 07/22/2024 | 07/23/2024 |
|-------|-------|-------|------|---|---------|------------|------------|

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|-------|-------|-------|----|--------|------------|------------|
| Calcium | 0.879 | 0.499 | meq/L | 10 | [CALC] | 07/22/2024 | 07/24/2024 |
| Magnesium | ND | 0.823 | " | " | " | " | " |
| Sodium | 3.23 | 0.435 | " | " | " | " | " |

pH in Soil by 9045D

| | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|
| pH | 8.48 | | pH Units | 1 | B4G2220 | 07/22/2024 | 07/23/2024 |
|----|------|--|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|
| SAR | 4.14 | 0.0100 | SAR | 1 | B4G2214 | 07/22/2024 | 07/24/2024 |
|-----|------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 0.486 | 0.00500 | mmhos/cm | 1 | B4G2220 | 07/22/2024 | 07/23/2024 |
|---------------------------|-------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

| | | | | | | | |
|---------|------|--------|-------|----|---------|------------|------------|
| Arsenic | 4.23 | 0.275 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 |
| Barium | 74.9 | 9.47 | " | " | " | " | " |
| Cadmium | ND | 0.0947 | " | " | " | " | " |
| Copper | ND | 9.47 | " | " | " | " | " |

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Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: REI H9-32D&33D&UPRC 9-12J5

FL-E09@12'
7/2/2024 9:35:00AM

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

Origins Laboratory Y407478-02 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|----------|------|--|--------|-------|----|---------|------------|------------|---|
| Lead | 5.23 | | 0.947 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 | |
| Nickel | 36.2 | | 0.947 | " | " | " | " | " | " |
| Selenium | ND | | 0.246 | " | " | " | " | " | " |
| Silver | ND | | 0.0947 | " | " | " | " | " | " |
| Zinc | ND | | 35.0 | " | " | " | " | " | " |

Total Metals by 7196A

| | | | | | | | | | |
|---------------------|-------|--------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | 0.128 | 0.0915 | 0.229 | mg/kg dry | 1 | 2648402 | 07/31/2024 | 08/01/2024 | J |
|---------------------|-------|--------|-------|-----------|---|---------|------------|------------|---|

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Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

TP-02@3'

7/2/2024 9:54:00AM

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

Origins Laboratory
 Y407478-03 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | |
|-------|-------|--------|------|---|---------|------------|------------|
| Boron | 0.431 | 0.0994 | mg/L | 1 | B4G2207 | 07/22/2024 | 07/23/2024 |
|-------|-------|--------|------|---|---------|------------|------------|

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|-------|-------|-------|----|--------|------------|------------|
| Calcium | 2.24 | 0.499 | meq/L | 10 | [CALC] | 07/22/2024 | 07/24/2024 |
| Magnesium | ND | 0.823 | " | " | " | " | " |
| Sodium | 0.968 | 0.435 | " | " | " | " | " |

pH in Soil by 9045D

| | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|
| pH | 8.28 | | pH Units | 1 | B4G2220 | 07/22/2024 | 07/23/2024 |
|----|------|--|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|-------|--------|-----|---|---------|------------|------------|
| SAR | 0.788 | 0.0100 | SAR | 1 | B4G2214 | 07/22/2024 | 07/24/2024 |
|-----|-------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 0.365 | 0.00500 | mmhos/cm | 1 | B4G2220 | 07/22/2024 | 07/23/2024 |
|---------------------------|-------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

| | | | | | | | |
|---------|-------|--------|-------|----|---------|------------|------------|
| Arsenic | 4.16 | 0.257 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 |
| Barium | 170 | 8.86 | " | " | " | " | " |
| Cadmium | 0.160 | 0.0886 | " | " | " | " | " |
| Copper | ND | 8.86 | " | " | " | " | " |

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Mike Dinkel
Project Number: [none]
Project: REI H9-32D&33D&UPRC 9-12J5

TP-02@3'

7/2/2024 9:54:00AM

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

Origins Laboratory Y407478-03 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | |
|----------|------|--------|-------|----|---------|------------|------------|---|
| Lead | 10.3 | 0.886 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 | |
| Nickel | 12.0 | 0.886 | " | " | " | " | " | " |
| Selenium | ND | 0.230 | " | " | " | " | " | " |
| Silver | ND | 0.0886 | " | " | " | " | " | " |
| Zinc | 37.8 | 32.8 | " | " | " | " | " | " |

Total Metals by 7196 A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.106 | 0.264 | mg/kg dry | 1 | 2648400 | 07/31/2024 | 08/01/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

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Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

TP-02@6'
7/2/2024 9:57:00AM

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

Origins Laboratory
Y407478-04 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | | |
|-------|-------|--------|------|---|---------|------------|------------|--|
| Boron | 0.651 | 0.0994 | mg/L | 1 | B4G2207 | 07/22/2024 | 07/23/2024 | |
|-------|-------|--------|------|---|---------|------------|------------|--|

Metals by Saturated Paste by EPA 6010

| | | | | | | | | |
|-----------|------|-------|-------|----|--------|------------|------------|--|
| Calcium | 18.9 | 0.499 | meq/L | 10 | [CALC] | 07/22/2024 | 07/24/2024 | |
| Magnesium | 6.28 | 0.823 | " | " | " | " | " | |
| Sodium | 11.2 | 0.435 | " | " | " | " | " | |

pH in Soil by 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 7.78 | | pH Units | 1 | B4G2220 | 07/22/2024 | 07/23/2024 | |
|----|------|--|----------|---|---------|------------|------------|--|

SAR by 20B Saturated Paste

| | | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|--|
| SAR | 3.17 | 0.0100 | SAR | 1 | B4G2214 | 07/22/2024 | 07/24/2024 | |
|-----|------|--------|-----|---|---------|------------|------------|--|

Specific Conductance Mod. 9050A

| | | | | | | | | |
|---------------------------|------|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 2.76 | 0.00500 | mmhos/cm | 1 | B4G2220 | 07/22/2024 | 07/23/2024 | |
|---------------------------|------|---------|----------|---|---------|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | |
|---------|-------|--------|-------|----|---------|------------|------------|--|
| Arsenic | 5.81 | 0.277 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 | |
| Barium | 190 | 9.56 | " | " | " | " | " | |
| Cadmium | 0.250 | 0.0956 | " | " | " | " | " | |
| Copper | 12.1 | 9.56 | " | " | " | " | " | |

Origins Laboratory

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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

TP-02@6'
7/2/2024 9:57:00AM

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


Origins Laboratory
Y407478-04 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|----------|-------|--------|--------|-------|----|---------|------------|------------|---|
| Lead | 13.1 | 0.956 | 0.956 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 | |
| Nickel | 16.4 | 0.956 | 0.956 | " | " | " | " | " | " |
| Selenium | 0.339 | 0.249 | 0.249 | " | " | " | " | " | " |
| Silver | ND | 0.0956 | 0.0956 | " | " | " | " | " | " |
| Zinc | 48.8 | 35.4 | 35.4 | " | " | " | " | " | " |

Total Metals by 7196 A

| | | | | | | | | | |
|---------------------|----|--------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.0864 | 0.216 | mg/kg dry | 1 | 2648400 | 07/31/2024 | 08/01/2024 | U |
|---------------------|----|--------|-------|-----------|---|---------|------------|------------|---|

Origins Laboratory


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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

TP-02@12'

7/2/2024 10:02:00AM

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

**Origins Laboratory
 Y407478-05 (Soil)**

Boron (DTPA Sorbitol)

| | | | | | | | | |
|-------|-------|-------|------|---|---------|------------|------------|--|
| Boron | 0.867 | 0.101 | mg/L | 1 | B4G2208 | 07/22/2024 | 07/23/2024 | |
|-------|-------|-------|------|---|---------|------------|------------|--|

Metals by Saturated Paste by EPA 6010

| | | | | | | | | |
|-----------|------|-------|-------|----|--------|------------|------------|--|
| Calcium | 4.11 | 0.499 | meq/L | 10 | [CALC] | 07/22/2024 | 07/24/2024 | |
| Magnesium | 1.69 | 0.823 | " | " | " | " | " | |
| Sodium | 7.59 | 0.435 | " | " | " | " | " | |

pH in Soil by 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.03 | | pH Units | 1 | B4G2220 | 07/22/2024 | 07/23/2024 | |
|----|------|--|----------|---|---------|------------|------------|--|

SAR by 20B Saturated Paste

| | | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|--|
| SAR | 4.45 | 0.0100 | SAR | 1 | B4G2214 | 07/22/2024 | 07/24/2024 | |
|-----|------|--------|-----|---|---------|------------|------------|--|

Specific Conductance Mod. 9050A

| | | | | | | | | |
|---------------------------|------|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 1.38 | 0.00500 | mmhos/cm | 1 | B4G2220 | 07/22/2024 | 07/23/2024 | |
|---------------------------|------|---------|----------|---|---------|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | |
|---------|-------|--------|-------|----|---------|------------|------------|--|
| Arsenic | 6.28 | 0.248 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 | |
| Barium | 208 | 8.56 | " | " | " | " | " | |
| Cadmium | 0.202 | 0.0856 | " | " | " | " | " | |
| Copper | 11.5 | 8.56 | " | " | " | " | " | |

Origins Laboratory

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ORIGINS LABORATORY

Quandary Consultants
2252 Emerson St.
Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: REI H9-32D&33D&UPRC 9-12J5

TP-02@12'

7/2/2024 10:02:00AM

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

Origins Laboratory Y407478-05 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|----------|------|--------|--------|-------|----|---------|------------|------------|--|
| Lead | 10.7 | 0.856 | 0.856 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 | |
| Nickel | 15.6 | 0.856 | 0.856 | " | " | " | " | " | |
| Selenium | ND | 0.223 | 0.223 | " | " | " | " | " | |
| Silver | ND | 0.0856 | 0.0856 | " | " | " | " | " | |
| Zinc | 46.3 | 31.7 | 31.7 | " | " | " | " | " | |

Total Metals by 7196 A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.154 | 0.385 | mg/kg dry | 1 | 2648400 | 07/31/2024 | 08/01/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

TP-02@18'

7/2/2024 10:10:00AM

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

Origins Laboratory
Y407478-06 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | |
|-------|-------|--------|------|---|---------|------------|------------|
| Boron | 0.255 | 0.0984 | mg/L | 1 | B4G2208 | 07/22/2024 | 07/23/2024 |
|-------|-------|--------|------|---|---------|------------|------------|

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|------|-------|-------|----|--------|------------|------------|
| Calcium | 1.35 | 0.499 | meq/L | 10 | [CALC] | 07/22/2024 | 07/24/2024 |
| Magnesium | ND | 0.823 | " | " | " | " | " |
| Sodium | 3.17 | 0.435 | " | " | " | " | " |

pH in Soil by 9045D

| | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|
| pH | 8.31 | | pH Units | 1 | B4G2220 | 07/22/2024 | 07/23/2024 |
|----|------|--|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|
| SAR | 3.36 | 0.0100 | SAR | 1 | B4G2214 | 07/22/2024 | 07/24/2024 |
|-----|------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 0.578 | 0.00500 | mmhos/cm | 1 | B4G2220 | 07/22/2024 | 07/23/2024 |
|---------------------------|-------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

| | | | | | | | |
|---------|-------|--------|-------|----|---------|------------|------------|
| Arsenic | 5.94 | 0.280 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 |
| Barium | 164 | 9.65 | " | " | " | " | " |
| Cadmium | 0.277 | 0.0965 | " | " | " | " | " |
| Copper | 12.0 | 9.65 | " | " | " | " | " |

Origins Laboratory

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ORIGINS LABORATORY

Quandary Consultants
2252 Emerson St.
Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: REI H9-32D&33D&UPRC 9-12J5

TP-02@18'

7/2/2024 10:10:00AM

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

Origins Laboratory Y407478-06 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|----------|-------|--|--------|-------|----|---------|------------|------------|--|
| Lead | 12.3 | | 0.965 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 | |
| Nickel | 16.4 | | 0.965 | " | " | " | " | " | |
| Selenium | 0.276 | | 0.251 | " | " | " | " | " | |
| Silver | ND | | 0.0965 | " | " | " | " | " | |
| Zinc | 56.0 | | 35.7 | " | " | " | " | " | |

Total Metals by 7196 A

| | | | | | | | | | |
|---------------------|-------|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | 0.250 | 0.179 | 0.446 | mg/kg dry | 1 | 2648400 | 07/31/2024 | 08/01/2024 | J |
|---------------------|-------|-------|-------|-----------|---|---------|------------|------------|---|

Origins Laboratory



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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

TP-01@3'
7/2/2024 10:45:00AM

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

Origins Laboratory
Y407478-07 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | |
|-------|-------|-------|------|---|---------|------------|------------|
| Boron | 0.619 | 0.101 | mg/L | 1 | B4G2208 | 07/22/2024 | 07/23/2024 |
|-------|-------|-------|------|---|---------|------------|------------|

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|------|-------|-------|----|--------|------------|------------|
| Calcium | 1.79 | 0.499 | meq/L | 10 | [CALC] | 07/22/2024 | 07/24/2024 |
| Magnesium | ND | 0.823 | " | " | " | " | " |
| Sodium | 2.90 | 0.435 | " | " | " | " | " |

pH in Soil by 9045D

| | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|
| pH | 8.30 | | pH Units | 1 | B4G2220 | 07/22/2024 | 07/23/2024 |
|----|------|--|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|
| SAR | 2.63 | 0.0100 | SAR | 1 | B4G2214 | 07/22/2024 | 07/24/2024 |
|-----|------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 0.521 | 0.00500 | mmhos/cm | 1 | B4G2220 | 07/22/2024 | 07/23/2024 |
|---------------------------|-------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

| | | | | | | | |
|---------|-------|--------|-------|----|---------|------------|------------|
| Arsenic | 5.19 | 0.284 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 |
| Barium | 198 | 9.81 | " | " | " | " | " |
| Cadmium | 0.193 | 0.0981 | " | " | " | " | " |
| Copper | ND | 9.81 | " | " | " | " | " |

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ORIGINS LABORATORY

Quandary Consultants
2252 Emerson St.
Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: REI H9-32D&33D&UPRC 9-12J5

TP-01@3'
7/2/2024 10:45:00AM

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

Origins Laboratory Y407478-07 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|----------|------|--------|--------|-------|----|---------|------------|------------|--|
| Lead | 9.45 | 0.981 | 0.981 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 | |
| Nickel | 12.3 | 0.981 | 0.981 | " | " | " | " | " | |
| Selenium | ND | 0.255 | 0.255 | " | " | " | " | " | |
| Silver | ND | 0.0981 | 0.0981 | " | " | " | " | " | |
| Zinc | 37.8 | 36.3 | 36.3 | " | " | " | " | " | |

Total Metals by 7196 A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.156 | 0.389 | mg/kg dry | 1 | 2648400 | 07/31/2024 | 08/01/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

Origins Laboratory



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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

TP-01@6'
7/2/2024 10:47:00AM

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

Origins Laboratory
Y407478-08 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | | |
|-------|-------|-------|------|---|---------|------------|------------|--|
| Boron | 0.736 | 0.100 | mg/L | 1 | B4G2208 | 07/22/2024 | 07/23/2024 | |
|-------|-------|-------|------|---|---------|------------|------------|--|

Metals by Saturated Paste by EPA 6010

| | | | | | | | | |
|-----------|------|-------|-------|----|--------|------------|------------|--|
| Calcium | 14.1 | 0.499 | meq/L | 10 | [CALC] | 07/22/2024 | 07/24/2024 | |
| Magnesium | 5.50 | 0.823 | " | " | " | " | " | |
| Sodium | 11.7 | 0.435 | " | " | " | " | " | |

pH in Soil by 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.02 | | pH Units | 1 | B4G2220 | 07/22/2024 | 07/23/2024 | |
|----|------|--|----------|---|---------|------------|------------|--|

SAR by 20B Saturated Paste

| | | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|--|
| SAR | 3.72 | 0.0100 | SAR | 1 | B4G2214 | 07/22/2024 | 07/24/2024 | |
|-----|------|--------|-----|---|---------|------------|------------|--|

Specific Conductance Mod. 9050A

| | | | | | | | | |
|---------------------------|------|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 2.38 | 0.00500 | mmhos/cm | 1 | B4G2220 | 07/22/2024 | 07/23/2024 | |
|---------------------------|------|---------|----------|---|---------|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | |
|---------|-------|--------|-------|----|---------|------------|------------|--|
| Arsenic | 5.94 | 0.276 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 | |
| Barium | 208 | 9.50 | " | " | " | " | " | |
| Cadmium | 0.235 | 0.0950 | " | " | " | " | " | |
| Copper | 12.1 | 9.50 | " | " | " | " | " | |

Origins Laboratory

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Quandary Consultants
2252 Emerson St.
Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: REI H9-32D&33D&UPRC 9-12J5

TP-01@6'
7/2/2024 10:47:00AM

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

Origins Laboratory
Y407478-08 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|----------|------|--------|--------|-------|----|---------|------------|------------|--|
| Lead | 27.0 | 0.950 | 0.950 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 | |
| Nickel | 13.7 | 0.950 | 0.950 | " | " | " | " | " | |
| Selenium | ND | 0.247 | 0.247 | " | " | " | " | " | |
| Silver | ND | 0.0950 | 0.0950 | " | " | " | " | " | |
| Zinc | 53.3 | 35.2 | 35.2 | " | " | " | " | " | |

Total Metals by 7196 A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.162 | 0.406 | mg/kg dry | 1 | 2648400 | 07/31/2024 | 08/01/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

Origins Laboratory



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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

TP-01@12'
 7/2/2024 10:51:00AM

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

Origins Laboratory
 Y407478-09 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | |
|-------|------|--------|------|---|---------|------------|------------|
| Boron | 1.11 | 0.0999 | mg/L | 1 | B4G2208 | 07/22/2024 | 07/23/2024 |
|-------|------|--------|------|---|---------|------------|------------|

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|------|-------|-------|----|--------|------------|------------|
| Calcium | 3.02 | 0.499 | meq/L | 10 | [CALC] | 07/22/2024 | 07/24/2024 |
| Magnesium | 1.16 | 0.823 | " | " | " | " | " |
| Sodium | 7.92 | 0.435 | " | " | " | " | " |

pH in Soil by 9045D

| | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|
| pH | 7.83 | | pH Units | 1 | B4G2220 | 07/22/2024 | 07/23/2024 |
|----|------|--|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|
| SAR | 5.48 | 0.0100 | SAR | 1 | B4G2214 | 07/22/2024 | 07/24/2024 |
|-----|------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 1.22 | 0.00500 | mmhos/cm | 1 | B4G2220 | 07/22/2024 | 07/23/2024 |
|---------------------------|------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

| | | | | | | | |
|---------|-------|--------|-------|----|---------|------------|------------|
| Arsenic | 6.85 | 0.249 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 |
| Barium | 239 | 8.58 | " | " | " | " | " |
| Cadmium | 0.188 | 0.0858 | " | " | " | " | " |
| Copper | 13.2 | 8.58 | " | " | " | " | " |

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Quandary Consultants
2252 Emerson St.
Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: REI H9-32D&33D&UPRC 9-12J5

TP-01@12'

7/2/2024 10:51:00AM

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

Origins Laboratory
Y407478-09 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|----------|------|--|--------|-------|----|---------|------------|------------|---|
| Lead | 11.3 | | 0.858 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 | |
| Nickel | 18.8 | | 0.858 | " | " | " | " | " | " |
| Selenium | ND | | 0.223 | " | " | " | " | " | " |
| Silver | ND | | 0.0858 | " | " | " | " | " | " |
| Zinc | 48.7 | | 31.7 | " | " | " | " | " | " |

Total Metals by 7196 A

| | | | | | | | | | |
|---------------------|-------|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | 0.170 | 0.122 | 0.304 | mg/kg dry | 1 | 2648400 | 07/31/2024 | 08/01/2024 | J |
|---------------------|-------|-------|-------|-----------|---|---------|------------|------------|---|

Origins Laboratory

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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

TP-01@18'
7/2/2024 10:59:00AM

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

Origins Laboratory
Y407478-10 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | |
|-------|-------|-------|------|---|---------|------------|------------|
| Boron | 0.307 | 0.101 | mg/L | 1 | B4G2208 | 07/22/2024 | 07/23/2024 |
|-------|-------|-------|------|---|---------|------------|------------|

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|------|-------|-------|----|--------|------------|------------|
| Calcium | 1.54 | 0.499 | meq/L | 10 | [CALC] | 07/22/2024 | 07/24/2024 |
| Magnesium | ND | 0.823 | " | " | " | " | " |
| Sodium | 4.12 | 0.435 | " | " | " | " | " |

pH in Soil by 9045D

| | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|
| pH | 8.40 | | pH Units | 1 | B4G2220 | 07/22/2024 | 07/23/2024 |
|----|------|--|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|
| SAR | 3.99 | 0.0100 | SAR | 1 | B4G2214 | 07/22/2024 | 07/24/2024 |
|-----|------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 0.691 | 0.00500 | mmhos/cm | 1 | B4G2220 | 07/22/2024 | 07/23/2024 |
|---------------------------|-------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

| | | | | | | | |
|---------|-------|--------|-------|----|---------|------------|------------|
| Arsenic | 5.76 | 0.262 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 |
| Barium | 146 | 9.03 | " | " | " | " | " |
| Cadmium | 0.225 | 0.0903 | " | " | " | " | " |
| Copper | 11.8 | 9.03 | " | " | " | " | " |

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Quandary Consultants
2252 Emerson St.
Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: REI H9-32D&33D&UPRC 9-12J5

TP-01@18'

7/2/2024 10:59:00AM

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

Origins Laboratory Y407478-10 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|----------|------|--|--------|-------|----|---------|------------|------------|--|
| Lead | 12.1 | | 0.903 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 | |
| Nickel | 17.2 | | 0.903 | " | " | " | " | " | |
| Selenium | ND | | 0.235 | " | " | " | " | " | |
| Silver | ND | | 0.0903 | " | " | " | " | " | |
| Zinc | 53.2 | | 33.4 | " | " | " | " | " | |

Total Metals by 7196 A

| | | | | | | | | | |
|---------------------|-------|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | 0.209 | 0.149 | 0.373 | mg/kg dry | 1 | 2648400 | 07/31/2024 | 08/01/2024 | J |
|---------------------|-------|-------|-------|-----------|---|---------|------------|------------|---|

Origins Laboratory



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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG10@3'
7/2/2024 11:48:00AM

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

Origins Laboratory
Y407478-11 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | |
|-------|-------|--------|------|---|---------|------------|------------|
| Boron | 0.497 | 0.0997 | mg/L | 1 | B4G2208 | 07/22/2024 | 07/23/2024 |
|-------|-------|--------|------|---|---------|------------|------------|

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|-------|-------|-------|----|--------|------------|------------|
| Calcium | 1.34 | 0.499 | meq/L | 10 | [CALC] | 07/22/2024 | 07/24/2024 |
| Magnesium | ND | 0.823 | " | " | " | " | " |
| Sodium | 0.921 | 0.435 | " | " | " | " | " |

pH in Soil by 9045D

| | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|
| pH | 8.36 | | pH Units | 1 | B4G2220 | 07/22/2024 | 07/23/2024 |
|----|------|--|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|-------|--------|-----|---|---------|------------|------------|
| SAR | 0.963 | 0.0100 | SAR | 1 | B4G2214 | 07/22/2024 | 07/24/2024 |
|-----|-------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 0.257 | 0.00500 | mmhos/cm | 1 | B4G2220 | 07/22/2024 | 07/23/2024 |
|---------------------------|-------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

| | | | | | | | |
|---------|-------|--------|-------|----|---------|------------|------------|
| Arsenic | 6.27 | 0.258 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 |
| Barium | 153 | 8.89 | " | " | " | " | " |
| Cadmium | 0.177 | 0.0889 | " | " | " | " | " |
| Copper | ND | 8.89 | " | " | " | " | " |

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ORIGINS LABORATORY

Quandary Consultants
2252 Emerson St.
Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG10@3'
7/2/2024 11:48:00AM

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

Origins Laboratory Y407478-11 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | |
|----------|------|--------|-------|----|---------|------------|------------|---|
| Lead | 9.75 | 0.889 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 | |
| Nickel | 12.4 | 0.889 | " | " | " | " | " | " |
| Selenium | ND | 0.231 | " | " | " | " | " | " |
| Silver | ND | 0.0889 | " | " | " | " | " | " |
| Zinc | 38.9 | 32.9 | " | " | " | " | " | " |

Total Metals by 7196 A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.147 | 0.366 | mg/kg dry | 1 | 2648400 | 07/31/2024 | 08/01/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG10@6'
7/2/2024 11:52:00AM

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

Origins Laboratory
Y407478-12 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | | |
|-------|------|--------|------|---|---------|------------|------------|--|
| Boron | 1.60 | 0.0989 | mg/L | 1 | B4G2208 | 07/22/2024 | 07/23/2024 | |
|-------|------|--------|------|---|---------|------------|------------|--|

Metals by Saturated Paste by EPA 6010

| | | | | | | | | |
|-----------|------|-------|-------|----|--------|------------|------------|--|
| Calcium | 2.03 | 0.499 | meq/L | 10 | [CALC] | 07/22/2024 | 07/24/2024 | |
| Magnesium | 1.47 | 0.823 | " | " | " | " | " | |
| Sodium | 7.35 | 0.435 | " | " | " | " | " | |

pH in Soil by 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.44 | | pH Units | 1 | B4G2220 | 07/22/2024 | 07/23/2024 | |
|----|------|--|----------|---|---------|------------|------------|--|

SAR by 20B Saturated Paste

| | | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|--|
| SAR | 5.56 | 0.0100 | SAR | 1 | B4G2214 | 07/22/2024 | 07/24/2024 | |
|-----|------|--------|-----|---|---------|------------|------------|--|

Specific Conductance Mod. 9050A

| | | | | | | | | |
|---------------------------|------|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 1.10 | 0.00500 | mmhos/cm | 1 | B4G2220 | 07/22/2024 | 07/23/2024 | |
|---------------------------|------|---------|----------|---|---------|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | |
|---------|-------|--------|-------|----|---------|------------|------------|--|
| Arsenic | 6.14 | 0.275 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 | |
| Barium | 178 | 9.48 | " | " | " | " | " | |
| Cadmium | 0.186 | 0.0948 | " | " | " | " | " | |
| Copper | 10.9 | 9.48 | " | " | " | " | " | |

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ORIGINS LABORATORY

Quandary Consultants
2252 Emerson St.
Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG10@6'
7/2/2024 11:52:00AM

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

Origins Laboratory Y407478-12 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|----------|------|--|--------|-------|----|---------|------------|------------|---|
| Lead | 10.8 | | 0.948 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 | |
| Nickel | 14.0 | | 0.948 | " | " | " | " | " | " |
| Selenium | ND | | 0.246 | " | " | " | " | " | " |
| Silver | ND | | 0.0948 | " | " | " | " | " | " |
| Zinc | 46.6 | | 35.1 | " | " | " | " | " | " |

Total Metals by 7196 A

| | | | | | | | | | |
|---------------------|-------|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | 0.182 | 0.162 | 0.405 | mg/kg dry | 1 | 2648400 | 07/31/2024 | 08/01/2024 | J |
|---------------------|-------|-------|-------|-----------|---|---------|------------|------------|---|

Origins Laboratory



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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG10@12'
7/2/2024 11:56:00AM

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

Origins Laboratory
Y407478-13 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | | |
|-------|------|-------|------|---|---------|------------|------------|--|
| Boron | 1.35 | 0.100 | mg/L | 1 | B4G2208 | 07/22/2024 | 07/23/2024 | |
|-------|------|-------|------|---|---------|------------|------------|--|

Metals by Saturated Paste by EPA 6010

| | | | | | | | | |
|-----------|------|-------|-------|----|--------|------------|------------|--|
| Calcium | 3.15 | 0.499 | meq/L | 10 | [CALC] | 07/22/2024 | 07/24/2024 | |
| Magnesium | 1.83 | 0.823 | " | " | " | " | " | |
| Sodium | 11.7 | 0.435 | " | " | " | " | " | |

pH in Soil by 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.28 | | pH Units | 1 | B4G2220 | 07/22/2024 | 07/23/2024 | |
|----|------|--|----------|---|---------|------------|------------|--|

SAR by 20B Saturated Paste

| | | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|--|
| SAR | 7.42 | 0.0100 | SAR | 1 | B4G2214 | 07/22/2024 | 07/24/2024 | |
|-----|------|--------|-----|---|---------|------------|------------|--|

Specific Conductance Mod. 9050A

| | | | | | | | | |
|---------------------------|------|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 1.62 | 0.00500 | mmhos/cm | 1 | B4G2220 | 07/22/2024 | 07/23/2024 | |
|---------------------------|------|---------|----------|---|---------|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | |
|---------|-------|--------|-------|----|---------|------------|------------|--|
| Arsenic | 8.63 | 0.273 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 | |
| Barium | 302 | 9.40 | " | " | " | " | " | |
| Cadmium | 0.226 | 0.0940 | " | " | " | " | " | |
| Copper | 14.7 | 9.40 | " | " | " | " | " | |

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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG10@12'
7/2/2024 11:56:00AM

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

Origins Laboratory
Y407478-13 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|----------|------|--|--------|-------|----|---------|------------|------------|--|
| Lead | 12.5 | | 0.940 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 | |
| Nickel | 17.1 | | 0.940 | " | " | " | " | " | |
| Selenium | ND | | 0.244 | " | " | " | " | " | |
| Silver | ND | | 0.0940 | " | " | " | " | " | |
| Zinc | 57.0 | | 34.8 | " | " | " | " | " | |

Total Metals by 7196 A

| | | | | | | | | | |
|---------------------|-------|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | 0.247 | 0.127 | 0.318 | mg/kg dry | 1 | 2648400 | 07/31/2024 | 08/01/2024 | J |
|---------------------|-------|-------|-------|-----------|---|---------|------------|------------|---|

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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG10@18'
7/2/2024 12:02:00PM

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

Origins Laboratory
Y407478-14 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | | | |
|-------|-------|--|--------|------|---|---------|------------|------------|--|
| Boron | 0.107 | | 0.0999 | mg/L | 1 | B4G2208 | 07/22/2024 | 07/23/2024 | |
|-------|-------|--|--------|------|---|---------|------------|------------|--|

Metals by Saturated Paste by EPA 6010

| | | | | | | | | | |
|-----------|------|--|-------|-------|----|--------|------------|------------|--|
| Calcium | ND | | 0.499 | meq/L | 10 | [CALC] | 07/22/2024 | 07/24/2024 | |
| Magnesium | ND | | 0.823 | " | " | " | " | " | |
| Sodium | 2.22 | | 0.435 | " | " | " | " | " | |

pH in Soil by 9045D

| | | | | | | | | | |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 8.62 | | | pH Units | 1 | B4G2221 | 07/22/2024 | 07/23/2024 | |
|----|------|--|--|----------|---|---------|------------|------------|--|

SAR by 20B Saturated Paste

| | | | | | | | | | |
|-----|------|--|--------|-----|---|---------|------------|------------|--|
| SAR | 4.42 | | 0.0100 | SAR | 1 | B4G2215 | 07/22/2024 | 07/24/2024 | |
|-----|------|--|--------|-----|---|---------|------------|------------|--|

Specific Conductance Mod. 9050A

| | | | | | | | | | |
|---------------------------|-------|--|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.275 | | 0.00500 | mmhos/cm | 1 | B4G2221 | 07/22/2024 | 07/23/2024 | |
|---------------------------|-------|--|---------|----------|---|---------|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|---------|-------|--|--------|-------|----|---------|------------|------------|--|
| Arsenic | 4.17 | | 0.254 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 | |
| Barium | 94.9 | | 8.77 | " | " | " | " | " | |
| Cadmium | 0.196 | | 0.0877 | " | " | " | " | " | |
| Copper | ND | | 8.77 | " | " | " | " | " | |

Origins Laboratory

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ORIGINS LABORATORY

Quandary Consultants
2252 Emerson St.
Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG10@18'
7/2/2024 12:02:00PM

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


Origins Laboratory Y407478-14 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|----------|------|--|--------|-------|----|---------|------------|------------|---|
| Lead | 6.89 | | 0.877 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 | |
| Nickel | 31.6 | | 0.877 | " | " | " | " | " | " |
| Selenium | ND | | 0.228 | " | " | " | " | " | " |
| Silver | ND | | 0.0877 | " | " | " | " | " | " |
| Zinc | ND | | 32.5 | " | " | " | " | " | " |

Total Metals by 7196 A

| | | | | | | | | | |
|---------------------|-------|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | 0.233 | 0.140 | 0.349 | mg/kg dry | 1 | 2648400 | 07/31/2024 | 08/01/2024 | J |
|---------------------|-------|-------|-------|-----------|---|---------|------------|------------|---|

Origins Laboratory


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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG11@3'
7/2/2024 11:29:00AM

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

Origins Laboratory
Y407478-15 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | |
|-------|-------|-------|------|---|---------|------------|------------|
| Boron | 0.217 | 0.102 | mg/L | 1 | B4G2208 | 07/22/2024 | 07/23/2024 |
|-------|-------|-------|------|---|---------|------------|------------|

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|-------|-------|-------|----|--------|------------|------------|
| Calcium | 1.40 | 0.499 | meq/L | 10 | [CALC] | 07/22/2024 | 07/24/2024 |
| Magnesium | ND | 0.823 | " | " | " | " | " |
| Sodium | 0.540 | 0.435 | " | " | " | " | " |

pH in Soil by 9045D

| | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|
| pH | 8.34 | | pH Units | 1 | B4G2221 | 07/22/2024 | 07/24/2024 |
|----|------|--|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|-------|--------|-----|---|---------|------------|------------|
| SAR | 0.530 | 0.0100 | SAR | 1 | B4G2215 | 07/22/2024 | 07/24/2024 |
|-----|-------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 0.272 | 0.00500 | mmhos/cm | 1 | B4G2221 | 07/22/2024 | 07/23/2024 |
|---------------------------|-------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

| | | | | | | | |
|---------|-------|--------|-------|----|---------|------------|------------|
| Arsenic | 3.70 | 0.272 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 |
| Barium | 109 | 9.37 | " | " | " | " | " |
| Cadmium | 0.101 | 0.0937 | " | " | " | " | " |
| Copper | ND | 9.37 | " | " | " | " | " |

Origins Laboratory

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ORIGINS LABORATORY

Quandary Consultants
2252 Emerson St.
Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG11@3'
7/2/2024 11:29:00AM

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

Origins Laboratory Y407478-15 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|----------|------|--|--------|-------|----|---------|------------|------------|--|
| Lead | 7.58 | | 0.937 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 | |
| Nickel | 9.24 | | 0.937 | " | " | " | " | " | |
| Selenium | ND | | 0.244 | " | " | " | " | " | |
| Silver | ND | | 0.0937 | " | " | " | " | " | |
| Zinc | ND | | 34.7 | " | " | " | " | " | |

Total Metals by 7196 A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.141 | 0.353 | mg/kg dry | 1 | 2648400 | 07/31/2024 | 08/01/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

Origins Laboratory



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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG11@6'
7/2/2024 11:33:00AM

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

Origins Laboratory
Y407478-16 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | | |
|-------|-------|--------|------|---|---------|------------|------------|--|
| Boron | 0.385 | 0.0999 | mg/L | 1 | B4G2208 | 07/22/2024 | 07/23/2024 | |
|-------|-------|--------|------|---|---------|------------|------------|--|

Metals by Saturated Paste by EPA 6010

| | | | | | | | | |
|-----------|-------|-------|-------|----|--------|------------|------------|--|
| Calcium | 1.25 | 0.499 | meq/L | 10 | [CALC] | 07/22/2024 | 07/24/2024 | |
| Magnesium | 0.907 | 0.823 | " | " | " | " | " | |
| Sodium | 2.93 | 0.435 | " | " | " | " | " | |

pH in Soil by 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.47 | | pH Units | 1 | B4G2221 | 07/22/2024 | 07/24/2024 | |
|----|------|--|----------|---|---------|------------|------------|--|

SAR by 20B Saturated Paste

| | | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|--|
| SAR | 2.83 | 0.0100 | SAR | 1 | B4G2215 | 07/22/2024 | 07/24/2024 | |
|-----|------|--------|-----|---|---------|------------|------------|--|

Specific Conductance Mod. 9050A

| | | | | | | | | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.540 | 0.00500 | mmhos/cm | 1 | B4G2221 | 07/22/2024 | 07/23/2024 | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | |
|---------|-------|--------|-------|----|---------|------------|------------|--|
| Arsenic | 5.06 | 0.277 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 | |
| Barium | 141 | 9.54 | " | " | " | " | " | |
| Cadmium | 0.156 | 0.0954 | " | " | " | " | " | |
| Copper | 9.81 | 9.54 | " | " | " | " | " | |

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ORIGINS LABORATORY

Quandary Consultants
2252 Emerson St.
Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG11@6'
7/2/2024 11:33:00AM

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

Origins Laboratory Y407478-16 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|----------|------|--------|--------|-------|----|---------|------------|------------|--|
| Lead | 9.43 | 0.954 | 0.954 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 | |
| Nickel | 12.7 | 0.954 | 0.954 | " | " | " | " | " | |
| Selenium | ND | 0.248 | 0.248 | " | " | " | " | " | |
| Silver | ND | 0.0954 | 0.0954 | " | " | " | " | " | |
| Zinc | 39.8 | 35.3 | 35.3 | " | " | " | " | " | |

Total Metals by 7196 A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.160 | 0.400 | mg/kg dry | 1 | 2648400 | 07/31/2024 | 08/01/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

Origins Laboratory



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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG11@12'
7/2/2024 11:37:00AM

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

Origins Laboratory
Y407478-17 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | |
|-------|-------|-------|------|---|---------|------------|------------|
| Boron | 0.376 | 0.100 | mg/L | 1 | B4G2208 | 07/22/2024 | 07/23/2024 |
|-------|-------|-------|------|---|---------|------------|------------|

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|------|-------|-------|----|--------|------------|------------|
| Calcium | 1.31 | 0.499 | meq/L | 10 | [CALC] | 07/22/2024 | 07/24/2024 |
| Magnesium | ND | 0.823 | " | " | " | " | " |
| Sodium | 4.58 | 0.435 | " | " | " | " | " |

pH in Soil by 9045D

| | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|
| pH | 8.41 | | pH Units | 1 | B4G2221 | 07/22/2024 | 07/24/2024 |
|----|------|--|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|
| SAR | 4.80 | 0.0100 | SAR | 1 | B4G2215 | 07/22/2024 | 07/24/2024 |
|-----|------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 0.708 | 0.00500 | mmhos/cm | 1 | B4G2221 | 07/22/2024 | 07/23/2024 |
|---------------------------|-------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

| | | | | | | | |
|---------|-------|--------|-------|----|---------|------------|------------|
| Arsenic | 5.14 | 0.274 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 |
| Barium | 203 | 9.46 | " | " | " | " | " |
| Cadmium | 0.167 | 0.0946 | " | " | " | " | " |
| Copper | 10.5 | 9.46 | " | " | " | " | " |

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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG11@12'
 7/2/2024 11:37:00AM

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

Origins Laboratory
 Y407478-17 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|----------|------|--|--------|-------|----|---------|------------|------------|---|
| Lead | 14.2 | | 0.946 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 | |
| Nickel | 20.4 | | 0.946 | " | " | " | " | " | " |
| Selenium | ND | | 0.246 | " | " | " | " | " | " |
| Silver | ND | | 0.0946 | " | " | " | " | " | " |
| Zinc | 53.7 | | 35.0 | " | " | " | " | " | " |

Total Metals by 7196 A

| | | | | | | | | | |
|---------------------|-------|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | 0.166 | 0.147 | 0.369 | mg/kg dry | 1 | 2648400 | 07/31/2024 | 08/01/2024 | J |
|---------------------|-------|-------|-------|-----------|---|---------|------------|------------|---|

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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG11@18'
 7/2/2024 11:43:00AM

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

Origins Laboratory
 Y407478-18 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | |
|-------|-------|--------|------|---|---------|------------|------------|
| Boron | 0.277 | 0.0996 | mg/L | 1 | B4G2208 | 07/22/2024 | 07/23/2024 |
|-------|-------|--------|------|---|---------|------------|------------|

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|-------|-------|-------|----|--------|------------|------------|
| Calcium | 0.949 | 0.499 | meq/L | 10 | [CALC] | 07/22/2024 | 07/24/2024 |
| Magnesium | ND | 0.823 | " | " | " | " | " |
| Sodium | 3.19 | 0.435 | " | " | " | " | " |

pH in Soil by 9045D

| | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|
| pH | 8.53 | | pH Units | 1 | B4G2221 | 07/22/2024 | 07/24/2024 |
|----|------|--|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|
| SAR | 3.85 | 0.0100 | SAR | 1 | B4G2215 | 07/22/2024 | 07/24/2024 |
|-----|------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 0.489 | 0.00500 | mmhos/cm | 1 | B4G2221 | 07/22/2024 | 07/23/2024 |
|---------------------------|-------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

| | | | | | | | |
|---------|-------|--------|-------|----|---------|------------|------------|
| Arsenic | 4.87 | 0.285 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 |
| Barium | 184 | 9.81 | " | " | " | " | " |
| Cadmium | 0.232 | 0.0981 | " | " | " | " | " |
| Copper | ND | 9.81 | " | " | " | " | " |

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ORIGINS LABORATORY

Quandary Consultants
2252 Emerson St.
Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG11@18'
7/2/2024 11:43:00AM

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


Origins Laboratory Y407478-18 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|----------|------|--|--------|-------|----|---------|------------|------------|---|
| Lead | 10.3 | | 0.981 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 | |
| Nickel | 18.3 | | 0.981 | " | " | " | " | " | " |
| Selenium | ND | | 0.255 | " | " | " | " | " | " |
| Silver | ND | | 0.0981 | " | " | " | " | " | " |
| Zinc | 46.8 | | 36.3 | " | " | " | " | " | " |

Total Metals by 7196 A

| | | | | | | | | | |
|---------------------|-------|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | 0.215 | 0.154 | 0.384 | mg/kg dry | 1 | 2648400 | 07/31/2024 | 08/01/2024 | J |
|---------------------|-------|-------|-------|-----------|---|---------|------------|------------|---|

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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG12@3'
7/2/2024 11:05:00AM

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

Origins Laboratory
Y407478-19 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | | |
|-------|-------|-------|------|---|---------|------------|------------|--|
| Boron | 0.281 | 0.101 | mg/L | 1 | B4G2208 | 07/22/2024 | 07/23/2024 | |
|-------|-------|-------|------|---|---------|------------|------------|--|

Metals by Saturated Paste by EPA 6010

| | | | | | | | | |
|-----------|-------|-------|-------|----|--------|------------|------------|--|
| Calcium | 1.33 | 0.499 | meq/L | 10 | [CALC] | 07/22/2024 | 07/24/2024 | |
| Magnesium | ND | 0.823 | " | " | " | " | " | |
| Sodium | 0.774 | 0.435 | " | " | " | " | " | |

pH in Soil by 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.28 | | pH Units | 1 | B4G2221 | 07/22/2024 | 07/24/2024 | |
|----|------|--|----------|---|---------|------------|------------|--|

SAR by 20B Saturated Paste

| | | | | | | | | |
|-----|-------|--------|-----|---|---------|------------|------------|--|
| SAR | 0.762 | 0.0100 | SAR | 1 | B4G2215 | 07/22/2024 | 07/24/2024 | |
|-----|-------|--------|-----|---|---------|------------|------------|--|

Specific Conductance Mod. 9050A

| | | | | | | | | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.282 | 0.00500 | mmhos/cm | 1 | B4G2221 | 07/22/2024 | 07/23/2024 | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | |
|---------|--------|--------|-------|----|---------|------------|------------|--|
| Arsenic | 2.67 | 0.266 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 | |
| Barium | 113 | 9.17 | " | " | " | " | " | |
| Cadmium | 0.0927 | 0.0917 | " | " | " | " | " | |
| Copper | ND | 9.17 | " | " | " | " | " | |

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ORIGINS LABORATORY

Quandary Consultants
2252 Emerson St.
Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG12@3'
7/2/2024 11:05:00AM

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

Origins Laboratory Y407478-19 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|----------|------|--|--------|-------|----|---------|------------|------------|--|
| Lead | 6.38 | | 0.917 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 | |
| Nickel | 9.08 | | 0.917 | " | " | " | " | " | |
| Selenium | ND | | 0.239 | " | " | " | " | " | |
| Silver | ND | | 0.0917 | " | " | " | " | " | |
| Zinc | ND | | 33.9 | " | " | " | " | " | |

Total Metals by 7196 A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.134 | 0.336 | mg/kg dry | 1 | 2648400 | 07/31/2024 | 08/01/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

Origins Laboratory



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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG12@6'
7/2/2024 11:08:00AM

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

Origins Laboratory
Y407478-20 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | | |
|-------|-------|-------|------|---|---------|------------|------------|--|
| Boron | 0.760 | 0.100 | mg/L | 1 | B4G2208 | 07/22/2024 | 07/23/2024 | |
|-------|-------|-------|------|---|---------|------------|------------|--|

Metals by Saturated Paste by EPA 6010

| | | | | | | | | |
|-----------|------|-------|-------|----|--------|------------|------------|--|
| Calcium | 1.48 | 0.499 | meq/L | 10 | [CALC] | 07/22/2024 | 07/24/2024 | |
| Magnesium | 1.47 | 0.823 | " | " | " | " | " | |
| Sodium | 4.64 | 0.435 | " | " | " | " | " | |

pH in Soil by 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.43 | | pH Units | 1 | B4G2221 | 07/22/2024 | 07/24/2024 | |
|----|------|--|----------|---|---------|------------|------------|--|

SAR by 20B Saturated Paste

| | | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|--|
| SAR | 3.82 | 0.0100 | SAR | 1 | B4G2215 | 07/22/2024 | 07/24/2024 | |
|-----|------|--------|-----|---|---------|------------|------------|--|

Specific Conductance Mod. 9050A

| | | | | | | | | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.816 | 0.00500 | mmhos/cm | 1 | B4G2221 | 07/22/2024 | 07/23/2024 | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | |
|---------|-------|--------|-------|----|---------|------------|------------|--|
| Arsenic | 6.26 | 0.267 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 | |
| Barium | 305 | 9.20 | " | " | " | " | " | |
| Cadmium | 0.212 | 0.0920 | " | " | " | " | " | |
| Copper | 14.8 | 9.20 | " | " | " | " | " | |

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ORIGINS LABORATORY

Quandary Consultants
2252 Emerson St.
Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG12@6'
7/2/2024 11:08:00AM

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


Origins Laboratory Y407478-20 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|----------|------|--|--------|-------|----|---------|------------|------------|---|
| Lead | 11.9 | | 0.920 | mg/kg | 10 | B4G1948 | 07/19/2024 | 07/24/2024 | |
| Nickel | 18.2 | | 0.920 | " | " | " | " | " | " |
| Selenium | ND | | 0.239 | " | " | " | " | " | " |
| Silver | ND | | 0.0920 | " | " | " | " | " | " |
| Zinc | 54.6 | | 34.0 | " | " | " | " | " | " |

Total Metals by 7196 A

| | | | | | | | | | |
|---------------------|-------|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | 0.242 | 0.124 | 0.311 | mg/kg dry | 1 | 2648400 | 07/31/2024 | 08/01/2024 | J |
|---------------------|-------|-------|-------|-----------|---|---------|------------|------------|---|

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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG12@12'
7/2/2024 11:15:00AM

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

Origins Laboratory
Y407478-21 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | | |
|-------|-------|--------|------|---|---------|------------|------------|--|
| Boron | 0.583 | 0.0986 | mg/L | 1 | B4G2208 | 07/22/2024 | 07/23/2024 | |
|-------|-------|--------|------|---|---------|------------|------------|--|

Metals by Saturated Paste by EPA 6010

| | | | | | | | | |
|-----------|-------|-------|-------|----|--------|------------|------------|--|
| Calcium | 1.57 | 0.499 | meq/L | 10 | [CALC] | 07/22/2024 | 07/24/2024 | |
| Magnesium | 0.906 | 0.823 | " | " | " | " | " | |
| Sodium | 4.11 | 0.435 | " | " | " | " | " | |

pH in Soil by 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.20 | | pH Units | 1 | B4G2221 | 07/22/2024 | 07/24/2024 | |
|----|------|--|----------|---|---------|------------|------------|--|

SAR by 20B Saturated Paste

| | | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|--|
| SAR | 3.69 | 0.0100 | SAR | 1 | B4G2215 | 07/22/2024 | 07/24/2024 | |
|-----|------|--------|-----|---|---------|------------|------------|--|

Specific Conductance Mod. 9050A

| | | | | | | | | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.742 | 0.00500 | mmhos/cm | 1 | B4G2221 | 07/22/2024 | 07/23/2024 | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | |
|---------|-------|--------|-------|----|---------|------------|------------|--|
| Arsenic | 7.99 | 0.260 | mg/kg | 10 | B4G1950 | 07/22/2024 | 07/25/2024 | |
| Barium | 209 | 8.97 | " | " | " | " | " | |
| Cadmium | 0.217 | 0.0897 | " | " | " | " | " | |
| Copper | 14.6 | 8.97 | " | " | " | " | " | |

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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG12@12'
7/2/2024 11:15:00AM

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

Origins Laboratory
Y407478-21 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|----------|------|--|--------|-------|----|---------|------------|------------|---|
| Lead | 11.9 | | 0.897 | mg/kg | 10 | B4G1950 | 07/22/2024 | 07/25/2024 | |
| Nickel | 16.3 | | 0.897 | " | " | " | " | " | " |
| Selenium | ND | | 0.233 | " | " | " | " | " | " |
| Silver | ND | | 0.0897 | " | " | " | " | " | " |
| Zinc | 55.6 | | 33.2 | " | " | " | " | " | " |

Total Metals by 7196 A

| | | | | | | | | | |
|---------------------|-------|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | 0.170 | 0.121 | 0.303 | mg/kg dry | 1 | 2648400 | 07/31/2024 | 08/01/2024 | J |
|---------------------|-------|-------|-------|-----------|---|---------|------------|------------|---|

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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG12@18'
7/2/2024 11:23:00AM

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

Origins Laboratory
Y407478-22 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | | |
|-------|-------|-------|------|---|---------|------------|------------|--|
| Boron | 0.399 | 0.101 | mg/L | 1 | B4G2208 | 07/22/2024 | 07/23/2024 | |
|-------|-------|-------|------|---|---------|------------|------------|--|

Metals by Saturated Paste by EPA 6010

| | | | | | | | | |
|-----------|------|-------|-------|----|--------|------------|------------|--|
| Calcium | ND | 0.499 | meq/L | 10 | [CALC] | 07/22/2024 | 07/24/2024 | |
| Magnesium | ND | 0.823 | " | " | " | " | " | |
| Sodium | 1.67 | 0.435 | " | " | " | " | " | |

pH in Soil by 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.43 | | pH Units | 1 | B4G2221 | 07/22/2024 | 07/24/2024 | |
|----|------|--|----------|---|---------|------------|------------|--|

SAR by 20B Saturated Paste

| | | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|--|
| SAR | 2.96 | 0.0100 | SAR | 1 | B4G2215 | 07/22/2024 | 07/24/2024 | |
|-----|------|--------|-----|---|---------|------------|------------|--|

Specific Conductance Mod. 9050A

| | | | | | | | | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.247 | 0.00500 | mmhos/cm | 1 | B4G2221 | 07/22/2024 | 07/23/2024 | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | |
|---------|-------|--------|-------|----|---------|------------|------------|--|
| Arsenic | 5.77 | 0.254 | mg/kg | 10 | B4G1950 | 07/22/2024 | 07/25/2024 | |
| Barium | 166 | 8.78 | " | " | " | " | " | |
| Cadmium | 0.185 | 0.0878 | " | " | " | " | " | |
| Copper | 15.2 | 8.78 | " | " | " | " | " | |

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Quandary Consultants
2252 Emerson St.
Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG12@18'
7/2/2024 11:23:00AM

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

Origins Laboratory
Y407478-22 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|----------|------|--|--------|-------|----|---------|------------|------------|--|
| Lead | 15.0 | | 0.878 | mg/kg | 10 | B4G1950 | 07/22/2024 | 07/25/2024 | |
| Nickel | 19.2 | | 0.878 | " | " | " | " | " | |
| Selenium | ND | | 0.228 | " | " | " | " | " | |
| Silver | ND | | 0.0878 | " | " | " | " | " | |
| Zinc | 68.5 | | 32.5 | " | " | " | " | " | |

Total Metals by 7196A

| | | | | | | | | | |
|---------------------|-------|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | 0.308 | 0.158 | 0.396 | mg/kg dry | 1 | 2648402 | 07/31/2024 | 08/01/2024 | J |
|---------------------|-------|-------|-------|-----------|---|---------|------------|------------|---|

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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG13@3'
7/2/2024 12:26:00PM

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

Origins Laboratory
Y407478-23 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | |
|-------|-------|--------|------|---|---------|------------|------------|
| Boron | 0.103 | 0.0983 | mg/L | 1 | B4G2208 | 07/22/2024 | 07/23/2024 |
|-------|-------|--------|------|---|---------|------------|------------|

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|-------|-------|-------|----|--------|------------|------------|
| Calcium | 0.836 | 0.499 | meq/L | 10 | [CALC] | 07/22/2024 | 07/24/2024 |
| Magnesium | ND | 0.823 | " | " | " | " | " |
| Sodium | ND | 0.435 | " | " | " | " | " |

pH in Soil by 9045D

| | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|
| pH | 8.32 | | pH Units | 1 | B4G2221 | 07/22/2024 | 07/24/2024 |
|----|------|--|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|--------|--------|-----|---|---------|------------|------------|
| SAR | 0.0576 | 0.0100 | SAR | 1 | B4G2215 | 07/22/2024 | 07/24/2024 |
|-----|--------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 0.164 | 0.00500 | mmhos/cm | 1 | B4G2221 | 07/22/2024 | 07/23/2024 |
|---------------------------|-------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

| | | | | | | | |
|---------|------|--------|-------|----|---------|------------|------------|
| Arsenic | 1.20 | 0.285 | mg/kg | 10 | B4G1950 | 07/22/2024 | 07/25/2024 |
| Barium | 45.8 | 9.83 | " | " | " | " | " |
| Cadmium | ND | 0.0983 | " | " | " | " | " |

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Quandary Consultants
2252 Emerson St.
Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG13@3'
7/2/2024 12:26:00PM

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

Origins Laboratory Y407478-23 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|----------|------|--|--------|-------|----|---------|------------|------------|---|
| Copper | ND | | 9.83 | mg/kg | 10 | B4G1950 | 07/22/2024 | 07/25/2024 | |
| Lead | 4.19 | | 0.983 | " | " | " | " | " | " |
| Nickel | 3.79 | | 0.983 | " | " | " | " | " | " |
| Selenium | ND | | 0.255 | " | " | " | " | " | " |
| Silver | ND | | 0.0983 | " | " | " | " | " | " |
| Zinc | ND | | 36.4 | " | " | " | " | " | " |

Total Metals by 7196A

| | | | | | | | | | |
|---------------------|-------|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | 0.123 | 0.109 | 0.273 | mg/kg dry | 1 | 2648402 | 07/31/2024 | 08/01/2024 | J |
|---------------------|-------|-------|-------|-----------|---|---------|------------|------------|---|

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 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG13@6'
7/2/2024 12:28:00PM

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

Origins Laboratory
Y407478-24 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | | |
|-------|-------|-------|------|---|---------|------------|------------|--|
| Boron | 0.126 | 0.101 | mg/L | 1 | B4G2208 | 07/22/2024 | 07/23/2024 | |
|-------|-------|-------|------|---|---------|------------|------------|--|

Metals by Saturated Paste by EPA 6010

| | | | | | | | | |
|-----------|------|-------|-------|----|--------|------------|------------|--|
| Calcium | 1.73 | 0.499 | meq/L | 10 | [CALC] | 07/24/2024 | 07/25/2024 | |
| Magnesium | ND | 0.823 | " | " | " | " | " | |
| Sodium | ND | 0.435 | " | " | " | " | " | |

pH in Soil by 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.08 | | pH Units | 1 | B4G2416 | 07/24/2024 | 07/25/2024 | |
|----|------|--|----------|---|---------|------------|------------|--|

SAR by 20B Saturated Paste

| | | | | | | | | |
|-----|-------|--------|-----|---|---------|------------|------------|--|
| SAR | 0.121 | 0.0100 | SAR | 1 | B4G2411 | 07/24/2024 | 07/25/2024 | |
|-----|-------|--------|-----|---|---------|------------|------------|--|

Specific Conductance Mod. 9050A

| | | | | | | | | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.232 | 0.00500 | mmhos/cm | 1 | B4G2416 | 07/24/2024 | 07/25/2024 | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | |
|---------|------|--------|-------|----|---------|------------|------------|--|
| Arsenic | 1.75 | 0.268 | mg/kg | 10 | B4G1950 | 07/22/2024 | 07/25/2024 | |
| Barium | 79.3 | 9.25 | " | " | " | " | " | |
| Cadmium | ND | 0.0925 | " | " | " | " | " | |

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ORIGINS LABORATORY

Quandary Consultants
2252 Emerson St.
Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG13@6'
7/2/2024 12:28:00PM

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

Origins Laboratory Y407478-24 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|----------|-------------|--|--------|-------|----|---------|------------|------------|--|
| Copper | ND | | 9.25 | mg/kg | 10 | B4G1950 | 07/22/2024 | 07/25/2024 | |
| Lead | 5.21 | | 0.925 | " | " | " | " | " | |
| Nickel | 5.33 | | 0.925 | " | " | " | " | " | |
| Selenium | ND | | 0.241 | " | " | " | " | " | |
| Silver | ND | | 0.0925 | " | " | " | " | " | |
| Zinc | ND | | 34.2 | " | " | " | " | " | |

Total Metals by 7196A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.149 | 0.372 | mg/kg dry | 1 | 2648402 | 07/31/2024 | 08/01/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

Origins Laboratory



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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG13@12'
7/2/2024 12:34:00PM

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

Origins Laboratory
Y407478-25 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | |
|-------|-------|-------|------|---|---------|------------|------------|
| Boron | 0.248 | 0.101 | mg/L | 1 | B4G2209 | 07/22/2024 | 07/23/2024 |
|-------|-------|-------|------|---|---------|------------|------------|

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|-------|-------|-------|----|--------|------------|------------|
| Calcium | 0.898 | 0.499 | meq/L | 10 | [CALC] | 07/22/2024 | 07/24/2024 |
| Magnesium | ND | 0.823 | " | " | " | " | " |
| Sodium | 1.44 | 0.435 | " | " | " | " | " |

pH in Soil by 9045D

| | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|
| pH | 8.37 | | pH Units | 1 | B4G2221 | 07/22/2024 | 07/24/2024 |
|----|------|--|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|
| SAR | 1.78 | 0.0100 | SAR | 1 | B4G2215 | 07/22/2024 | 07/24/2024 |
|-----|------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 0.278 | 0.00500 | mmhos/cm | 1 | B4G2221 | 07/22/2024 | 07/23/2024 |
|---------------------------|-------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

| | | | | | | | |
|---------|-------|--------|-------|----|---------|------------|------------|
| Arsenic | 3.73 | 0.252 | mg/kg | 10 | B4G1950 | 07/22/2024 | 07/25/2024 |
| Barium | 164 | 8.70 | " | " | " | " | " |
| Cadmium | 0.105 | 0.0870 | " | " | " | " | " |
| Copper | ND | 8.70 | " | " | " | " | " |

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Quandary Consultants
2252 Emerson St.
Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG13@12'
7/2/2024 12:34:00PM

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


Origins Laboratory
Y407478-25 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|----------|------|--|--------|-------|----|---------|------------|------------|---|
| Lead | 8.29 | | 0.870 | mg/kg | 10 | B4G1950 | 07/22/2024 | 07/25/2024 | |
| Nickel | 11.1 | | 0.870 | " | " | " | " | " | " |
| Selenium | ND | | 0.226 | " | " | " | " | " | " |
| Silver | ND | | 0.0870 | " | " | " | " | " | " |
| Zinc | 38.0 | | 32.2 | " | " | " | " | " | " |

Total Metals by 7196A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.150 | 0.375 | mg/kg dry | 1 | 2648402 | 07/31/2024 | 08/01/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG13@18'
7/2/2024 12:37:00PM

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

Origins Laboratory
Y407478-26 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | |
|-------|-------|--------|------|---|---------|------------|------------|
| Boron | 0.414 | 0.0999 | mg/L | 1 | B4G2209 | 07/22/2024 | 07/23/2024 |
|-------|-------|--------|------|---|---------|------------|------------|

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|-------|-------|-------|----|--------|------------|------------|
| Calcium | 0.750 | 0.499 | meq/L | 10 | [CALC] | 07/22/2024 | 07/24/2024 |
| Magnesium | ND | 0.823 | " | " | " | " | " |
| Sodium | 2.94 | 0.435 | " | " | " | " | " |

pH in Soil by 9045D

| | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|
| pH | 8.54 | | pH Units | 1 | B4G2221 | 07/22/2024 | 07/24/2024 |
|----|------|--|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|
| SAR | 3.97 | 0.0100 | SAR | 1 | B4G2215 | 07/22/2024 | 07/24/2024 |
|-----|------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 0.430 | 0.00500 | mmhos/cm | 1 | B4G2221 | 07/22/2024 | 07/23/2024 |
|---------------------------|-------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

| | | | | | | | |
|---------|-------|--------|-------|----|---------|------------|------------|
| Arsenic | 6.89 | 0.271 | mg/kg | 10 | B4G1950 | 07/22/2024 | 07/25/2024 |
| Barium | 255 | 9.36 | " | " | " | " | " |
| Cadmium | 0.222 | 0.0936 | " | " | " | " | " |
| Copper | 13.4 | 9.36 | " | " | " | " | " |

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Quandary Consultants
2252 Emerson St.
Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG13@18'
7/2/2024 12:37:00PM

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


Origins Laboratory
Y407478-26 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|----------|------|--|--------|-------|----|---------|------------|------------|---|
| Lead | 11.0 | | 0.936 | mg/kg | 10 | B4G1950 | 07/22/2024 | 07/25/2024 | |
| Nickel | 15.4 | | 0.936 | " | " | " | " | " | " |
| Selenium | ND | | 0.243 | " | " | " | " | " | " |
| Silver | ND | | 0.0936 | " | " | " | " | " | " |
| Zinc | 49.6 | | 34.6 | " | " | " | " | " | " |

Total Metals by 7196A

| | | | | | | | | | |
|---------------------|-------|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | 0.127 | 0.113 | 0.282 | mg/kg dry | 1 | 2648402 | 07/31/2024 | 08/01/2024 | J |
|---------------------|-------|-------|-------|-----------|---|---------|------------|------------|---|

Origins Laboratory


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.



Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG14@3'
7/2/2024 12:10:00PM

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

Origins Laboratory
Y407478-27 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | |
|-------|----|------|------|----|---------|------------|------------|
| Boron | ND | 1.01 | mg/L | 10 | B4G2209 | 07/22/2024 | 07/24/2024 |
|-------|----|------|------|----|---------|------------|------------|

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|------|-------|-------|---|--------|------------|------------|
| Calcium | 1.43 | 0.499 | meq/L | " | [CALC] | 07/22/2024 | 07/24/2024 |
| Magnesium | ND | 0.823 | " | " | " | " | " |
| Sodium | ND | 0.435 | " | " | " | " | " |

pH in Soil by 9045D

| | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|
| pH | 8.56 | | pH Units | 1 | B4G2221 | 07/22/2024 | 07/24/2024 |
|----|------|--|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|-------|--------|-----|---|---------|------------|------------|
| SAR | 0.201 | 0.0100 | SAR | 1 | B4G2215 | 07/22/2024 | 07/24/2024 |
|-----|-------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 0.217 | 0.00500 | mmhos/cm | 1 | B4G2221 | 07/22/2024 | 07/23/2024 |
|---------------------------|-------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

| | | | | | | | |
|---------|------|--------|-------|----|---------|------------|------------|
| Arsenic | 2.62 | 0.280 | mg/kg | 10 | B4G1950 | 07/22/2024 | 07/25/2024 |
| Barium | 170 | 9.66 | " | " | " | " | " |
| Cadmium | ND | 0.0966 | " | " | " | " | " |

Origins Laboratory

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ORIGINS LABORATORY

Quandary Consultants
2252 Emerson St.
Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG14@3'
7/2/2024 12:10:00PM

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

Origins Laboratory Y407478-27 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|----------|------|--|--------|-------|----|---------|------------|------------|---|
| Copper | ND | | 9.66 | mg/kg | 10 | B4G1950 | 07/22/2024 | 07/25/2024 | |
| Lead | 10.1 | | 0.966 | " | " | " | " | " | " |
| Nickel | 11.8 | | 0.966 | " | " | " | " | " | " |
| Selenium | ND | | 0.251 | " | " | " | " | " | " |
| Silver | ND | | 0.0966 | " | " | " | " | " | " |
| Zinc | 43.8 | | 35.7 | " | " | " | " | " | " |

Total Metals by 7196A

| | | | | | | | | | |
|---------------------|-------|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | 0.205 | 0.123 | 0.307 | mg/kg dry | 1 | 2648402 | 07/31/2024 | 08/01/2024 | J |
|---------------------|-------|-------|-------|-----------|---|---------|------------|------------|---|

Origins Laboratory



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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG14@6'
7/2/2024 12:13:00PM

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

Origins Laboratory
Y407478-28 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | | |
|-------|-------|--------|------|---|---------|------------|------------|--|
| Boron | 0.145 | 0.0989 | mg/L | 1 | B4G2209 | 07/22/2024 | 07/23/2024 | |
|-------|-------|--------|------|---|---------|------------|------------|--|

Metals by Saturated Paste by EPA 6010

| | | | | | | | | |
|-----------|-------|-------|-------|----|--------|------------|------------|--|
| Calcium | 0.934 | 0.499 | meq/L | 10 | [CALC] | 07/22/2024 | 07/24/2024 | |
| Magnesium | ND | 0.823 | " | " | " | " | " | |
| Sodium | 0.870 | 0.435 | " | " | " | " | " | |

pH in Soil by 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.48 | | pH Units | 1 | B4G2221 | 07/22/2024 | 07/24/2024 | |
|----|------|--|----------|---|---------|------------|------------|--|

SAR by 20B Saturated Paste

| | | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|--|
| SAR | 1.02 | 0.0100 | SAR | 1 | B4G2215 | 07/22/2024 | 07/24/2024 | |
|-----|------|--------|-----|---|---------|------------|------------|--|

Specific Conductance Mod. 9050A

| | | | | | | | | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.237 | 0.00500 | mmhos/cm | 1 | B4G2221 | 07/22/2024 | 07/23/2024 | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | |
|---------|-------|--------|-------|----|---------|------------|------------|--|
| Arsenic | 6.42 | 0.280 | mg/kg | 10 | B4G1950 | 07/22/2024 | 07/25/2024 | |
| Barium | 281 | 9.66 | " | " | " | " | " | |
| Cadmium | 0.195 | 0.0966 | " | " | " | " | " | |
| Copper | 10.5 | 9.66 | " | " | " | " | " | |

Origins Laboratory

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ORIGINS LABORATORY

Quandary Consultants
2252 Emerson St.
Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG14@6'
7/2/2024 12:13:00PM

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

Origins Laboratory Y407478-28 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|----------|------|--|--------|-------|----|---------|------------|------------|---|
| Lead | 10.2 | | 0.966 | mg/kg | 10 | B4G1950 | 07/22/2024 | 07/25/2024 | |
| Nickel | 14.7 | | 0.966 | " | " | " | " | " | " |
| Selenium | ND | | 0.251 | " | " | " | " | " | " |
| Silver | ND | | 0.0966 | " | " | " | " | " | " |
| Zinc | 42.8 | | 35.7 | " | " | " | " | " | " |

Total Metals by 7196A

| | | | | | | | | | |
|---------------------|-------|--------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | 0.113 | 0.0999 | 0.250 | mg/kg dry | 1 | 2648402 | 07/31/2024 | 08/01/2024 | J |
|---------------------|-------|--------|-------|-----------|---|---------|------------|------------|---|

Origins Laboratory



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Quandary Consultants
2252 Emerson St.
Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG14@12'
7/2/2024 12:16:00PM

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

Origins Laboratory
Y407478-29 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | |
|-------|-------|-------|------|---|---------|------------|------------|
| Boron | 0.404 | 0.100 | mg/L | 1 | B4G2209 | 07/22/2024 | 07/23/2024 |
|-------|-------|-------|------|---|---------|------------|------------|

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|-------|-------|-------|----|--------|------------|------------|
| Calcium | 0.840 | 0.499 | meq/L | 10 | [CALC] | 07/22/2024 | 07/24/2024 |
| Magnesium | ND | 0.823 | " | " | " | " | " |
| Sodium | 1.90 | 0.435 | " | " | " | " | " |

pH in Soil by 9045D

| | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|
| pH | 8.57 | | pH Units | 1 | B4G2221 | 07/22/2024 | 07/24/2024 |
|----|------|--|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|
| SAR | 2.41 | 0.0100 | SAR | 1 | B4G2215 | 07/22/2024 | 07/24/2024 |
|-----|------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 0.309 | 0.00500 | mmhos/cm | 1 | B4G2221 | 07/22/2024 | 07/23/2024 |
|---------------------------|-------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

| | | | | | | | |
|---------|-------|--------|-------|----|---------|------------|------------|
| Arsenic | 6.33 | 0.267 | mg/kg | 10 | B4G1950 | 07/22/2024 | 07/25/2024 |
| Barium | 424 | 9.20 | " | " | " | " | " |
| Cadmium | 0.182 | 0.0920 | " | " | " | " | " |
| Copper | 10.7 | 9.20 | " | " | " | " | " |

Origins Laboratory



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ORIGINS LABORATORY

Quandary Consultants
2252 Emerson St.
Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG14@12'
7/2/2024 12:16:00PM

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

Origins Laboratory
Y407478-29 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|----------|------|--|--------|-------|----|---------|------------|------------|---|
| Lead | 9.89 | | 0.920 | mg/kg | 10 | B4G1950 | 07/22/2024 | 07/25/2024 | |
| Nickel | 15.6 | | 0.920 | " | " | " | " | " | " |
| Selenium | ND | | 0.239 | " | " | " | " | " | " |
| Silver | ND | | 0.0920 | " | " | " | " | " | " |
| Zinc | 42.1 | | 34.0 | " | " | " | " | " | " |

Total Metals by 7196A

| | | | | | | | | | |
|---------------------|-------|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | 0.184 | 0.131 | 0.329 | mg/kg dry | 1 | 2648402 | 07/31/2024 | 08/01/2024 | J |
|---------------------|-------|-------|-------|-----------|---|---------|------------|------------|---|

Origins Laboratory



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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG14@18'
7/2/2024 12:22:00PM

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

Origins Laboratory
Y407478-30 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | | |
|-------|-------|-------|------|---|---------|------------|------------|--|
| Boron | 0.291 | 0.101 | mg/L | 1 | B4G2209 | 07/22/2024 | 07/23/2024 | |
|-------|-------|-------|------|---|---------|------------|------------|--|

Metals by Saturated Paste by EPA 6010

| | | | | | | | | |
|-----------|-------|-------|-------|----|--------|------------|------------|--|
| Calcium | 0.838 | 0.499 | meq/L | 10 | [CALC] | 07/22/2024 | 07/24/2024 | |
| Magnesium | ND | 0.823 | " | " | " | " | " | |
| Sodium | 1.94 | 0.435 | " | " | " | " | " | |

pH in Soil by 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.54 | | pH Units | 1 | B4G2221 | 07/22/2024 | 07/24/2024 | |
|----|------|--|----------|---|---------|------------|------------|--|

SAR by 20B Saturated Paste

| | | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|--|
| SAR | 2.56 | 0.0100 | SAR | 1 | B4G2215 | 07/22/2024 | 07/24/2024 | |
|-----|------|--------|-----|---|---------|------------|------------|--|

Specific Conductance Mod. 9050A

| | | | | | | | | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.316 | 0.00500 | mmhos/cm | 1 | B4G2221 | 07/22/2024 | 07/23/2024 | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | |
|---------|-------|--------|-------|----|---------|------------|------------|--|
| Arsenic | 5.50 | 0.267 | mg/kg | 10 | B4G1950 | 07/22/2024 | 07/25/2024 | |
| Barium | 156 | 9.22 | " | " | " | " | " | |
| Cadmium | 0.153 | 0.0922 | " | " | " | " | " | |
| Copper | 10.6 | 9.22 | " | " | " | " | " | |

Origins Laboratory

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Quandary Consultants
2252 Emerson St.
Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: REI H9-32D&33D&UPRC 9-12J5

FL-BG14@18'
7/2/2024 12:22:00PM

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

Origins Laboratory
Y407478-30 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|----------|------|--|--------|-------|----|---------|------------|------------|--|
| Lead | 10.0 | | 0.922 | mg/kg | 10 | B4G1950 | 07/22/2024 | 07/25/2024 | |
| Nickel | 25.1 | | 0.922 | " | " | " | " | " | |
| Selenium | ND | | 0.240 | " | " | " | " | " | |
| Silver | ND | | 0.0922 | " | " | " | " | " | |
| Zinc | 44.4 | | 34.1 | " | " | " | " | " | |

Total Metals by 7196A

| | | | | | | | | | |
|---------------------|-------|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | 0.161 | 0.115 | 0.287 | mg/kg dry | 1 | 2648402 | 07/31/2024 | 08/01/2024 | J |
|---------------------|-------|-------|-------|-----------|---|---------|------------|------------|---|

Origins Laboratory

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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

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

Batch B4G1948 - EPA 3050B

Prepared: 07/19/2024 Analyzed: 07/24/2024

Blank (B4G1948-BLK1)

| | | | | | | | | | | |
|----------|----|-------|-------|--|--|--|--|--|--|--|
| Arsenic | ND | 0.290 | mg/kg | | | | | | | |
| Barium | ND | 10.0 | " | | | | | | | |
| Cadmium | ND | 0.100 | " | | | | | | | |
| Copper | ND | 10.0 | " | | | | | | | |
| Lead | ND | 1.00 | " | | | | | | | |
| Nickel | ND | 1.00 | " | | | | | | | |
| Selenium | ND | 0.260 | " | | | | | | | |
| Silver | ND | 0.100 | " | | | | | | | |
| Zinc | ND | 37.0 | " | | | | | | | |

LCS (B4G1948-BS1)

Prepared: 07/19/2024 Analyzed: 07/24/2024

| | | | | | | | | | | |
|----------|------|-------|-------|------|--|-----|--------|--|--|--|
| Arsenic | 5.61 | 0.290 | mg/kg | 5.00 | | 112 | 80-120 | | | |
| Barium | 573 | 10.0 | " | 500 | | 115 | 80-120 | | | |
| Cadmium | 5.65 | 0.100 | " | 5.00 | | 113 | 80-120 | | | |
| Copper | 56.2 | 10.0 | " | 50.0 | | 112 | 80-120 | | | |
| Lead | 5.82 | 1.00 | " | 5.00 | | 116 | 80-120 | | | |
| Nickel | 5.55 | 1.00 | " | 5.00 | | 111 | 80-120 | | | |
| Selenium | 5.37 | 0.260 | " | 5.00 | | 107 | 80-120 | | | |
| Silver | 5.52 | 0.100 | " | 5.00 | | 110 | 80-120 | | | |
| Zinc | 55.9 | 37.0 | " | 50.0 | | 112 | 80-120 | | | |

Matrix Spike (B4G1948-MS1)

Source: Y407478-01

Prepared: 07/19/2024 Analyzed: 07/24/2024

| | | | | | | | | | | |
|---------|------|--------|-------|------|-------|------|--------|--|--|--|
| Arsenic | 11.6 | 0.285 | mg/kg | 4.91 | 6.53 | 103 | 75-125 | | | |
| Barium | 606 | 9.81 | " | 491 | 95.5 | 104 | 75-125 | | | |
| Cadmium | 5.54 | 0.0981 | " | 4.91 | 0.173 | 109 | 75-125 | | | |
| Copper | 58.0 | 9.81 | " | 49.1 | 7.33 | 103 | 75-125 | | | |
| Lead | 14.9 | 0.981 | " | 4.91 | 11.0 | 79.9 | 75-125 | | | |

Origins Laboratory

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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

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

Batch B4G1948 - EPA 3050B

Matrix Spike (B4G1948-MS1)

Source: Y407478-01

Prepared: 07/19/2024 Analyzed: 07/24/2024

| | | | | | | | | | | |
|----------|------|--------|-------|------|--------|-----|--------|--|--|--|
| Nickel | 21.6 | 0.981 | mg/kg | 4.91 | 16.4 | 105 | 75-125 | | | |
| Selenium | 5.03 | 0.255 | " | 4.91 | 0.0958 | 101 | 75-125 | | | |
| Silver | 5.47 | 0.0981 | " | 4.91 | 0.0418 | 111 | 75-125 | | | |
| Zinc | 86.9 | 36.3 | " | 49.1 | 36.3 | 103 | 75-125 | | | |

Matrix Spike Dup (B4G1948-MSD1)

Source: Y407478-01

Prepared: 07/19/2024 Analyzed: 07/24/2024

| | | | | | | | | | | |
|----------|------|--------|-------|------|--------|------|--------|------|----|-------|
| Arsenic | 10.5 | 0.267 | mg/kg | 4.60 | 6.53 | 86.2 | 75-125 | 9.89 | 20 | |
| Barium | 569 | 9.20 | " | 460 | 95.5 | 103 | 75-125 | 6.28 | 20 | |
| Cadmium | 5.42 | 0.0920 | " | 4.60 | 0.173 | 114 | 75-125 | 2.28 | 20 | |
| Copper | 55.0 | 9.20 | " | 46.0 | 7.33 | 104 | 75-125 | 5.32 | 20 | |
| Lead | 14.4 | 0.920 | " | 4.60 | 11.0 | 73.1 | 75-125 | 3.79 | 20 | QM-07 |
| Nickel | 20.6 | 0.920 | " | 4.60 | 16.4 | 90.5 | 75-125 | 4.68 | 20 | |
| Selenium | 4.45 | 0.239 | " | 4.60 | 0.0958 | 94.6 | 75-125 | 12.4 | 20 | |
| Silver | 5.32 | 0.0920 | " | 4.60 | 0.0418 | 115 | 75-125 | 2.73 | 20 | |
| Zinc | 81.8 | 34.0 | " | 46.0 | 36.3 | 99.1 | 75-125 | 6.06 | 20 | |

Batch B4G1950 - EPA 3050B

Blank (B4G1950-BLK1)

Prepared: 07/22/2024 Analyzed: 07/25/2024

| | | | | | | | | | | |
|----------|----|-------|-------|--|--|--|--|--|--|--|
| Arsenic | ND | 0.290 | mg/kg | | | | | | | |
| Barium | ND | 10.0 | " | | | | | | | |
| Cadmium | ND | 0.100 | " | | | | | | | |
| Copper | ND | 10.0 | " | | | | | | | |
| Lead | ND | 1.00 | " | | | | | | | |
| Nickel | ND | 1.00 | " | | | | | | | |
| Selenium | ND | 0.260 | " | | | | | | | |
| Silver | ND | 0.100 | " | | | | | | | |

Origins Laboratory

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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

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

Batch B4G1950 - EPA 3050B

Prepared: 07/22/2024 Analyzed: 07/25/2024

Blank (B4G1950-BLK1)

Zinc ND 37.0 mg/kg

LCS (B4G1950-BS1)

Prepared: 07/22/2024 Analyzed: 07/25/2024

| | | | | | | | | | | |
|----------|------|-------|-------|------|--|------|--------|--|--|--|
| Arsenic | 5.27 | 0.290 | mg/kg | 5.00 | | 105 | 80-120 | | | |
| Barium | 511 | 10.0 | " | 500 | | 102 | 80-120 | | | |
| Cadmium | 5.20 | 0.100 | " | 5.00 | | 104 | 80-120 | | | |
| Copper | 50.9 | 10.0 | " | 50.0 | | 102 | 80-120 | | | |
| Lead | 5.37 | 1.00 | " | 5.00 | | 107 | 80-120 | | | |
| Nickel | 5.17 | 1.00 | " | 5.00 | | 103 | 80-120 | | | |
| Selenium | 5.28 | 0.260 | " | 5.00 | | 106 | 80-120 | | | |
| Silver | 4.99 | 0.100 | " | 5.00 | | 99.8 | 80-120 | | | |
| Zinc | 52.8 | 37.0 | " | 50.0 | | 106 | 80-120 | | | |

Matrix Spike (B4G1950-MS1)

Source: Y407478-21

Prepared: 07/22/2024 Analyzed: 07/25/2024

| | | | | | | | | | | |
|----------|------|--------|-------|------|--------|------|--------|--|--|--|
| Arsenic | 13.0 | 0.259 | mg/kg | 4.47 | 7.99 | 113 | 75-125 | | | |
| Barium | 632 | 8.93 | " | 447 | 209 | 94.8 | 75-125 | | | |
| Cadmium | 5.03 | 0.0893 | " | 4.47 | 0.217 | 108 | 75-125 | | | |
| Copper | 61.3 | 8.93 | " | 44.7 | 14.6 | 105 | 75-125 | | | |
| Lead | 17.2 | 0.893 | " | 4.47 | 11.9 | 118 | 75-125 | | | |
| Nickel | 21.3 | 0.893 | " | 4.47 | 16.3 | 111 | 75-125 | | | |
| Selenium | 5.05 | 0.232 | " | 4.47 | 0.207 | 108 | 75-125 | | | |
| Silver | 4.65 | 0.0893 | " | 4.47 | 0.0152 | 104 | 75-125 | | | |
| Zinc | 105 | 33.1 | " | 44.7 | 55.6 | 111 | 75-125 | | | |

Matrix Spike Dup (B4G1950-MSD1)

Source: Y407478-21

Prepared: 07/22/2024 Analyzed: 07/25/2024

| | | | | | | | | | | |
|---------|------|-------|-------|------|------|------|--------|------|----|--|
| Arsenic | 12.1 | 0.248 | mg/kg | 4.27 | 7.99 | 95.7 | 75-125 | 7.62 | 20 | |
| Barium | 593 | 8.54 | " | 427 | 209 | 89.9 | 75-125 | 6.49 | 20 | |

Origins Laboratory

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Jordan A. Bynon For Jen Pellegrini, Project Manager



Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

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

Batch B4G1950 - EPA 3050B

Matrix Spike Dup (B4G1950-MSD1)

Source: Y407478-21

Prepared: 07/22/2024 Analyzed: 07/25/2024

| | | | | | | | | | | |
|----------|------|--------|-------|------|--------|------|--------|------|----|--|
| Cadmium | 4.63 | 0.0854 | mg/kg | 4.27 | 0.217 | 103 | 75-125 | 8.37 | 20 | |
| Copper | 55.7 | 8.54 | " | 42.7 | 14.6 | 96.3 | 75-125 | 9.55 | 20 | |
| Lead | 16.0 | 0.854 | " | 4.27 | 11.9 | 95.8 | 75-125 | 7.13 | 20 | |
| Nickel | 20.2 | 0.854 | " | 4.27 | 16.3 | 92.4 | 75-125 | 4.96 | 20 | |
| Selenium | 4.45 | 0.222 | " | 4.27 | 0.207 | 99.4 | 75-125 | 12.6 | 20 | |
| Silver | 4.12 | 0.0854 | " | 4.27 | 0.0152 | 96.2 | 75-125 | 12.0 | 20 | |
| Zinc | 98.0 | 31.6 | " | 42.7 | 55.6 | 99.4 | 75-125 | 7.10 | 20 | |

Origins Laboratory

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Jordan A. Bynon For Jen Pellegrini, Project Manager



Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

Classical Chemistry Parameters - Quality Control
Origins Laboratory

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

Batch B4G2207 - DTPA Sorbitol Preparation

Prepared: 07/22/2024 Analyzed: 07/23/2024

Blank (B4G2207-BLK1)

Boron ND 0.100 mg/L

Duplicate (B4G2207-DUP1)

Source: Y407478-01

Prepared: 07/22/2024 Analyzed: 07/23/2024

Boron 0.258 0.0997 mg/L

0.233 10.3 50

Batch B4G2208 - DTPA Sorbitol Preparation

Prepared: 07/22/2024 Analyzed: 07/23/2024

Blank (B4G2208-BLK1)

Boron ND 0.100 mg/L

Duplicate (B4G2208-DUP1)

Source: Y407478-05

Prepared: 07/22/2024 Analyzed: 07/23/2024

Boron 0.877 0.0998 mg/L

0.867 1.11 50

Batch B4G2209 - DTPA Sorbitol Preparation

Prepared: 07/22/2024 Analyzed: 07/23/2024

Blank (B4G2209-BLK1)

Boron ND 0.100 mg/L

Duplicate (B4G2209-DUP1)

Source: Y407478-25

Prepared: 07/22/2024 Analyzed: 07/23/2024

Boron 0.247 0.0998 mg/L

0.248 0.333 50

Batch B4G2214 - Saturated Paste Metals

Prepared: 07/22/2024 Analyzed: 07/24/2024

Blank (B4G2214-BLK1)

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Origins Laboratory

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Jordan A. Bynon For Jen Pellegrini, Project Manager



Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

Classical Chemistry Parameters - Quality Control
Origins Laboratory

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

Batch B4G2214 - Saturated Paste Metals

Duplicate (B4G2214-DUP1)

Source: Y407459-01

Prepared: 07/22/2024 Analyzed: 07/24/2024

| | | | | | | | | | | |
|---------------|------|--------|------|--|------|--|--|------|-----|--|
| Calcium PPM | 26.9 | 10.0 | mg/L | | 25.6 | | | 5.07 | 50 | |
| SAR | ND | 0.0100 | SAR | | 2.35 | | | | 200 | |
| Magnesium PPM | 5.86 | 10.0 | mg/L | | 6.17 | | | 5.15 | 50 | |
| Sodium PPM | 49.8 | 10.0 | " | | 51.0 | | | 2.22 | 50 | |

Batch B4G2215 - Saturated Paste Metals

Blank (B4G2215-BLK1)

Prepared: 07/22/2024 Analyzed: 07/24/2024

| | | | | | | | | | | |
|---------------|----|--------|------|--|--|--|--|--|--|--|
| Calcium PPM | ND | 10.0 | mg/L | | | | | | | |
| SAR | ND | 0.0100 | SAR | | | | | | | |
| Magnesium PPM | ND | 10.0 | mg/L | | | | | | | |
| Sodium PPM | ND | 10.0 | " | | | | | | | |

Duplicate (B4G2215-DUP1)

Source: Y407478-14

Prepared: 07/22/2024 Analyzed: 07/24/2024

| | | | | | | | | | | |
|---------------|------|--------|------|--|------|--|--|------|-----|--|
| Calcium PPM | 6.70 | 10.0 | mg/L | | 7.02 | | | 4.66 | 50 | |
| SAR | ND | 0.0100 | SAR | | 4.42 | | | | 200 | |
| Magnesium PPM | 1.73 | 10.0 | mg/L | | 1.89 | | | 8.84 | 50 | |
| Sodium PPM | 50.0 | 10.0 | " | | 51.1 | | | 2.22 | 50 | |

Batch B4G2411 - Saturated Paste Metals

Blank (B4G2411-BLK1)

Prepared: 07/24/2024 Analyzed: 07/25/2024

| | | | | | | | | | | |
|---------------|----|--------|------|--|--|--|--|--|--|--|
| Calcium PPM | ND | 10.0 | mg/L | | | | | | | |
| SAR | ND | 0.0100 | SAR | | | | | | | |
| Magnesium PPM | ND | 10.0 | mg/L | | | | | | | |
| Sodium PPM | ND | 10.0 | " | | | | | | | |

Origins Laboratory

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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

Classical Chemistry Parameters - Quality Control
Origins Laboratory

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

Batch B4G2411 - Saturated Paste Metals

Duplicate (B4G2411-DUP1)

Source: Y407478-24

Prepared: 07/24/2024 Analyzed: 07/25/2024

| | | | | | | | | | | |
|---------------|------|--------|------|--|-------|--|--|------|-----|--|
| Calcium PPM | 35.9 | 10.0 | mg/L | | 34.7 | | | 3.48 | 50 | |
| SAR | ND | 0.0100 | SAR | | 0.121 | | | | 200 | |
| Magnesium PPM | 6.52 | 10.0 | mg/L | | 4.90 | | | 28.4 | 50 | |
| Sodium PPM | 3.17 | 10.0 | " | | 2.88 | | | 9.59 | 50 | |

Origins Laboratory

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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

Saturated Paste - Quality Control
Origins Laboratory

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

Batch B4G2220 - Saturated Paste pH/EC

Prepared: 07/22/2024 Analyzed: 07/23/2024

Blank (B4G2220-BLK1)

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4G2220-DUP1)

Source: Y407459-01

Prepared: 07/22/2024 Analyzed: 07/23/2024

Specific Conductance (EC) 0.620 0.00500 mmhos/cm 0.612 1.19 25

pH 8.37 pH Units 8.45 0.951 25

Batch B4G2221 - Saturated Paste pH/EC

Prepared: 07/22/2024 Analyzed: 07/23/2024

Blank (B4G2221-BLK1)

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4G2221-DUP1)

Source: Y407478-14

Prepared: 07/22/2024 Analyzed: 07/23/2024

pH 8.62 pH Units 8.62 0.00 25

Specific Conductance (EC) 0.266 0.00500 mmhos/cm 0.275 3.11 25

Batch B4G2416 - Saturated Paste pH/EC

Prepared: 07/24/2024 Analyzed: 07/25/2024

Blank (B4G2416-BLK1)

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4G2416-DUP1)

Source: Y407478-24

Prepared: 07/24/2024 Analyzed: 07/25/2024

pH 7.97 pH Units 8.08 1.37 25

Specific Conductance (EC) 0.247 0.00500 mmhos/cm 0.232 6.26 25

Origins Laboratory

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Quandary Consultants
2252 Emerson St.
Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: REI H9-32D&33D&UPRC 9-12J5

Total Metals by 7196 A - Quality Control GEL Laboratories, LLC

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

Batch 2648400 - SW846 3060A

BLANK (1205805126-BLK)

Prepared: 07/31/2024 Analyzed: 08/01/2024

| | | | | | | | | | | |
|---------------------|----|-------|-------|--|--|--|--|--|--|---|
| Hexavalent Chromium | ND | 0.228 | mg/kg | | | | | | | U |
|---------------------|----|-------|-------|--|--|--|--|--|--|---|

LCS (1205805127-BKS)

Prepared: 07/31/2024 Analyzed: 08/01/2024

| | | | | | | | | | | |
|---------------------|------|-------|-------|------|--|-----|--------|--|--|--|
| Hexavalent Chromium | 2.44 | 0.243 | mg/kg | 2.43 | | 100 | 80-120 | | | |
|---------------------|------|-------|-------|------|--|-----|--------|--|--|--|

DUP (1205805128 D)

Source: 677518001

Prepared: 07/31/2024 Analyzed: 08/01/2024

| | | | | | | | | | | |
|---------------------|----|-------|-----------|--|--------|--|------|-----|----|---|
| Hexavalent Chromium | ND | 0.455 | mg/kg dry | | <0.182 | | 0-50 | N/A | 50 | U |
|---------------------|----|-------|-----------|--|--------|--|------|-----|----|---|

MS (1205805129 S)

Source: 677518001

Prepared: 07/31/2024 Analyzed: 08/01/2024

| | | | | | | | | | | |
|---------------------|------|-------|-----------|------|--------|------|--------|--|--|--|
| Hexavalent Chromium | 2.95 | 0.391 | mg/kg dry | 3.91 | <0.157 | 71.3 | 75-125 | | | |
|---------------------|------|-------|-----------|------|--------|------|--------|--|--|--|

DUP (1205805130 D)

Source: Y407478-12

Prepared: 07/31/2024 Analyzed: 08/01/2024

| | | | | | | | | | | |
|---------------------|----|-------|-----------|--|-------|--|------|-----|----|---|
| Hexavalent Chromium | ND | 0.405 | mg/kg dry | | 0.182 | | 0-50 | N/A | 50 | U |
|---------------------|----|-------|-----------|--|-------|--|------|-----|----|---|

MS (1205805131 S)

Source: Y407478-12

Prepared: 07/31/2024 Analyzed: 08/01/2024

| | | | | | | | | | | |
|---------------------|------|-------|-----------|------|-------|------|--------|--|--|--|
| Hexavalent Chromium | 2.38 | 0.397 | mg/kg dry | 3.97 | 0.182 | 55.5 | 75-125 | | | |
|---------------------|------|-------|-----------|------|-------|------|--------|--|--|--|

ILCS (1205805132-ILCS)

Prepared: 07/31/2024 Analyzed: 08/01/2024

| | | | | | | | | | | |
|---------------------|------|-------|-------|------|--|-----|--------|--|--|--|
| Hexavalent Chromium | 6.18 | 0.298 | mg/kg | 6.02 | | 103 | 80-120 | | | |
|---------------------|------|-------|-------|------|--|-----|--------|--|--|--|

Origins Laboratory



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Quandary Consultants
 2252 Emerson St.
 Denver CO 80205

Mike Dinkel
 Project Number: [none]
 Project: REI H9-32D&33D&UPRC 9-12J5

Total Metals by 7196A - Quality Control
GEL Laboratories, LLC

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

Batch 2648402 - SW846 3060A

BLANK (1205805133-BLK)

Prepared: 07/31/2024 Analyzed: 08/01/2024

| | | | | | | | | | | |
|---------------------|----|-------|-------|--|--|--|--|--|--|---|
| Hexavalent Chromium | ND | 0.390 | mg/kg | | | | | | | U |
|---------------------|----|-------|-------|--|--|--|--|--|--|---|

LCS (1205805134-BKS)

Prepared: 07/31/2024 Analyzed: 08/01/2024

| | | | | | | | | | | |
|---------------------|------|-------|-------|------|--|------|--------|--|--|--|
| Hexavalent Chromium | 2.56 | 0.257 | mg/kg | 2.57 | | 99.3 | 80-120 | | | |
|---------------------|------|-------|-------|------|--|------|--------|--|--|--|

DUP (1205805135 D)

Source: Y407478-28

Prepared: 07/31/2024 Analyzed: 08/01/2024

| | | | | | | | | | | |
|---------------------|----|-------|-----------|--|-------|--|------|-----|----|---|
| Hexavalent Chromium | ND | 0.250 | mg/kg dry | | 0.113 | | 0-50 | N/A | 50 | U |
|---------------------|----|-------|-----------|--|-------|--|------|-----|----|---|

MS (1205805136 S)

Source: Y407478-28

Prepared: 07/31/2024 Analyzed: 08/01/2024

| | | | | | | | | | | |
|---------------------|------|-------|-----------|------|-------|------|--------|--|--|--|
| Hexavalent Chromium | 3.35 | 0.389 | mg/kg dry | 3.89 | 0.113 | 83.3 | 75-125 | | | |
|---------------------|------|-------|-----------|------|-------|------|--------|--|--|--|

ILCS (1205805139-ILCS)

Prepared: 07/31/2024 Analyzed: 08/01/2024

| | | | | | | | | | | |
|---------------------|------|-------|-------|------|--|-----|--------|--|--|--|
| Hexavalent Chromium | 6.74 | 0.327 | mg/kg | 6.63 | | 102 | 80-120 | | | |
|---------------------|------|-------|-------|------|--|-----|--------|--|--|--|

Origins Laboratory

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Jordan A. Bynon For Jen Pellegrini, Project Manager

Quandary Consultants
2252 Emerson St.
Denver CO 80205

Mike Dinkel
Project Number: [none]
Project: REI H9-32D&33D&UPRC 9-12J5

Notes and Definitions

- U Result not detected above the detection limit
 - QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
 - J Greater than the detection limit but less than the reporting limit
 - ND Analyte NOT DETECTED at or above the reporting limit
 - RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

Origins Laboratory



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