



February 21, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Russell 12-31 Wellhead Project Number - 09A1417564

Attached are your analytical results for KMG - Russell 12-31 Wellhead received by Origins Laboratory, Inc. February 08, 2024. This project is associated with Origins project number Y402217-01.

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, Inc.
303.433.1322
o-squad@oelabinc.com



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

Ensolom
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417564
Project: KMG - Russell 12-31 Wellhead

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|----------------|---------------|--------|------------------------|------------------|
| NATIVE-BG04@3' | Y402217-01 | Soil | February 8, 2024 14:20 | 02/08/2024 16:53 |
| NATIVE-BG04@6' | Y402217-02 | Soil | February 8, 2024 14:22 | 02/08/2024 16:53 |
| NATIVE-BG05@3' | Y402217-03 | Soil | February 8, 2024 14:24 | 02/08/2024 16:53 |
| NATIVE-BG05@6' | Y402217-04 | Soil | February 8, 2024 14:26 | 02/08/2024 16:53 |
| NATIVE-BG06@3' | Y402217-05 | Soil | February 8, 2024 14:28 | 02/08/2024 16:53 |
| NATIVE-BG06@6' | Y402217-06 | Soil | February 8, 2024 14:29 | 02/08/2024 16:53 |
| WH01-RISER@4' | Y402217-07 | Soil | February 8, 2024 14:30 | 02/08/2024 16:53 |

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

| Sample ID/Description | Date Sampled | Time Sampled | # of Containers | Preservative | | | Matrix | Analysis | | | Sample Instructions |
|-----------------------|--------------|--------------|-----------------|--------------|------------------|-------|--------|----------|---------|--------|---------------------|
| | | | | HCl | HNO ₃ | Other | | Lead | Arsenic | Barium | |
| WATLIVE-B06E-31 | 2/18/24 | 1400 | 2 | | | | X | X | X | | |
| WATLIVE-B06E-6 | | 1403 | 1 | | | | X | X | X | | |
| WATLIVE-B06E-31 | | 1404 | 1 | | | | X | X | X | | |
| WATLIVE-B06E-6 | | 1406 | 1 | | | | X | X | X | | |
| WATLIVE-B06E-31 | | 1408 | 1 | | | | X | X | X | | |
| WATLIVE-B06E-6 | | 1409 | 1 | | | | X | X | X | | |
| WATLIVE-B06E-31 | | 1430 | 1 | | | | X | X | X | | |

Relinquished By: [Signature] Date: 2/18/24 Time: 10:53
 Received By: [Signature] Date: 2/19/24 Time: 10:53
 Temp Received: 7
 Date Results Needed: [Blank]

Client: Ensolum
 Project Manager: J. Espinoza
 Address: [Blank]
 Project Name: Russell 12-31 Wellhead
 Telephone Number: [Blank]
 Project Number: 09A1417564
 Email Address: KMGTEAM
 Samples Collected By: HR

ORIGINS LABORATORY, INC
 1725 Elk Place
 440217
 www.originslab.com
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LABORATORY, INC

Ensolom
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417564
 Project: KMG - Russell 12-31 Wellhead

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

Sample Receipt Checklist


Origins Work Order: 74 02217 Client: Ensolom
 Client Project ID: Russell 12-31

Checklist Completed by: EHS Shipped Via: HO
 Date/time completed: 2/8/24 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1/8 °C / _____ °C / _____ °C (Describe) _____ °C
 Thermometer ID: 7004

| 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"/> | <input checked="" type="checkbox"/> | | SD |
| Is there ice present (document if blue ice is used)? | <input checked="" type="checkbox"/> | <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"/> | <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"/> | <input checked="" type="checkbox"/> | | |
| Were all samples received intact ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| Was adequate sample volume provided ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <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"/> | <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 subcooled analysis 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"/> | <input checked="" type="checkbox"/> | | |
| Additional Comments (if any): | | | | |

⁽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 in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) Jeremy Espinoza Date/Time Reviewed 2/8/24

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Ensolom
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417564
Project: KMG - Russell 12-31 Wellhead

NATIVE-BG04@3'
2/8/2024 2:20:00PM

| Analyte | Result | Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y402217-01 (Soil)

pH in Soil by 9045D

| | | | | | | | | | |
|----|------|--|----------|---|---------|-----|------------|------------|--|
| pH | 8.59 | | pH Units | 1 | B4B0916 | ACN | 02/09/2024 | 02/10/2024 | |
|----|------|--|----------|---|---------|-----|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|---------|------|--------|-------|----|---------|-----|------------|------------|--|
| Arsenic | 7.16 | 0.0951 | mg/kg | 10 | B4B0830 | ZZZ | 02/09/2024 | 02/14/2024 | |
| Barium | 209 | 9.51 | " | " | " | ZZZ | " | " | |
| Lead | 11.2 | 0.951 | " | " | " | ZZZ | " | " | |

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Jeremy Espinoza
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Project: KMG - Russell 12-31 Wellhead

NATIVE-BG04@6'
2/8/2024 2:22:00PM

| Analyte | Result | Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y402217-02 (Soil)

pH in Soil by 9045D

| | | | | | | | | | |
|----|------|--|----------|---|---------|-----|------------|------------|--|
| pH | 8.46 | | pH Units | 1 | B4B0916 | ACN | 02/09/2024 | 02/10/2024 | |
|----|------|--|----------|---|---------|-----|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|---------|------|--------|-------|----|---------|-----|------------|------------|--|
| Arsenic | 5.33 | 0.0971 | mg/kg | 10 | B4B0830 | ZZZ | 02/09/2024 | 02/14/2024 | |
| Barium | 98.2 | 9.71 | " | " | " | ZZZ | " | " | |
| Lead | 6.72 | 0.971 | " | " | " | ZZZ | " | " | |

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Jeremy Espinoza
Project Number: 09A1417564
Project: KMG - Russell 12-31 Wellhead

NATIVE-BG05@3'
2/8/2024 2:24:00PM

| Analyte | Result | Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y402217-03 (Soil)

pH in Soil by 9045D

| | | | | | | | | | |
|----|------|--|----------|---|---------|-----|------------|------------|--|
| pH | 8.33 | | pH Units | 1 | B4B0916 | ACN | 02/09/2024 | 02/10/2024 | |
|----|------|--|----------|---|---------|-----|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|---------|------|--------|-------|----|---------|-----|------------|------------|--|
| Arsenic | 6.33 | 0.0932 | mg/kg | 10 | B4B0830 | ZZZ | 02/09/2024 | 02/14/2024 | |
| Barium | 117 | 9.32 | " | " | " | ZZZ | " | " | |
| Lead | 10.7 | 0.932 | " | " | " | ZZZ | " | " | |

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Jeremy Espinoza

Project Number: 09A1417564

Project: KMG - Russell 12-31 Wellhead

NATIVE-BG05@6'

2/8/2024 2:26:00PM

Reporting

| Analyte | Result | Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.

Y402217-04 (Soil)

pH in Soil by 9045D

| | | | | | | | | | |
|----|------|--|----------|---|---------|-----|------------|------------|--|
| pH | 8.35 | | pH Units | 1 | B4B0916 | ACN | 02/09/2024 | 02/10/2024 | |
|----|------|--|----------|---|---------|-----|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|---------|------|--------|-------|----|---------|-----|------------|------------|--|
| Arsenic | 9.62 | 0.0963 | mg/kg | 10 | B4B0830 | ZZZ | 02/09/2024 | 02/14/2024 | |
| Barium | 55.4 | 9.63 | " | " | " | ZZZ | " | " | |
| Lead | 7.80 | 0.963 | " | " | " | ZZZ | " | " | |

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Jeremy Espinoza
 Project Number: 09A1417564
 Project: KMG - Russell 12-31 Wellhead

NATIVE-BG06@3'
2/8/2024 2:28:00PM

| Analyte | Result | Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-------|-------|----------|-------|---------|----------|----------|-------|


Origins Laboratory, Inc.
Y402217-05 (Soil)

pH in Soil by 9045D

| | | | | | | | | | |
|----|------|--|----------|---|---------|-----|------------|------------|--|
| pH | 8.56 | | pH Units | 1 | B4B0916 | ACN | 02/09/2024 | 02/10/2024 | |
|----|------|--|----------|---|---------|-----|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|---------|------|--------|-------|----|---------|-----|------------|------------|--|
| Arsenic | 8.19 | 0.0921 | mg/kg | 10 | B4B0830 | ZZZ | 02/09/2024 | 02/14/2024 | |
| Barium | 147 | 9.21 | " | " | " | ZZZ | " | " | |
| Lead | 12.4 | 0.921 | " | " | " | ZZZ | " | " | |

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 Project: KMG - Russell 12-31 Wellhead

NATIVE-BG06@6'
2/8/2024 2:29:00PM

| Analyte | Result | Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-------|-------|----------|-------|---------|----------|----------|-------|


Origins Laboratory, Inc.
Y402217-06 (Soil)

pH in Soil by 9045D

| | | | | | | | | | |
|----|------|--|----------|---|---------|-----|------------|------------|--|
| pH | 8.45 | | pH Units | 1 | B4B0916 | ACN | 02/09/2024 | 02/10/2024 | |
|----|------|--|----------|---|---------|-----|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|---------|------|--------|-------|----|---------|-----|------------|------------|--|
| Arsenic | 4.98 | 0.0877 | mg/kg | 10 | B4B0830 | ZZZ | 02/09/2024 | 02/14/2024 | |
| Barium | 64.8 | 8.77 | " | " | " | ZZZ | " | " | |
| Lead | 5.71 | 0.877 | " | " | " | ZZZ | " | " | |

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Jeremy Espinoza

Project Number: 09A1417564
Project: KMG - Russell 12-31 Wellhead

WH01-RISER@4'

2/8/2024 2:30:00PM

Reporting

| Analyte | Result | Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y402217-07 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|------|------|-------|-------|----|---------|-----|------------|------------|--|
| Lead | 8.54 | 0.914 | mg/kg | 10 | B4B0830 | ZZZ | 02/09/2024 | 02/14/2024 | |
|------|------|-------|-------|----|---------|-----|------------|------------|--|

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 Project: KMG - Russell 12-31 Wellhead

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

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

Batch B4B0830 - EPA 3050B

Blank (B4B0830-BLK1)

Prepared: 02/08/2024 Analyzed: 02/16/2024

| | | | | | | | | | | |
|---------|----|--------|-------|--|--|--|--|--|--|--|
| Arsenic | ND | 0.0100 | mg/kg | | | | | | | |
| Barium | ND | 1.00 | " | | | | | | | |
| Lead | ND | 0.100 | " | | | | | | | |

LCS (B4B0830-BS1)

Prepared: 02/08/2024 Analyzed: 02/16/2024

| | | | | | | | | | | |
|---------|------|--------|-------|------|--|------|--------|--|--|--|
| Arsenic | 4.95 | 0.0100 | mg/kg | 5.00 | | 98.9 | 80-120 | | | |
| Barium | 479 | 1.00 | " | 500 | | 95.7 | 80-120 | | | |
| Lead | 5.03 | 0.100 | " | 5.00 | | 101 | 80-120 | | | |

Matrix Spike (B4B0830-MS1)

Source: Y402193-01

Prepared: 02/08/2024 Analyzed: 02/16/2024


| | | | | | | | | | | |
|---------|------|--------|-------|------|------|------|--------|--|--|-------|
| Arsenic | 10.1 | 0.0850 | mg/kg | 4.25 | 3.17 | 162 | 75-125 | | | QM-07 |
| Barium | 947 | 8.50 | " | 425 | 575 | 87.5 | 75-125 | | | |
| Lead | 12.4 | 0.850 | " | 4.25 | 7.50 | 115 | 75-125 | | | QM-07 |

Matrix Spike Dup (B4B0830-MSD1)

Source: Y402193-01

Prepared: 02/08/2024 Analyzed: 02/16/2024

| | | | | | | | | | | |
|---------|------|--------|-------|------|------|------|--------|-------|----|-------|
| Arsenic | 10.0 | 0.0905 | mg/kg | 4.52 | 3.17 | 151 | 75-125 | 0.499 | 20 | QM-07 |
| Barium | 991 | 9.05 | " | 452 | 575 | 92.0 | 75-125 | 4.57 | 20 | |
| Lead | 15.1 | 0.905 | " | 4.52 | 7.50 | 168 | 75-125 | 19.8 | 20 | QM-07 |

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Jeremy Espinoza

Project Number: 09A1417564

Project: KMG - Russell 12-31 Wellhead

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Table with 11 columns: Analyte, Result, Reporting Limit, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Notes

Batch B4B0916 - Saturated Paste pH/EC

Duplicate (B4B0916-DUP1)

Source: Y402170-01

Prepared: 02/09/2024 Analyzed: 02/10/2024

pH 8.43 pH Units 8.46 0.355 25

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Jeremy Espinoza

Project Number: 09A1417564

Project: KMG - Russell 12-31 Wellhead

Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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