



March 13, 2024

**KP Kauffman Co. Inc.**

**John Peterson**

**1700 Lincoln St #4550**

**Denver CO 80203**

**Project Name - Klein 24-8 Flowline**

**Project Number - [none]**

Attached are your analytical results for Klein 24-8 Flowline received by Origins Laboratory, Inc. February 23, 2024. This project is associated with Origins project number Y402579-01.

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

KP Kauffman Co. Inc.  
 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled           | Date Received    |
|-----------|---------------|--------|------------------------|------------------|
| Source@2' | Y402579-01    | Soil   | February 23, 2024 8:45 | 02/23/2024 11:20 |
| BG@0'     | Y402579-02    | Soil   | February 23, 2024 9:00 | 02/23/2024 11:20 |
| SS-1      | Y402579-03    | Soil   | February 23, 2024 9:30 | 02/23/2024 11:20 |
| SS-2      | Y402579-04    | Soil   | February 23, 2024 9:35 | 02/23/2024 11:20 |
| SS-3      | Y402579-05    | Soil   | February 23, 2024 9:40 | 02/23/2024 11:20 |
| BG-2      | Y402579-06    | Soil   | February 23, 2024 9:45 | 02/23/2024 11:20 |
| BG-3      | Y402579-07    | Soil   | February 23, 2024 9:50 | 02/23/2024 11:20 |
| BG-4      | Y402579-08    | Soil   | February 23, 2024 9:55 | 02/23/2024 11:20 |

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 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4402579 Client: KPK  
 Client Project ID: Klein 24-8  
 Checklist Completed by: TST Shipped Via: HD  
 Date/time completed: 2/23/24 (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, 10 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)  
 Thermometer ID: 1004

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

<sup>(1)</sup>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) [Signature] Date/Time Reviewed 2/26/24

Origins Laboratory, Inc.

[Signature]

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KP Kauffman Co. Inc.  
 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**Source@2'**  
**2/23/2024 8:45:00AM**

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

**Origins Laboratory, Inc.**  
**Y402579-01 (Soil)**

**Boron (DTPA Sorbitol)**

|       |       |  |        |      |   |         |            |            |  |
|-------|-------|--|--------|------|---|---------|------------|------------|--|
| Boron | 0.160 |  | 0.0998 | mg/L | 1 | B4C0111 | 03/01/2024 | 03/05/2024 |  |
|-------|-------|--|--------|------|---|---------|------------|------------|--|

**DRO/ORO by EPA 8015D**

|                                   |      |  |      |       |   |         |            |            |  |
|-----------------------------------|------|--|------|-------|---|---------|------------|------------|--|
| Diesel (C10-C28)                  | 63.0 |  | 25.0 | mg/kg | 1 | B4B2701 | 02/27/2024 | 03/01/2024 |  |
| Residual Range Organics (C28-C40) | 214  |  | 100  | "     | " | "       | "          | "          |  |

|                        |        |  |        |  |  |   |   |   |  |
|------------------------|--------|--|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 67.1 % |  | 50-150 |  |  | " | " | " |  |
|------------------------|--------|--|--------|--|--|---|---|---|--|

**GBTEX+TMBs by 8260D**

|                             |    |  |         |       |   |         |            |            |   |
|-----------------------------|----|--|---------|-------|---|---------|------------|------------|---|
| 1,2,4-Trimethylbenzene      | ND |  | 0.00200 | mg/kg | 1 | B4B2412 | 02/24/2024 | 02/25/2024 | U |
| 1,3,5-Trimethylbenzene      | ND |  | 0.00200 | "     | " | "       | "          | "          | U |
| Benzene                     | ND |  | 0.00200 | "     | " | "       | "          | "          | U |
| Ethylbenzene                | ND |  | 0.00200 | "     | " | "       | "          | "          | U |
| Toluene                     | ND |  | 0.00200 | "     | " | "       | "          | "          | U |
| Xylenes, total              | ND |  | 0.00200 | "     | " | "       | "          | "          | U |
| Gasoline Range Hydrocarbons | ND |  | 0.200   | "     | " | "       | "          | "          | U |

|                                  |       |  |        |  |  |   |   |   |  |
|----------------------------------|-------|--|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 124 % |  | 70-130 |  |  | " | " | " |  |
| Surrogate: Toluene-d8            | 111 % |  | 70-130 |  |  | " | " | " |  |

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 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**Source@2'**  
**2/23/2024 8:45:00AM**

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

**Origins Laboratory, Inc.**  
**Y402579-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene 134 % 70-130 B4B24 12 02/24/2024 02/25/2024 GC

**Metals by Saturated Paste by EPA 6010**

|           |       |       |       |    |        |            |            |
|-----------|-------|-------|-------|----|--------|------------|------------|
| Calcium   | 2.37  | 0.499 | meq/L | 10 | [CALC] | 02/26/2024 | 02/29/2024 |
| Magnesium | ND    | 0.823 | "     | "  | "      | "          | "          |
| Sodium    | 0.458 | 0.435 | "     | "  | "      | "          | "          |

**PAH by EPA 8270E**

|                         |       |       |       |   |         |            |            |
|-------------------------|-------|-------|-------|---|---------|------------|------------|
| 1-Methylnaphthalene     | 0.013 | 0.002 | mg/kg | 1 | B4B2822 | 02/28/2024 | 02/29/2024 |
| 2-Methylnaphthalene     | 0.022 | 0.002 | "     | " | "       | "          | "          |
| Acenaphthene            | ND    | 0.020 | "     | " | "       | "          | U          |
| Anthracene              | ND    | 0.020 | "     | " | "       | "          | U          |
| Benzo (a) anthracene    | ND    | 0.005 | "     | " | "       | "          | U          |
| Benzo (a) pyrene        | ND    | 0.020 | "     | " | "       | "          | U          |
| Benzo (b) fluoranthene  | ND    | 0.020 | "     | " | "       | "          | U          |
| Benzo (k) fluoranthene  | ND    | 0.020 | "     | " | "       | "          | U          |
| Chrysene                | ND    | 0.020 | "     | " | "       | "          | U          |
| Dibenz (a,h) anthracene | ND    | 0.020 | "     | " | "       | "          | U          |
| Fluoranthene            | ND    | 0.020 | "     | " | "       | "          | U          |
| Fluorene                | ND    | 0.020 | "     | " | "       | "          | U          |

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**Source@2'**  
**2/23/2024 8:45:00AM**

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

**Origins Laboratory, Inc.**  
**Y402579-01 (Soil)**

**PAH by EPA 8270E**

|                          |              |  |       |       |   |         |            |            |   |
|--------------------------|--------------|--|-------|-------|---|---------|------------|------------|---|
| Indeno (1,2,3-cd) pyrene | ND           |  | 0.020 | mg/kg | 1 | B4B2822 | 02/28/2024 | 02/29/2024 | U |
| Naphthalene              | <b>0.004</b> |  | 0.002 | "     | " | "       | "          | "          |   |
| Pyrene                   | ND           |  | 0.020 | "     | " | "       | "          | "          | U |

|                                 |        |  |        |  |  |   |   |   |  |
|---------------------------------|--------|--|--------|--|--|---|---|---|--|
| Surrogate: Fluorene-d10         | 101 %  |  | 60-130 |  |  | " | " | " |  |
| Surrogate: Anthracene-d10       | 95.5 % |  | 60-130 |  |  | " | " | " |  |
| Surrogate: Pyrene-d10           | 83.2 % |  | 60-130 |  |  | " | " | " |  |
| Surrogate: Benzo (a) pyrene-d12 | 97.7 % |  | 60-130 |  |  | " | " | " |  |

**pH in Soil by 9045D**

|    |             |  |  |          |   |         |            |            |  |
|----|-------------|--|--|----------|---|---------|------------|------------|--|
| pH | <b>8.26</b> |  |  | pH Units | 1 | B4B2614 | 02/26/2024 | 02/27/2024 |  |
|----|-------------|--|--|----------|---|---------|------------|------------|--|

**SAR by 20B Saturated Paste**

|     |              |  |        |     |   |         |            |            |  |
|-----|--------------|--|--------|-----|---|---------|------------|------------|--|
| SAR | <b>0.378</b> |  | 0.0100 | SAR | 1 | B4B2605 | 02/26/2024 | 02/29/2024 |  |
|-----|--------------|--|--------|-----|---|---------|------------|------------|--|

**Specific Conductance Mod. 9050A**

|                           |              |  |         |          |   |         |            |            |  |
|---------------------------|--------------|--|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | <b>0.388</b> |  | 0.00500 | mmhos/cm | 1 | B4B2614 | 02/26/2024 | 02/27/2024 |  |
|---------------------------|--------------|--|---------|----------|---|---------|------------|------------|--|

**Table 915 metals by EPA 6020B**

|         |             |  |       |       |    |         |            |            |  |
|---------|-------------|--|-------|-------|----|---------|------------|------------|--|
| Arsenic | <b>1.11</b> |  | 0.259 | mg/kg | 10 | B4B2349 | 02/23/2024 | 03/10/2024 |  |
|---------|-------------|--|-------|-------|----|---------|------------|------------|--|

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John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**Source@2'**  
**2/23/2024 8:45:00AM**

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

**Origins Laboratory, Inc.**  
**Y402579-01 (Soil)**

**Table 915 metals by EPA 6020B**

|          |       |  |        |       |    |         |            |            |  |
|----------|-------|--|--------|-------|----|---------|------------|------------|--|
| Barium   | 32.1  |  | 8.94   | mg/kg | 10 | B4B2349 | 02/23/2024 | 03/10/2024 |  |
| Cadmium  | 0.106 |  | 0.0894 | "     | "  | "       | "          | "          |  |
| Copper   | ND    |  | 8.94   | "     | "  | "       | "          | "          |  |
| Lead     | 6.51  |  | 0.894  | "     | "  | "       | "          | "          |  |
| Nickel   | 3.14  |  | 0.894  | "     | "  | "       | "          | "          |  |
| Selenium | ND    |  | 0.232  | "     | "  | "       | "          | "          |  |
| Silver   | ND    |  | 0.0894 | "     | "  | "       | "          | "          |  |
| Zinc     | ND    |  | 33.1   | "     | "  | "       | "          | "          |  |

**Total Metals by 7196A**

|                      |    |       |     |       |   |         |            |            |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|
| Chromium, Hexavalent | ND | 0.244 | 0.5 | mg/Kg | 1 | L737337 | 02/23/2024 | 03/08/2024 |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|

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 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**BG@0'**  
**2/23/2024 9:00:00AM**

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

**Origins Laboratory, Inc.**  
**Y402579-02 (Soil)**

**Boron (DTPA Sorbitol)**

|       |       |  |        |      |   |         |            |            |  |
|-------|-------|--|--------|------|---|---------|------------|------------|--|
| Boron | 0.104 |  | 0.0997 | mg/L | 1 | B4C0111 | 03/01/2024 | 03/05/2024 |  |
|-------|-------|--|--------|------|---|---------|------------|------------|--|

**DRO/ORO by EPA 8015D**

|                                   |    |  |      |       |   |         |            |            |   |
|-----------------------------------|----|--|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | ND |  | 25.0 | mg/kg | 1 | B4B2701 | 02/27/2024 | 03/01/2024 | U |
| Residual Range Organics (C28-C40) | ND |  | 100  | "     | " | "       | "          | "          | U |

|                        |        |  |        |  |  |   |   |   |  |
|------------------------|--------|--|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 71.6 % |  | 50-150 |  |  | " | " | " |  |
|------------------------|--------|--|--------|--|--|---|---|---|--|

**GBTEX+TMBs by 8260D**

|                             |    |  |         |       |   |         |            |            |   |
|-----------------------------|----|--|---------|-------|---|---------|------------|------------|---|
| 1,2,4-Trimethylbenzene      | ND |  | 0.00200 | mg/kg | 1 | B4B2412 | 02/24/2024 | 02/25/2024 | U |
| 1,3,5-Trimethylbenzene      | ND |  | 0.00200 | "     | " | "       | "          | "          | U |
| Benzene                     | ND |  | 0.00200 | "     | " | "       | "          | "          | U |
| Ethylbenzene                | ND |  | 0.00200 | "     | " | "       | "          | "          | U |
| Toluene                     | ND |  | 0.00200 | "     | " | "       | "          | "          | U |
| Xylenes, total              | ND |  | 0.00200 | "     | " | "       | "          | "          | U |
| Gasoline Range Hydrocarbons | ND |  | 0.200   | "     | " | "       | "          | "          | U |

|                                  |       |  |        |  |  |   |   |   |  |
|----------------------------------|-------|--|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 126 % |  | 70-130 |  |  | " | " | " |  |
|----------------------------------|-------|--|--------|--|--|---|---|---|--|

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 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**BG@0'**  
**2/23/2024 9:00:00AM**

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

**Origins Laboratory, Inc.**  
**Y402579-02 (Soil)**

**GBTEX+TMBs by 8260D**

|                                 |       |        |  |  |  |             |            |            |      |
|---------------------------------|-------|--------|--|--|--|-------------|------------|------------|------|
| Surrogate: Toluene-d8           | 110 % | 70-130 |  |  |  | B4B24<br>12 | 02/24/2024 | 02/25/2024 |      |
| Surrogate: 4-Bromofluorobenzene | 134 % | 70-130 |  |  |  | "           | "          | "          | S-GC |

**Metals by Saturated Paste by EPA 6010**

|           |       |       |       |    |        |   |            |            |  |
|-----------|-------|-------|-------|----|--------|---|------------|------------|--|
| Calcium   | 0.905 | 0.499 | meq/L | 10 | [CALC] |   | 02/26/2024 | 02/29/2024 |  |
| Magnesium | ND    | 0.823 | "     | "  | "      | " | "          | "          |  |
| Sodium    | ND    | 0.435 | "     | "  | "      | " | "          | "          |  |

**PAH by EPA 8270E**

|                         |    |       |       |   |         |   |            |            |   |
|-------------------------|----|-------|-------|---|---------|---|------------|------------|---|
| 1-Methylnaphthalene     | ND | 0.002 | mg/kg | 1 | B4B2822 |   | 02/28/2024 | 02/29/2024 | U |
| 2-Methylnaphthalene     | ND | 0.002 | "     | " | "       | " | "          | "          | U |
| Acenaphthene            | ND | 0.020 | "     | " | "       | " | "          | "          | U |
| Anthracene              | ND | 0.020 | "     | " | "       | " | "          | "          | U |
| Benzo (a) anthracene    | ND | 0.005 | "     | " | "       | " | "          | "          | U |
| Benzo (a) pyrene        | ND | 0.020 | "     | " | "       | " | "          | "          | U |
| Benzo (b) fluoranthene  | ND | 0.020 | "     | " | "       | " | "          | "          | U |
| Benzo (k) fluoranthene  | ND | 0.020 | "     | " | "       | " | "          | "          | U |
| Chrysene                | ND | 0.020 | "     | " | "       | " | "          | "          | U |
| Dibenz (a,h) anthracene | ND | 0.020 | "     | " | "       | " | "          | "          | U |
| Fluoranthene            | ND | 0.020 | "     | " | "       | " | "          | "          | U |

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KP Kauffman Co. Inc.  
 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**BG@0'**  
**2/23/2024 9:00:00AM**

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

**Origins Laboratory, Inc.**  
**Y402579-02 (Soil)**

**PAH by EPA 8270E**

|                          |    |  |       |       |   |         |            |            |   |
|--------------------------|----|--|-------|-------|---|---------|------------|------------|---|
| Fluorene                 | ND |  | 0.020 | mg/kg | 1 | B4B2822 | 02/28/2024 | 02/29/2024 | U |
| Indeno (1,2,3-cd) pyrene | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Naphthalene              | ND |  | 0.002 | "     | " | "       | "          | "          | U |
| Pyrene                   | ND |  | 0.020 | "     | " | "       | "          | "          | U |

|                                 |        |  |        |  |  |   |   |   |  |
|---------------------------------|--------|--|--------|--|--|---|---|---|--|
| Surrogate: Fluorene-d10         | 97.2 % |  | 60-130 |  |  | " | " | " |  |
| Surrogate: Anthracene-d10       | 95.3 % |  | 60-130 |  |  | " | " | " |  |
| Surrogate: Pyrene-d10           | 102 %  |  | 60-130 |  |  | " | " | " |  |
| Surrogate: Benzo (a) pyrene-d12 | 102 %  |  | 60-130 |  |  | " | " | " |  |

**pH in Soil by 9045D**

|    |      |  |  |          |   |         |            |            |  |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 7.82 |  |  | pH Units | 1 | B4B2614 | 02/26/2024 | 02/27/2024 |  |
|----|------|--|--|----------|---|---------|------------|------------|--|

**SAR by 20B Saturated Paste**

|     |        |  |        |     |   |         |            |            |  |
|-----|--------|--|--------|-----|---|---------|------------|------------|--|
| SAR | 0.0546 |  | 0.0100 | SAR | 1 | B4B2605 | 02/26/2024 | 02/29/2024 |  |
|-----|--------|--|--------|-----|---|---------|------------|------------|--|

**Specific Conductance Mod. 9050A**

|                           |       |  |         |          |   |         |            |            |  |
|---------------------------|-------|--|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.171 |  | 0.00500 | mmhos/cm | 1 | B4B2614 | 02/26/2024 | 02/27/2024 |  |
|---------------------------|-------|--|---------|----------|---|---------|------------|------------|--|

**Table 915 metals by EPA 6020B**

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KP Kauffman Co. Inc.  
 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**BG@0'**  
**2/23/2024 9:00:00AM**

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

**Origins Laboratory, Inc.**  
**Y402579-02 (Soil)**

**Table 915 metals by EPA 6020B**

|          |       |  |        |       |    |         |            |            |  |
|----------|-------|--|--------|-------|----|---------|------------|------------|--|
| Arsenic  | 0.767 |  | 0.270  | mg/kg | 10 | B4B2349 | 02/23/2024 | 03/10/2024 |  |
| Barium   | 45.2  |  | 9.32   | "     | "  | "       | "          | "          |  |
| Cadmium  | 0.107 |  | 0.0932 | "     | "  | "       | "          | "          |  |
| Copper   | ND    |  | 9.32   | "     | "  | "       | "          | "          |  |
| Lead     | 5.45  |  | 0.932  | "     | "  | "       | "          | "          |  |
| Nickel   | 2.34  |  | 0.932  | "     | "  | "       | "          | "          |  |
| Selenium | ND    |  | 0.242  | "     | "  | "       | "          | "          |  |
| Silver   | ND    |  | 0.0932 | "     | "  | "       | "          | "          |  |
| Zinc     | ND    |  | 34.5   | "     | "  | "       | "          | "          |  |

**Total Metals by 7196A**

|                      |    |       |     |       |   |         |            |            |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|
| Chromium, Hexavalent | ND | 0.244 | 0.5 | mg/Kg | 1 | L737337 | 02/23/2024 | 03/08/2024 |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|

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 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**SS-1**

**2/23/2024 9:30:00AM**

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

**Origins Laboratory, Inc.**  
**Y402579-03 (Soil)**

**Boron (DTPA Sorbitol)**

|       |       |  |        |      |   |         |            |            |  |
|-------|-------|--|--------|------|---|---------|------------|------------|--|
| Boron | 0.284 |  | 0.0999 | mg/L | 1 | B4C0111 | 03/01/2024 | 03/05/2024 |  |
|-------|-------|--|--------|------|---|---------|------------|------------|--|

**DRO/ORO by EPA 8015D**

|                                   |    |  |      |       |   |         |            |            |   |
|-----------------------------------|----|--|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | ND |  | 25.0 | mg/kg | 1 | B4B2701 | 02/27/2024 | 03/03/2024 | U |
| Residual Range Organics (C28-C40) | ND |  | 100  | "     | " | "       | "          | "          | U |

|                        |        |  |        |  |  |   |   |   |  |
|------------------------|--------|--|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 81.7 % |  | 50-150 |  |  | " | " | " |  |
|------------------------|--------|--|--------|--|--|---|---|---|--|

**GBTEX+TMBs by 8260D**

|                             |    |  |         |       |   |         |            |            |   |
|-----------------------------|----|--|---------|-------|---|---------|------------|------------|---|
| 1,2,4-Trimethylbenzene      | ND |  | 0.00200 | mg/kg | 1 | B4B2412 | 02/24/2024 | 02/25/2024 | U |
| 1,3,5-Trimethylbenzene      | ND |  | 0.00200 | "     | " | "       | "          | "          | U |
| Benzene                     | ND |  | 0.00200 | "     | " | "       | "          | "          | U |
| Ethylbenzene                | ND |  | 0.00200 | "     | " | "       | "          | "          | U |
| Toluene                     | ND |  | 0.00200 | "     | " | "       | "          | "          | U |
| Xylenes, total              | ND |  | 0.00200 | "     | " | "       | "          | "          | U |
| Gasoline Range Hydrocarbons | ND |  | 0.200   | "     | " | "       | "          | "          | U |

|                                  |       |  |        |  |  |   |   |   |  |
|----------------------------------|-------|--|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 128 % |  | 70-130 |  |  | " | " | " |  |
|----------------------------------|-------|--|--------|--|--|---|---|---|--|

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KP Kauffman Co. Inc.  
 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**SS-1**

**2/23/2024 9:30:00AM**

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

**Origins Laboratory, Inc.**  
**Y402579-03 (Soil)**

**GBTEX+TMBs by 8260D**

|                                 |       |  |        |  |  |             |            |            |      |
|---------------------------------|-------|--|--------|--|--|-------------|------------|------------|------|
| Surrogate: Toluene-d8           | 110 % |  | 70-130 |  |  | B4B24<br>12 | 02/24/2024 | 02/25/2024 |      |
| Surrogate: 4-Bromofluorobenzene | 132 % |  | 70-130 |  |  | "           | "          | "          | S-GC |

**Metals by Saturated Paste by EPA 6010**

|           |      |  |       |       |    |        |            |            |  |
|-----------|------|--|-------|-------|----|--------|------------|------------|--|
| Calcium   | 3.02 |  | 0.499 | meq/L | 10 | [CALC] | 02/26/2024 | 02/29/2024 |  |
| Magnesium | ND   |  | 0.823 | "     | "  | "      | "          | "          |  |
| Sodium    | ND   |  | 0.435 | "     | "  | "      | "          | "          |  |

**PAH by EPA 8270E**

|                         |    |  |       |       |   |         |            |            |   |
|-------------------------|----|--|-------|-------|---|---------|------------|------------|---|
| 1-Methylnaphthalene     | ND |  | 0.002 | mg/kg | 1 | B4B2822 | 02/28/2024 | 02/29/2024 | U |
| 2-Methylnaphthalene     | ND |  | 0.002 | "     | " | "       | "          | "          | U |
| Acenaphthene            | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Anthracene              | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Benzo (a) anthracene    | ND |  | 0.005 | "     | " | "       | "          | "          | U |
| Benzo (a) pyrene        | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Benzo (b) fluoranthene  | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Benzo (k) fluoranthene  | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Chrysene                | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Dibenz (a,h) anthracene | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Fluoranthene            | ND |  | 0.020 | "     | " | "       | "          | "          | U |

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 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**SS-1**

**2/23/2024 9:30:00AM**

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

**Origins Laboratory, Inc.**  
**Y402579-03 (Soil)**

**PAH by EPA 8270E**

|                          |    |  |       |       |   |         |            |            |   |
|--------------------------|----|--|-------|-------|---|---------|------------|------------|---|
| Fluorene                 | ND |  | 0.020 | mg/kg | 1 | B4B2822 | 02/28/2024 | 02/29/2024 | U |
| Indeno (1,2,3-cd) pyrene | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Naphthalene              | ND |  | 0.002 | "     | " | "       | "          | "          | U |
| Pyrene                   | ND |  | 0.020 | "     | " | "       | "          | "          | U |

|                                 |        |  |        |  |  |   |   |   |  |
|---------------------------------|--------|--|--------|--|--|---|---|---|--|
| Surrogate: Fluorene-d10         | 98.2 % |  | 60-130 |  |  | " | " | " |  |
| Surrogate: Anthracene-d10       | 95.9 % |  | 60-130 |  |  | " | " | " |  |
| Surrogate: Pyrene-d10           | 91.1 % |  | 60-130 |  |  | " | " | " |  |
| Surrogate: Benzo (a) pyrene-d12 | 101 %  |  | 60-130 |  |  | " | " | " |  |

**pH in Soil by 9045D**

|    |      |  |  |          |   |         |            |            |  |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 7.95 |  |  | pH Units | 1 | B4B2615 | 02/26/2024 | 02/27/2024 |  |
|----|------|--|--|----------|---|---------|------------|------------|--|

**SAR by 20B Saturated Paste**

|     |        |  |        |     |   |         |            |            |  |
|-----|--------|--|--------|-----|---|---------|------------|------------|--|
| SAR | 0.0420 |  | 0.0100 | SAR | 1 | B4B2606 | 02/26/2024 | 02/29/2024 |  |
|-----|--------|--|--------|-----|---|---------|------------|------------|--|

**Specific Conductance Mod. 9050A**

|                           |       |  |         |          |   |         |            |            |  |
|---------------------------|-------|--|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.463 |  | 0.00500 | mmhos/cm | 1 | B4B2615 | 02/26/2024 | 02/27/2024 |  |
|---------------------------|-------|--|---------|----------|---|---------|------------|------------|--|

**Table 915 metals by EPA 6020B**

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 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**SS-1**

**2/23/2024 9:30:00AM**

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

**Origins Laboratory, Inc.**  
**Y402579-03 (Soil)**

**Table 915 metals by EPA 6020B**

|          |       |        |       |    |         |            |            |  |
|----------|-------|--------|-------|----|---------|------------|------------|--|
| Arsenic  | 1.60  | 0.285  | mg/kg | 10 | B4B2349 | 02/23/2024 | 03/10/2024 |  |
| Barium   | 32.8  | 9.82   | "     | "  | "       | "          | "          |  |
| Cadmium  | 0.125 | 0.0982 | "     | "  | "       | "          | "          |  |
| Copper   | ND    | 9.82   | "     | "  | "       | "          | "          |  |
| Lead     | 6.71  | 0.982  | "     | "  | "       | "          | "          |  |
| Nickel   | 3.36  | 0.982  | "     | "  | "       | "          | "          |  |
| Selenium | ND    | 0.255  | "     | "  | "       | "          | "          |  |
| Silver   | ND    | 0.0982 | "     | "  | "       | "          | "          |  |
| Zinc     | ND    | 36.3   | "     | "  | "       | "          | "          |  |

**Total Metals by 7196A**

|                      |    |       |     |       |   |         |            |            |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|
| Chromium, Hexavalent | ND | 0.244 | 0.5 | mg/Kg | 1 | L737337 | 02/23/2024 | 03/08/2024 |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|

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 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**SS-2**

**2/23/2024 9:35:00AM**

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

**Origins Laboratory, Inc.**  
**Y402579-04 (Soil)**

**Boron (DTPA Sorbitol)**

|       |       |  |        |      |   |         |            |            |  |
|-------|-------|--|--------|------|---|---------|------------|------------|--|
| Boron | 0.284 |  | 0.0996 | mg/L | 1 | B4C0111 | 03/01/2024 | 03/05/2024 |  |
|-------|-------|--|--------|------|---|---------|------------|------------|--|

**DRO/ORO by EPA 8015D**

|                                   |      |  |      |       |   |         |            |            |  |
|-----------------------------------|------|--|------|-------|---|---------|------------|------------|--|
| Diesel (C10-C28)                  | 54.9 |  | 25.0 | mg/kg | 1 | B4B2701 | 02/27/2024 | 03/04/2024 |  |
| Residual Range Organics (C28-C40) | 155  |  | 100  | "     | " | "       | "          | "          |  |

|                        |        |  |        |  |  |   |   |   |  |
|------------------------|--------|--|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 64.9 % |  | 50-150 |  |  | " | " | " |  |
|------------------------|--------|--|--------|--|--|---|---|---|--|

**GBTEX+TMBs by 8260D**

|                             |         |  |         |       |   |         |            |            |   |
|-----------------------------|---------|--|---------|-------|---|---------|------------|------------|---|
| 1,2,4-Trimethylbenzene      | 0.00486 |  | 0.00200 | mg/kg | 1 | B4B2412 | 02/24/2024 | 02/25/2024 |   |
| 1,3,5-Trimethylbenzene      | ND      |  | 0.00200 | "     | " | "       | "          | "          | U |
| Benzene                     | ND      |  | 0.00200 | "     | " | "       | "          | "          | U |
| Ethylbenzene                | ND      |  | 0.00200 | "     | " | "       | "          | "          | U |
| Toluene                     | ND      |  | 0.00200 | "     | " | "       | "          | "          | U |
| Xylenes, total              | 0.0239  |  | 0.00200 | "     | " | "       | "          | "          |   |
| Gasoline Range Hydrocarbons | ND      |  | 0.200   | "     | " | "       | "          | "          | U |

|                                  |       |  |        |  |  |   |   |   |  |
|----------------------------------|-------|--|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 125 % |  | 70-130 |  |  | " | " | " |  |
| Surrogate: Toluene-d8            | 110 % |  | 70-130 |  |  | " | " | " |  |

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 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**SS-2**  
**2/23/2024 9:35:00AM**

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

**Origins Laboratory, Inc.**  
**Y402579-04 (Soil)**

**GBTEX+TMBs by 8260D**

|                                 |       |        |  |  |  |             |            |            |    |
|---------------------------------|-------|--------|--|--|--|-------------|------------|------------|----|
| Surrogate: 4-Bromofluorobenzene | 135 % | 70-130 |  |  |  | B4B24<br>12 | 02/24/2024 | 02/25/2024 | GC |
|---------------------------------|-------|--------|--|--|--|-------------|------------|------------|----|

**Metals by Saturated Paste by EPA 6010**

|           |      |       |       |    |        |   |            |            |  |
|-----------|------|-------|-------|----|--------|---|------------|------------|--|
| Calcium   | 4.16 | 0.499 | meq/L | 10 | [CALC] |   | 02/26/2024 | 02/29/2024 |  |
| Magnesium | 1.15 | 0.823 | "     | "  | "      | " | "          | "          |  |
| Sodium    | ND   | 0.435 | "     | "  | "      | " | "          | "          |  |

**PAH by EPA 8270E**

|                         |       |       |       |   |         |   |            |            |   |
|-------------------------|-------|-------|-------|---|---------|---|------------|------------|---|
| 1-Methylnaphthalene     | 0.011 | 0.002 | mg/kg | 1 | B4B2822 |   | 02/28/2024 | 02/29/2024 |   |
| 2-Methylnaphthalene     | 0.018 | 0.002 | "     | " | "       | " | "          | "          |   |
| Acenaphthene            | ND    | 0.020 | "     | " | "       | " | "          | "          | U |
| Anthracene              | ND    | 0.020 | "     | " | "       | " | "          | "          | U |
| Benzo (a) anthracene    | ND    | 0.005 | "     | " | "       | " | "          | "          | U |
| Benzo (a) pyrene        | ND    | 0.020 | "     | " | "       | " | "          | "          | U |
| Benzo (b) fluoranthene  | ND    | 0.020 | "     | " | "       | " | "          | "          | U |
| Benzo (k) fluoranthene  | ND    | 0.020 | "     | " | "       | " | "          | "          | U |
| Chrysene                | ND    | 0.020 | "     | " | "       | " | "          | "          | U |
| Dibenz (a,h) anthracene | ND    | 0.020 | "     | " | "       | " | "          | "          | U |
| Fluoranthene            | ND    | 0.020 | "     | " | "       | " | "          | "          | U |
| Fluorene                | ND    | 0.020 | "     | " | "       | " | "          | "          | U |

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 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**SS-2**

**2/23/2024 9:35:00AM**

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

**Origins Laboratory, Inc.**  
**Y402579-04 (Soil)**

**PAH by EPA 8270E**

|                          |              |  |       |       |   |         |            |            |   |
|--------------------------|--------------|--|-------|-------|---|---------|------------|------------|---|
| Indeno (1,2,3-cd) pyrene | ND           |  | 0.020 | mg/kg | 1 | B4B2822 | 02/28/2024 | 02/29/2024 | U |
| Naphthalene              | <b>0.005</b> |  | 0.002 | "     | " | "       | "          | "          |   |
| Pyrene                   | ND           |  | 0.020 | "     | " | "       | "          | "          | U |

|                                 |        |  |        |  |  |   |   |   |  |
|---------------------------------|--------|--|--------|--|--|---|---|---|--|
| Surrogate: Fluorene-d10         | 98.3 % |  | 60-130 |  |  | " | " | " |  |
| Surrogate: Anthracene-d10       | 96.5 % |  | 60-130 |  |  | " | " | " |  |
| Surrogate: Pyrene-d10           | 83.2 % |  | 60-130 |  |  | " | " | " |  |
| Surrogate: Benzo (a) pyrene-d12 | 101 %  |  | 60-130 |  |  | " | " | " |  |

**pH in Soil by 9045D**

|    |             |  |  |          |   |         |            |            |  |
|----|-------------|--|--|----------|---|---------|------------|------------|--|
| pH | <b>8.12</b> |  |  | pH Units | 1 | B4B2615 | 02/26/2024 | 02/27/2024 |  |
|----|-------------|--|--|----------|---|---------|------------|------------|--|

**SAR by 20B Saturated Paste**

|     |              |  |        |     |   |         |            |            |  |
|-----|--------------|--|--------|-----|---|---------|------------|------------|--|
| SAR | <b>0.150</b> |  | 0.0100 | SAR | 1 | B4B2606 | 02/26/2024 | 02/29/2024 |  |
|-----|--------------|--|--------|-----|---|---------|------------|------------|--|

**Specific Conductance Mod. 9050A**

|                           |              |  |         |          |   |         |            |            |  |
|---------------------------|--------------|--|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | <b>0.637</b> |  | 0.00500 | mmhos/cm | 1 | B4B2615 | 02/26/2024 | 02/27/2024 |  |
|---------------------------|--------------|--|---------|----------|---|---------|------------|------------|--|

**Table 915 metals by EPA 6020B**

|         |              |  |       |       |    |         |            |            |  |
|---------|--------------|--|-------|-------|----|---------|------------|------------|--|
| Arsenic | <b>0.822</b> |  | 0.257 | mg/kg | 10 | B4B2349 | 02/23/2024 | 03/10/2024 |  |
|---------|--------------|--|-------|-------|----|---------|------------|------------|--|

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 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**SS-2**

**2/23/2024 9:35:00AM**

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

**Origins Laboratory, Inc.**  
**Y402579-04 (Soil)**

**Table 915 metals by EPA 6020B**

|          |       |  |        |       |    |         |            |            |  |
|----------|-------|--|--------|-------|----|---------|------------|------------|--|
| Barium   | 28.5  |  | 8.85   | mg/kg | 10 | B4B2349 | 02/23/2024 | 03/10/2024 |  |
| Cadmium  | 0.104 |  | 0.0885 | "     | "  | "       | "          | "          |  |
| Copper   | ND    |  | 8.85   | "     | "  | "       | "          | "          |  |
| Lead     | 5.15  |  | 0.885  | "     | "  | "       | "          | "          |  |
| Nickel   | 2.58  |  | 0.885  | "     | "  | "       | "          | "          |  |
| Selenium | ND    |  | 0.230  | "     | "  | "       | "          | "          |  |
| Silver   | ND    |  | 0.0885 | "     | "  | "       | "          | "          |  |
| Zinc     | ND    |  | 32.8   | "     | "  | "       | "          | "          |  |

**Total Metals by 7196A**

|                      |    |       |     |       |   |         |            |            |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|
| Chromium, Hexavalent | ND | 0.244 | 0.5 | mg/Kg | 1 | L737337 | 02/23/2024 | 03/08/2024 |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|

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KP Kauffman Co. Inc.  
 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**SS-3**

**2/23/2024 9:40:00AM**

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

**Origins Laboratory, Inc.**  
**Y402579-05 (Soil)**

**Boron (DTPA Sorbitol)**

|       |       |  |       |      |   |         |            |            |  |
|-------|-------|--|-------|------|---|---------|------------|------------|--|
| Boron | 0.359 |  | 0.100 | mg/L | 1 | B4C0111 | 03/01/2024 | 03/05/2024 |  |
|-------|-------|--|-------|------|---|---------|------------|------------|--|

**DRO/ORO by EPA 8015D**

|                                   |      |  |      |       |   |         |            |            |  |
|-----------------------------------|------|--|------|-------|---|---------|------------|------------|--|
| Diesel (C10-C28)                  | 49.1 |  | 25.0 | mg/kg | 1 | B4B2701 | 02/27/2024 | 03/04/2024 |  |
| Residual Range Organics (C28-C40) | 101  |  | 100  | "     | " | "       | "          | "          |  |

|                        |        |  |        |  |  |   |   |   |  |
|------------------------|--------|--|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 65.1 % |  | 50-150 |  |  | " | " | " |  |
|------------------------|--------|--|--------|--|--|---|---|---|--|

**GBTEX+TMBs by 8260D**

|                             |    |  |         |       |   |         |            |            |   |
|-----------------------------|----|--|---------|-------|---|---------|------------|------------|---|
| 1,2,4-Trimethylbenzene      | ND |  | 0.00200 | mg/kg | 1 | B4B2412 | 02/24/2024 | 02/25/2024 | U |
| 1,3,5-Trimethylbenzene      | ND |  | 0.00200 | "     | " | "       | "          | "          | U |
| Benzene                     | ND |  | 0.00200 | "     | " | "       | "          | "          | U |
| Ethylbenzene                | ND |  | 0.00200 | "     | " | "       | "          | "          | U |
| Toluene                     | ND |  | 0.00200 | "     | " | "       | "          | "          | U |
| Xylenes, total              | ND |  | 0.00200 | "     | " | "       | "          | "          | U |
| Gasoline Range Hydrocarbons | ND |  | 0.200   | "     | " | "       | "          | "          | U |

|                                  |       |  |        |  |  |   |   |   |  |
|----------------------------------|-------|--|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 123 % |  | 70-130 |  |  | " | " | " |  |
| Surrogate: Toluene-d8            | 110 % |  | 70-130 |  |  | " | " | " |  |

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KP Kauffman Co. Inc.  
 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**SS-3**  
**2/23/2024 9:40:00AM**

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

**Origins Laboratory, Inc.**  
**Y402579-05 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene 134 % 70-130 B4B24 02/24/2024 02/25/2024 GC  
 12

**Metals by Saturated Paste by EPA 6010**

|           |      |       |       |    |        |            |            |
|-----------|------|-------|-------|----|--------|------------|------------|
| Calcium   | 3.27 | 0.499 | meq/L | 10 | [CALC] | 02/26/2024 | 02/29/2024 |
| Magnesium | 1.08 | 0.823 | "     | "  | "      | "          | "          |
| Sodium    | ND   | 0.435 | "     | "  | "      | "          | "          |

**PAH by EPA 8270E**

|                         |    |       |       |   |         |            |            |   |
|-------------------------|----|-------|-------|---|---------|------------|------------|---|
| 1-Methylnaphthalene     | ND | 0.002 | mg/kg | 1 | B4B2822 | 02/28/2024 | 02/29/2024 | U |
| 2-Methylnaphthalene     | ND | 0.002 | "     | " | "       | "          | "          | U |
| Acenaphthene            | ND | 0.020 | "     | " | "       | "          | "          | U |
| Anthracene              | ND | 0.020 | "     | " | "       | "          | "          | U |
| Benzo (a) anthracene    | ND | 0.005 | "     | " | "       | "          | "          | U |
| Benzo (a) pyrene        | ND | 0.020 | "     | " | "       | "          | "          | U |
| Benzo (b) fluoranthene  | ND | 0.020 | "     | " | "       | "          | "          | U |
| Benzo (k) fluoranthene  | ND | 0.020 | "     | " | "       | "          | "          | U |
| Chrysene                | ND | 0.020 | "     | " | "       | "          | "          | U |
| Dibenz (a,h) anthracene | ND | 0.020 | "     | " | "       | "          | "          | U |
| Fluoranthene            | ND | 0.020 | "     | " | "       | "          | "          | U |
| Fluorene                | ND | 0.020 | "     | " | "       | "          | "          | U |

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 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**SS-3**

**2/23/2024 9:40:00AM**

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

**Origins Laboratory, Inc.**  
**Y402579-05 (Soil)**

**PAH by EPA 8270E**

|                          |    |  |       |       |   |         |            |            |   |
|--------------------------|----|--|-------|-------|---|---------|------------|------------|---|
| Indeno (1,2,3-cd) pyrene | ND |  | 0.020 | mg/kg | 1 | B4B2822 | 02/28/2024 | 02/29/2024 | U |
| Naphthalene              | ND |  | 0.002 | "     | " | "       | "          | "          | U |
| Pyrene                   | ND |  | 0.020 | "     | " | "       | "          | "          | U |

|                                 |        |  |        |  |  |   |   |   |  |
|---------------------------------|--------|--|--------|--|--|---|---|---|--|
| Surrogate: Fluorene-d10         | 97.0 % |  | 60-130 |  |  | " | " | " |  |
| Surrogate: Anthracene-d10       | 96.5 % |  | 60-130 |  |  | " | " | " |  |
| Surrogate: Pyrene-d10           | 88.9 % |  | 60-130 |  |  | " | " | " |  |
| Surrogate: Benzo (a) pyrene-d12 | 101 %  |  | 60-130 |  |  | " | " | " |  |

**pH in Soil by 9045D**

|    |      |  |  |          |   |         |            |            |  |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 8.10 |  |  | pH Units | 1 | B4B2615 | 02/26/2024 | 02/27/2024 |  |
|----|------|--|--|----------|---|---------|------------|------------|--|

**SAR by 20B Saturated Paste**

|     |        |  |        |     |   |         |            |            |  |
|-----|--------|--|--------|-----|---|---------|------------|------------|--|
| SAR | 0.0589 |  | 0.0100 | SAR | 1 | B4B2606 | 02/26/2024 | 02/29/2024 |  |
|-----|--------|--|--------|-----|---|---------|------------|------------|--|

**Specific Conductance Mod. 9050A**

|                           |       |  |         |          |   |         |            |            |  |
|---------------------------|-------|--|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.538 |  | 0.00500 | mmhos/cm | 1 | B4B2615 | 02/26/2024 | 02/27/2024 |  |
|---------------------------|-------|--|---------|----------|---|---------|------------|------------|--|

**Table 915 metals by EPA 6020B**

|         |      |  |       |       |    |         |            |            |  |
|---------|------|--|-------|-------|----|---------|------------|------------|--|
| Arsenic | 1.53 |  | 0.269 | mg/kg | 10 | B4B2349 | 02/23/2024 | 03/10/2024 |  |
|---------|------|--|-------|-------|----|---------|------------|------------|--|

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KP Kauffman Co. Inc.  
 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**SS-3**

**2/23/2024 9:40:00AM**

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

**Origins Laboratory, Inc.**  
**Y402579-05 (Soil)**

**Table 915 metals by EPA 6020B**

|          |       |  |        |       |    |         |            |            |  |
|----------|-------|--|--------|-------|----|---------|------------|------------|--|
| Barium   | 30.2  |  | 9.26   | mg/kg | 10 | B4B2349 | 02/23/2024 | 03/10/2024 |  |
| Cadmium  | 0.114 |  | 0.0926 | "     | "  | "       | "          | "          |  |
| Copper   | ND    |  | 9.26   | "     | "  | "       | "          | "          |  |
| Lead     | 6.34  |  | 0.926  | "     | "  | "       | "          | "          |  |
| Nickel   | 3.17  |  | 0.926  | "     | "  | "       | "          | "          |  |
| Selenium | ND    |  | 0.241  | "     | "  | "       | "          | "          |  |
| Silver   | ND    |  | 0.0926 | "     | "  | "       | "          | "          |  |
| Zinc     | ND    |  | 34.3   | "     | "  | "       | "          | "          |  |

**Total Metals by 7196A**

|                      |    |       |     |       |   |         |            |            |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|
| Chromium, Hexavalent | ND | 0.244 | 0.5 | mg/Kg | 1 | L737337 | 02/23/2024 | 03/08/2024 |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|

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 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**BG-2**

**2/23/2024 9:45:00AM**

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

**Origins Laboratory, Inc.**  
**Y402579-06 (Soil)**

**Boron (DTPA Sorbitol)**

|       |       |  |       |      |   |         |            |            |  |
|-------|-------|--|-------|------|---|---------|------------|------------|--|
| Boron | 0.164 |  | 0.101 | mg/L | 1 | B4C0111 | 03/01/2024 | 03/05/2024 |  |
|-------|-------|--|-------|------|---|---------|------------|------------|--|

**DRO/ORO by EPA 8015D**

|                                   |    |  |      |       |   |         |            |            |   |
|-----------------------------------|----|--|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | ND |  | 25.0 | mg/kg | 1 | B4B2701 | 02/27/2024 | 03/03/2024 | U |
| Residual Range Organics (C28-C40) | ND |  | 100  | "     | " | "       | "          | "          | U |

|                        |        |  |        |  |  |   |   |   |  |
|------------------------|--------|--|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 81.1 % |  | 50-150 |  |  | " | " | " |  |
|------------------------|--------|--|--------|--|--|---|---|---|--|

**GBTEX+TMBs by 8260D**

|                             |    |  |         |       |   |         |            |            |   |
|-----------------------------|----|--|---------|-------|---|---------|------------|------------|---|
| 1,2,4-Trimethylbenzene      | ND |  | 0.00200 | mg/kg | 1 | B4B2412 | 02/24/2024 | 02/25/2024 | U |
| 1,3,5-Trimethylbenzene      | ND |  | 0.00200 | "     | " | "       | "          | "          | U |
| Benzene                     | ND |  | 0.00200 | "     | " | "       | "          | "          | U |
| Ethylbenzene                | ND |  | 0.00200 | "     | " | "       | "          | "          | U |
| Toluene                     | ND |  | 0.00200 | "     | " | "       | "          | "          | U |
| Xylenes, total              | ND |  | 0.00200 | "     | " | "       | "          | "          | U |
| Gasoline Range Hydrocarbons | ND |  | 0.200   | "     | " | "       | "          | "          | U |

|                                  |       |  |        |  |  |   |   |   |  |
|----------------------------------|-------|--|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 126 % |  | 70-130 |  |  | " | " | " |  |
|----------------------------------|-------|--|--------|--|--|---|---|---|--|

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 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**BG-2**

**2/23/2024 9:45:00AM**

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

**Origins Laboratory, Inc.**  
**Y402579-06 (Soil)**

**GBTEX+TMBs by 8260D**

|                                 |       |  |        |  |  |             |            |            |      |
|---------------------------------|-------|--|--------|--|--|-------------|------------|------------|------|
| Surrogate: Toluene-d8           | 109 % |  | 70-130 |  |  | B4B24<br>12 | 02/24/2024 | 02/25/2024 |      |
| Surrogate: 4-Bromofluorobenzene | 132 % |  | 70-130 |  |  | "           | "          | "          | S-GC |

**Metals by Saturated Paste by EPA 6010**

|           |      |  |       |       |    |        |            |            |  |
|-----------|------|--|-------|-------|----|--------|------------|------------|--|
| Calcium   | 1.58 |  | 0.499 | meq/L | 10 | [CALC] | 02/26/2024 | 02/29/2024 |  |
| Magnesium | ND   |  | 0.823 | "     | "  | "      | "          | "          |  |
| Sodium    | ND   |  | 0.435 | "     | "  | "      | "          | "          |  |

**PAH by EPA 8270E**

|                         |    |  |       |       |   |         |            |            |   |
|-------------------------|----|--|-------|-------|---|---------|------------|------------|---|
| 1-Methylnaphthalene     | ND |  | 0.002 | mg/kg | 1 | B4B2822 | 02/28/2024 | 02/29/2024 | U |
| 2-Methylnaphthalene     | ND |  | 0.002 | "     | " | "       | "          | "          | U |
| Acenaphthene            | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Anthracene              | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Benzo (a) anthracene    | ND |  | 0.005 | "     | " | "       | "          | "          | U |
| Benzo (a) pyrene        | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Benzo (b) fluoranthene  | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Benzo (k) fluoranthene  | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Chrysene                | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Dibenz (a,h) anthracene | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Fluoranthene            | ND |  | 0.020 | "     | " | "       | "          | "          | U |

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 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**BG-2**

**2/23/2024 9:45:00AM**

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

**Origins Laboratory, Inc.**  
**Y402579-06 (Soil)**

**PAH by EPA 8270E**

|                          |    |  |       |       |   |         |            |            |   |
|--------------------------|----|--|-------|-------|---|---------|------------|------------|---|
| Fluorene                 | ND |  | 0.020 | mg/kg | 1 | B4B2822 | 02/28/2024 | 02/29/2024 | U |
| Indeno (1,2,3-cd) pyrene | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Naphthalene              | ND |  | 0.002 | "     | " | "       | "          | "          | U |
| Pyrene                   | ND |  | 0.020 | "     | " | "       | "          | "          | U |

|                                 |        |  |        |  |  |   |   |   |  |
|---------------------------------|--------|--|--------|--|--|---|---|---|--|
| Surrogate: Fluorene-d10         | 98.3 % |  | 60-130 |  |  | " | " | " |  |
| Surrogate: Anthracene-d10       | 95.9 % |  | 60-130 |  |  | " | " | " |  |
| Surrogate: Pyrene-d10           | 94.9 % |  | 60-130 |  |  | " | " | " |  |
| Surrogate: Benzo (a) pyrene-d12 | 103 %  |  | 60-130 |  |  | " | " | " |  |

**pH in Soil by 9045D**

|    |      |  |  |          |   |         |            |            |  |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 8.11 |  |  | pH Units | 1 | B4B2615 | 02/26/2024 | 02/27/2024 |  |
|----|------|--|--|----------|---|---------|------------|------------|--|

**SAR by 20B Saturated Paste**

|     |        |  |        |     |   |         |            |            |  |
|-----|--------|--|--------|-----|---|---------|------------|------------|--|
| SAR | 0.0405 |  | 0.0100 | SAR | 1 | B4B2606 | 02/26/2024 | 02/29/2024 |  |
|-----|--------|--|--------|-----|---|---------|------------|------------|--|

**Specific Conductance Mod. 9050A**

|                           |       |  |         |          |   |         |            |            |  |
|---------------------------|-------|--|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.258 |  | 0.00500 | mmhos/cm | 1 | B4B2615 | 02/26/2024 | 02/27/2024 |  |
|---------------------------|-------|--|---------|----------|---|---------|------------|------------|--|

**Table 915 metals by EPA 6020B**

Origins Laboratory, Inc.



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 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**BG-2**

**2/23/2024 9:45:00AM**

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

**Origins Laboratory, Inc.**  
**Y402579-06 (Soil)**

**Table 915 metals by EPA 6020B**

|          |       |  |        |       |    |         |            |            |  |
|----------|-------|--|--------|-------|----|---------|------------|------------|--|
| Arsenic  | 0.830 |  | 0.253  | mg/kg | 10 | B4B2349 | 02/23/2024 | 03/10/2024 |  |
| Barium   | 27.1  |  | 8.72   | "     | "  | "       | "          | "          |  |
| Cadmium  | 0.100 |  | 0.0872 | "     | "  | "       | "          | "          |  |
| Copper   | ND    |  | 8.72   | "     | "  | "       | "          | "          |  |
| Lead     | 5.00  |  | 0.872  | "     | "  | "       | "          | "          |  |
| Nickel   | 2.50  |  | 0.872  | "     | "  | "       | "          | "          |  |
| Selenium | ND    |  | 0.227  | "     | "  | "       | "          | "          |  |
| Silver   | ND    |  | 0.0872 | "     | "  | "       | "          | "          |  |
| Zinc     | ND    |  | 32.3   | "     | "  | "       | "          | "          |  |

**Total Metals by 7196A**

|                      |    |       |     |       |   |         |            |            |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|
| Chromium, Hexavalent | ND | 0.244 | 0.5 | mg/Kg | 1 | L737337 | 02/23/2024 | 03/08/2024 |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|

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 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**BG-3**

**2/23/2024 9:50:00AM**

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

**Origins Laboratory, Inc.**  
**Y402579-07 (Soil)**

**Boron (DTPA Sorbitol)**

|       |       |  |        |      |   |         |            |            |  |
|-------|-------|--|--------|------|---|---------|------------|------------|--|
| Boron | 0.167 |  | 0.0994 | mg/L | 1 | B4C0112 | 03/01/2024 | 03/05/2024 |  |
|-------|-------|--|--------|------|---|---------|------------|------------|--|

**DRO/ORO by EPA 8015D**

|                                   |    |  |      |       |   |         |            |            |   |
|-----------------------------------|----|--|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | ND |  | 25.0 | mg/kg | 1 | B4B2701 | 02/27/2024 | 03/03/2024 | U |
| Residual Range Organics (C28-C40) | ND |  | 100  | "     | " | "       | "          | "          | U |

|                        |        |  |        |  |  |   |   |   |  |
|------------------------|--------|--|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 82.8 % |  | 50-150 |  |  | " | " | " |  |
|------------------------|--------|--|--------|--|--|---|---|---|--|

**GBTEX+TMBs by 8260D**

|                             |    |  |         |       |   |         |            |            |   |
|-----------------------------|----|--|---------|-------|---|---------|------------|------------|---|
| 1,2,4-Trimethylbenzene      | ND |  | 0.00200 | mg/kg | 1 | B4B2412 | 02/24/2024 | 02/25/2024 | U |
| 1,3,5-Trimethylbenzene      | ND |  | 0.00200 | "     | " | "       | "          | "          | U |
| Benzene                     | ND |  | 0.00200 | "     | " | "       | "          | "          | U |
| Ethylbenzene                | ND |  | 0.00200 | "     | " | "       | "          | "          | U |
| Toluene                     | ND |  | 0.00200 | "     | " | "       | "          | "          | U |
| Xylenes, total              | ND |  | 0.00200 | "     | " | "       | "          | "          | U |
| Gasoline Range Hydrocarbons | ND |  | 0.200   | "     | " | "       | "          | "          | U |

|                                  |       |  |        |  |  |   |   |   |  |
|----------------------------------|-------|--|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 124 % |  | 70-130 |  |  | " | " | " |  |
|----------------------------------|-------|--|--------|--|--|---|---|---|--|

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KP Kauffman Co. Inc.  
 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**BG-3**

**2/23/2024 9:50:00AM**

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

**Origins Laboratory, Inc.**  
**Y402579-07 (Soil)**

**GBTEX+TMBs by 8260D**

|                                 |       |  |        |  |  |             |            |            |      |
|---------------------------------|-------|--|--------|--|--|-------------|------------|------------|------|
| Surrogate: Toluene-d8           | 109 % |  | 70-130 |  |  | B4B24<br>12 | 02/24/2024 | 02/25/2024 |      |
| Surrogate: 4-Bromofluorobenzene | 132 % |  | 70-130 |  |  | "           | "          | "          | S-GC |

**Metals by Saturated Paste by EPA 6010**

|           |      |  |       |       |    |        |            |            |  |
|-----------|------|--|-------|-------|----|--------|------------|------------|--|
| Calcium   | 1.58 |  | 0.499 | meq/L | 10 | [CALC] | 02/26/2024 | 02/29/2024 |  |
| Magnesium | ND   |  | 0.823 | "     | "  | "      | "          | "          |  |
| Sodium    | ND   |  | 0.435 | "     | "  | "      | "          | "          |  |

**PAH by EPA 8270E**

|                         |    |  |       |       |   |         |            |            |   |
|-------------------------|----|--|-------|-------|---|---------|------------|------------|---|
| 1-Methylnaphthalene     | ND |  | 0.002 | mg/kg | 1 | B4B2822 | 02/28/2024 | 02/29/2024 | U |
| 2-Methylnaphthalene     | ND |  | 0.002 | "     | " | "       | "          | "          | U |
| Acenaphthene            | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Anthracene              | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Benzo (a) anthracene    | ND |  | 0.005 | "     | " | "       | "          | "          | U |
| Benzo (a) pyrene        | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Benzo (b) fluoranthene  | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Benzo (k) fluoranthene  | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Chrysene                | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Dibenz (a,h) anthracene | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Fluoranthene            | ND |  | 0.020 | "     | " | "       | "          | "          | U |

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KP Kauffman Co. Inc.  
 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**BG-3**

**2/23/2024 9:50:00AM**

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

**Origins Laboratory, Inc.**  
**Y402579-07 (Soil)**

**PAH by EPA 8270E**

|                          |    |  |       |       |   |         |            |            |   |
|--------------------------|----|--|-------|-------|---|---------|------------|------------|---|
| Fluorene                 | ND |  | 0.020 | mg/kg | 1 | B4B2822 | 02/28/2024 | 02/29/2024 | U |
| Indeno (1,2,3-cd) pyrene | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Naphthalene              | ND |  | 0.002 | "     | " | "       | "          | "          | U |
| Pyrene                   | ND |  | 0.020 | "     | " | "       | "          | "          | U |

|                                 |        |  |        |  |  |   |   |   |  |
|---------------------------------|--------|--|--------|--|--|---|---|---|--|
| Surrogate: Fluorene-d10         | 99.0 % |  | 60-130 |  |  | " | " | " |  |
| Surrogate: Anthracene-d10       | 96.0 % |  | 60-130 |  |  | " | " | " |  |
| Surrogate: Pyrene-d10           | 93.5 % |  | 60-130 |  |  | " | " | " |  |
| Surrogate: Benzo (a) pyrene-d12 | 100 %  |  | 60-130 |  |  | " | " | " |  |

**pH in Soil by 9045D**

|    |      |  |  |          |   |         |            |            |  |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 8.23 |  |  | pH Units | 1 | B4B2615 | 02/26/2024 | 02/27/2024 |  |
|----|------|--|--|----------|---|---------|------------|------------|--|

**SAR by 20B Saturated Paste**

|     |        |  |        |     |   |         |            |            |  |
|-----|--------|--|--------|-----|---|---------|------------|------------|--|
| SAR | 0.0320 |  | 0.0100 | SAR | 1 | B4B2606 | 02/26/2024 | 02/29/2024 |  |
|-----|--------|--|--------|-----|---|---------|------------|------------|--|

**Specific Conductance Mod. 9050A**

|                           |       |  |         |          |   |         |            |            |  |
|---------------------------|-------|--|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.256 |  | 0.00500 | mmhos/cm | 1 | B4B2615 | 02/26/2024 | 02/27/2024 |  |
|---------------------------|-------|--|---------|----------|---|---------|------------|------------|--|

**Table 915 metals by EPA 6020B**

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 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**BG-3**

**2/23/2024 9:50:00AM**

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

**Origins Laboratory, Inc.**  
**Y402579-07 (Soil)**

**Table 915 metals by EPA 6020B**

|          |       |  |        |       |    |         |            |            |  |
|----------|-------|--|--------|-------|----|---------|------------|------------|--|
| Arsenic  | 1.12  |  | 0.245  | mg/kg | 10 | B4B2349 | 02/23/2024 | 03/10/2024 |  |
| Barium   | 36.4  |  | 8.45   | "     | "  | "       | "          | "          |  |
| Cadmium  | 0.151 |  | 0.0845 | "     | "  | "       | "          | "          |  |
| Copper   | ND    |  | 8.45   | "     | "  | "       | "          | "          |  |
| Lead     | 6.59  |  | 0.845  | "     | "  | "       | "          | "          |  |
| Nickel   | 3.09  |  | 0.845  | "     | "  | "       | "          | "          |  |
| Selenium | ND    |  | 0.220  | "     | "  | "       | "          | "          |  |
| Silver   | ND    |  | 0.0845 | "     | "  | "       | "          | "          |  |
| Zinc     | ND    |  | 31.3   | "     | "  | "       | "          | "          |  |

**Total Metals by 7196A**

|                      |    |       |     |       |   |         |            |            |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|
| Chromium, Hexavalent | ND | 0.244 | 0.5 | mg/Kg | 1 | L737337 | 02/23/2024 | 03/08/2024 |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|

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 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**BG-4**

**2/23/2024 9:55:00AM**

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

**Origins Laboratory, Inc.**  
**Y402579-08 (Soil)**

**Boron (DTPA Sorbitol)**

|       |       |  |        |      |   |         |            |            |  |
|-------|-------|--|--------|------|---|---------|------------|------------|--|
| Boron | 0.263 |  | 0.0997 | mg/L | 1 | B4C0112 | 03/01/2024 | 03/05/2024 |  |
|-------|-------|--|--------|------|---|---------|------------|------------|--|

**DRO/ORO by EPA 8015D**

|                                   |    |  |      |       |   |         |            |            |   |
|-----------------------------------|----|--|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | ND |  | 25.0 | mg/kg | 1 | B4B2701 | 02/27/2024 | 03/03/2024 | U |
| Residual Range Organics (C28-C40) | ND |  | 100  | "     | " | "       | "          | "          | U |

|                        |        |  |        |  |  |   |   |   |  |
|------------------------|--------|--|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 80.7 % |  | 50-150 |  |  | " | " | " |  |
|------------------------|--------|--|--------|--|--|---|---|---|--|

**GBTEX+TMBs by 8260D**

|                             |    |  |         |       |   |         |            |            |   |
|-----------------------------|----|--|---------|-------|---|---------|------------|------------|---|
| 1,2,4-Trimethylbenzene      | ND |  | 0.00200 | mg/kg | 1 | B4B2412 | 02/24/2024 | 02/25/2024 | U |
| 1,3,5-Trimethylbenzene      | ND |  | 0.00200 | "     | " | "       | "          | "          | U |
| Benzene                     | ND |  | 0.00200 | "     | " | "       | "          | "          | U |
| Ethylbenzene                | ND |  | 0.00200 | "     | " | "       | "          | "          | U |
| Toluene                     | ND |  | 0.00200 | "     | " | "       | "          | "          | U |
| Xylenes, total              | ND |  | 0.00200 | "     | " | "       | "          | "          | U |
| Gasoline Range Hydrocarbons | ND |  | 0.200   | "     | " | "       | "          | "          | U |

|                                  |       |  |        |  |  |   |   |   |  |
|----------------------------------|-------|--|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 125 % |  | 70-130 |  |  | " | " | " |  |
|----------------------------------|-------|--|--------|--|--|---|---|---|--|

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 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**BG-4**

**2/23/2024 9:55:00AM**

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

**Origins Laboratory, Inc.**  
**Y402579-08 (Soil)**

**GBTEX+TMBs by 8260D**

|                                 |       |  |        |  |  |             |            |            |      |
|---------------------------------|-------|--|--------|--|--|-------------|------------|------------|------|
| Surrogate: Toluene-d8           | 110 % |  | 70-130 |  |  | B4B24<br>12 | 02/24/2024 | 02/25/2024 |      |
| Surrogate: 4-Bromofluorobenzene | 132 % |  | 70-130 |  |  | "           | "          | "          | S-GC |

**Metals by Saturated Paste by EPA 6010**

|           |      |  |       |       |    |        |            |            |  |
|-----------|------|--|-------|-------|----|--------|------------|------------|--|
| Calcium   | 2.06 |  | 0.499 | meq/L | 10 | [CALC] | 02/26/2024 | 02/29/2024 |  |
| Magnesium | ND   |  | 0.823 | "     | "  | "      | "          | "          |  |
| Sodium    | ND   |  | 0.435 | "     | "  | "      | "          | "          |  |

**PAH by EPA 8270E**

|                         |    |  |       |       |   |         |            |            |   |
|-------------------------|----|--|-------|-------|---|---------|------------|------------|---|
| 1-Methylnaphthalene     | ND |  | 0.002 | mg/kg | 1 | B4B2822 | 02/28/2024 | 02/29/2024 | U |
| 2-Methylnaphthalene     | ND |  | 0.002 | "     | " | "       | "          | "          | U |
| Acenaphthene            | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Anthracene              | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Benzo (a) anthracene    | ND |  | 0.005 | "     | " | "       | "          | "          | U |
| Benzo (a) pyrene        | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Benzo (b) fluoranthene  | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Benzo (k) fluoranthene  | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Chrysene                | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Dibenz (a,h) anthracene | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Fluoranthene            | ND |  | 0.020 | "     | " | "       | "          | "          | U |

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 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**BG-4**

**2/23/2024 9:55:00AM**

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

**Origins Laboratory, Inc.**  
**Y402579-08 (Soil)**

**PAH by EPA 8270E**

|                          |    |  |       |       |   |         |            |            |   |
|--------------------------|----|--|-------|-------|---|---------|------------|------------|---|
| Fluorene                 | ND |  | 0.020 | mg/kg | 1 | B4B2822 | 02/28/2024 | 02/29/2024 | U |
| Indeno (1,2,3-cd) pyrene | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Naphthalene              | ND |  | 0.002 | "     | " | "       | "          | "          | U |
| Pyrene                   | ND |  | 0.020 | "     | " | "       | "          | "          | U |

|                                 |        |  |        |  |  |   |   |   |  |
|---------------------------------|--------|--|--------|--|--|---|---|---|--|
| Surrogate: Fluorene-d10         | 99.9 % |  | 60-130 |  |  | " | " | " |  |
| Surrogate: Anthracene-d10       | 95.6 % |  | 60-130 |  |  | " | " | " |  |
| Surrogate: Pyrene-d10           | 91.0 % |  | 60-130 |  |  | " | " | " |  |
| Surrogate: Benzo (a) pyrene-d12 | 101 %  |  | 60-130 |  |  | " | " | " |  |

**pH in Soil by 9045D**

|    |      |  |  |          |   |         |            |            |  |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 8.11 |  |  | pH Units | 1 | B4B2615 | 02/26/2024 | 02/27/2024 |  |
|----|------|--|--|----------|---|---------|------------|------------|--|

**SAR by 20B Saturated Paste**

|     |        |  |        |     |   |         |            |            |  |
|-----|--------|--|--------|-----|---|---------|------------|------------|--|
| SAR | 0.0400 |  | 0.0100 | SAR | 1 | B4B2606 | 02/26/2024 | 02/29/2024 |  |
|-----|--------|--|--------|-----|---|---------|------------|------------|--|

**Specific Conductance Mod. 9050A**

|                           |       |  |         |          |   |         |            |            |  |
|---------------------------|-------|--|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.413 |  | 0.00500 | mmhos/cm | 1 | B4B2615 | 02/26/2024 | 02/27/2024 |  |
|---------------------------|-------|--|---------|----------|---|---------|------------|------------|--|

**Table 915 metals by EPA 6020B**

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 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**BG-4**

**2/23/2024 9:55:00AM**

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

**Origins Laboratory, Inc.**  
**Y402579-08 (Soil)**

**Table 915 metals by EPA 6020B**

|          |       |  |        |       |    |         |            |            |  |
|----------|-------|--|--------|-------|----|---------|------------|------------|--|
| Arsenic  | 0.906 |  | 0.286  | mg/kg | 10 | B4B2349 | 02/23/2024 | 03/10/2024 |  |
| Barium   | 32.5  |  | 9.87   | "     | "  | "       | "          | "          |  |
| Cadmium  | 0.119 |  | 0.0987 | "     | "  | "       | "          | "          |  |
| Copper   | ND    |  | 9.87   | "     | "  | "       | "          | "          |  |
| Lead     | 5.51  |  | 0.987  | "     | "  | "       | "          | "          |  |
| Nickel   | 3.22  |  | 0.987  | "     | "  | "       | "          | "          |  |
| Selenium | ND    |  | 0.257  | "     | "  | "       | "          | "          |  |
| Silver   | ND    |  | 0.0987 | "     | "  | "       | "          | "          |  |
| Zinc     | ND    |  | 36.5   | "     | "  | "       | "          | "          |  |

**Total Metals by 7196A**

|                      |    |       |     |       |   |         |            |            |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|
| Chromium, Hexavalent | ND | 0.244 | 0.5 | mg/Kg | 1 | L737337 | 02/23/2024 | 03/08/2024 |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|

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 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

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

Batch B4B2412 - EPA 5030 (soil)

**Blank (B4B2412-BLK1)**

Prepared: 02/24/2024 Analyzed: 02/25/2024

|                                  |      |         |       |       |     |  |        |  |  |   |
|----------------------------------|------|---------|-------|-------|-----|--|--------|--|--|---|
| 1,2,4-Trimethylbenzene           | ND   | 0.00200 | mg/kg |       |     |  |        |  |  | U |
| 1,3,5-Trimethylbenzene           | ND   | 0.00200 | "     |       |     |  |        |  |  | U |
| Benzene                          | ND   | 0.00200 | "     |       |     |  |        |  |  | U |
| Ethylbenzene                     | ND   | 0.00200 | "     |       |     |  |        |  |  | U |
| Naphthalene                      | ND   | 0.00380 | "     |       |     |  |        |  |  | U |
| Toluene                          | ND   | 0.00200 | "     |       |     |  |        |  |  | U |
| Xylenes, total                   | ND   | 0.00200 | "     |       |     |  |        |  |  | U |
| Gasoline Range Hydrocarbons      | ND   | 0.200   | "     |       |     |  |        |  |  | U |
| Surrogate: 1,2-Dichloroethane-d4 | 0.15 |         | "     | 0.125 | 118 |  | 70-130 |  |  |   |
| Surrogate: Toluene-d8            | 0.14 |         | "     | 0.125 | 113 |  | 70-130 |  |  |   |
| Surrogate: 4-Bromofluorobenzene  | 0.16 |         | "     | 0.125 | 129 |  | 70-130 |  |  |   |

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 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

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

Batch B4B2412 - EPA 5030 (soil)

**LCS (B4B2412-BS1)**

Prepared: 02/24/2024 Analyzed: 02/25/2024

|                                  |        |         |       |       |  |      |        |  |  |      |
|----------------------------------|--------|---------|-------|-------|--|------|--------|--|--|------|
| 1,2,4-Trimethylbenzene           | 0.115  | 0.00200 | mg/kg | 0.100 |  | 115  | 70-130 |  |  |      |
| 1,3,5-Trimethylbenzene           | 0.114  | 0.00200 | "     | 0.100 |  | 114  | 70-130 |  |  |      |
| Benzene                          | 0.0958 | 0.00200 | "     | 0.100 |  | 95.8 | 70-130 |  |  |      |
| Ethylbenzene                     | 0.117  | 0.00200 | "     | 0.100 |  | 117  | 70-130 |  |  |      |
| Naphthalene                      | 0.107  | 0.00380 | "     | 0.100 |  | 107  | 70-130 |  |  |      |
| Toluene                          | 0.0999 | 0.00200 | "     | 0.100 |  | 99.9 | 70-130 |  |  |      |
| o-Xylene                         | 0.110  | 0.00200 | "     | 0.100 |  | 110  | 70-130 |  |  |      |
| m,p-Xylene                       | 0.198  | 0.00400 | "     | 0.200 |  | 99.1 | 70-130 |  |  |      |
| Surrogate: 1,2-Dichloroethane-d4 | 0.15   |         | "     | 0.125 |  | 120  | 70-130 |  |  |      |
| Surrogate: Toluene-d8            | 0.14   |         | "     | 0.125 |  | 109  | 70-130 |  |  |      |
| Surrogate: 4-Bromofluorobenzene  | 0.18   |         | "     | 0.125 |  | 142  | 70-130 |  |  | S-GC |

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KP Kauffman Co. Inc.  
 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

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

Batch B4B2412 - EPA 5030 (soil)

| Matrix Spike (B4B2412-MS1)       | Source: Y402575-01 |         |       | Prepared: 02/24/2024 Analyzed: 02/25/2024 |          |      |        |  |  |      |
|----------------------------------|--------------------|---------|-------|---|----------|------|--------|--|--|------|
| 1,2,4-Trimethylbenzene           | 0.121              | 0.00200 | mg/kg | 0.100                                     | ND       | 121  | 70-130 |  |  |      |
| 1,3,5-Trimethylbenzene           | 0.122              | 0.00200 | "     | 0.100                                     | ND       | 122  | 70-130 |  |  |      |
| Benzene                          | 0.0990             | 0.00200 | "     | 0.100                                     | ND       | 99.0 | 70-130 |  |  |      |
| Ethylbenzene                     | 0.129              | 0.00200 | "     | 0.100                                     | ND       | 129  | 70-130 |  |  |      |
| Naphthalene                      | 0.0984             | 0.00380 | "     | 0.100                                     | 0.000880 | 97.5 | 70-130 |  |  |      |
| Toluene                          | 0.106              | 0.00200 | "     | 0.100                                     | ND       | 106  | 70-130 |  |  |      |
| o-Xylene                         | 0.129              | 0.00200 | "     | 0.100                                     | ND       | 129  | 70-130 |  |  |      |
| m,p-Xylene                       | 0.227              | 0.00400 | "     | 0.200                                     | ND       | 113  | 70-130 |  |  |      |
| Surrogate: 1,2-Dichloroethane-d4 | 0.14               |         | "     | 0.125                                     |          | 112  | 70-130 |  |  |      |
| Surrogate: Toluene-d8            | 0.14               |         | "     | 0.125                                     |          | 110  | 70-130 |  |  |      |
| Surrogate: 4-Bromofluorobenzene  | 0.18               |         | "     | 0.125                                     |          | 144  | 70-130 |  |  | S-GC |

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KP Kauffman Co. Inc.  
 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

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

Batch B4B2412 - EPA 5030 (soil)

| Matrix Spike Dup (B4B2412-MSD1)  | Source: Y402575-01 |         |       | Prepared: 02/24/2024 Analyzed: 02/25/2024 |          |     |        |       |    |      |
|----------------------------------|--------------------|---------|-------|---|----------|-----|--------|-------|----|------|
| 1,2,4-Trimethylbenzene           | 0.120              | 0.00200 | mg/kg | 0.100                                     | ND       | 120 | 70-130 | 1.03  | 20 |      |
| 1,3,5-Trimethylbenzene           | 0.120              | 0.00200 | "     | 0.100                                     | ND       | 120 | 70-130 | 1.60  | 20 |      |
| Benzene                          | 0.100              | 0.00200 | "     | 0.100                                     | ND       | 100 | 70-130 | 0.925 | 20 |      |
| Ethylbenzene                     | 0.127              | 0.00200 | "     | 0.100                                     | ND       | 127 | 70-130 | 1.22  | 20 |      |
| Naphthalene                      | 0.111              | 0.00380 | "     | 0.100                                     | 0.000880 | 110 | 70-130 | 12.3  | 20 |      |
| Toluene                          | 0.105              | 0.00200 | "     | 0.100                                     | ND       | 105 | 70-130 | 1.08  | 20 |      |
| o-Xylene                         | 0.127              | 0.00200 | "     | 0.100                                     | ND       | 127 | 70-130 | 1.37  | 20 |      |
| m,p-Xylene                       | 0.222              | 0.00400 | "     | 0.200                                     | ND       | 111 | 70-130 | 2.05  | 20 |      |
| Surrogate: 1,2-Dichloroethane-d4 | 0.15               |         | "     | 0.125                                     |          | 118 | 70-130 |       |    |      |
| Surrogate: Toluene-d8            | 0.14               |         | "     | 0.125                                     |          | 109 | 70-130 |       |    |      |
| Surrogate: 4-Bromofluorobenzene  | 0.18               |         | "     | 0.125                                     |          | 143 | 70-130 |       |    | S-GC |

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KP Kauffman Co. Inc.  
 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

| Analyte                           | Result | Reporting Limit | Units | Spike Level | Source Result                             | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------------|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B4B2701 - EPA 3550B</b>  |        |                 |       |             |   |      |             |     |           |       |
| <b>Blank (B4B2701-BLK1)</b>       |        |                 |       |             |   |      |             |     |           |       |
|                                   |        |                 |       |             | Prepared: 02/27/2024 Analyzed: 03/01/2024 |      |             |     |           |       |
| Diesel (C10-C28)                  | ND     | 25.0            | mg/kg |             |   |      |             |     |           | U     |
| Residual Range Organics (C28-C40) | ND     | 100             | "     |             |   |      |             |     |           | U     |
| Surrogate: o-Terphenyl            | 20     |                 | "     | 24.9        |   | 79.1 | 50-150      |     |           |       |

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 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

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

**Batch B4B2701 - EPA 3550B**

**LCS (B4B2701-BS1)**

Prepared: 02/27/2024 Analyzed: 03/01/2024

|                                   |     |      |       |      |  |      |        |  |  |  |
|-----------------------------------|-----|------|-------|------|--|------|--------|--|--|--|
| Diesel (C10-C28)                  | 857 | 50.0 | mg/kg | 1000 |  | 85.7 | 70-130 |  |  |  |
| Residual Range Organics (C28-C40) | 914 | 200  | "     | 1000 |  | 91.4 | 70-130 |  |  |  |
| Surrogate: o-Terphenyl            | 37  |      | "     | 49.8 |  | 74.2 | 50-150 |  |  |  |

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KP Kauffman Co. Inc.  
 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

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

**Batch B4B2701 - EPA 3550B**

| <b>Matrix Spike (B4B2701-MS1)</b> | <b>Source: Y402568-01</b> |      |       | <b>Prepared: 02/27/2024 Analyzed: 03/01/2024</b> |    |      |        |  |  |  |
|-----------------------------------|---------------------------|------|-------|--|----|------|--------|--|--|--|
| Diesel (C10-C28)                  | 830                       | 50.0 | mg/kg | 1000   | ND | 83.0 | 70-130 |  |  |  |
| Residual Range Organics (C28-C40) | 883                       | 200  | "     | 1000   | ND | 88.3 | 70-130 |  |  |  |
| Surrogate: o-Terphenyl            | 34                        |      | "     | 49.8   |    | 67.5 | 50-150 |  |  |  |

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KP Kauffman Co. Inc.  
 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

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

**Batch B4B2701 - EPA 3550B**

| <b>Matrix Spike Dup (B4B2701-MSD1)</b> | <b>Source: Y402568-01</b> |      |       | <b>Prepared: 02/27/2024 Analyzed: 03/01/2024</b> |    |      |        |      |    |  |
|--|---------------------------|------|-------|--|----|------|--------|------|----|--|
| Diesel (C10-C28)                       | 844                       | 50.0 | mg/kg | 1000   | ND | 84.4 | 70-130 | 1.60 | 35 |  |
| Residual Range Organics (C28-C40)      | 907                       | 200  | "     | 1000   | ND | 90.7 | 70-130 | 2.67 | 35 |  |
| Surrogate: o-Terphenyl                 | 40                        |      | "     | 49.8   |    | 79.9 | 50-150 |      |    |  |

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 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

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

**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 B4B2349 - EPA 3050B**

**Blank (B4B2349-BLK1)**

Prepared: 02/23/2024 Analyzed: 03/10/2024

|          |    |       |       |  |  |  |  |  |  |  |
|----------|----|-------|-------|--|--|--|--|--|--|--|
| 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 | "     |  |  |  |  |  |  |  |
| Zinc     | ND | 37.0  | "     |  |  |  |  |  |  |  |

**LCS (B4B2349-BS1)**

Prepared: 02/23/2024 Analyzed: 03/10/2024

|          |      |       |       |      |  |      |        |  |  |  |
|----------|------|-------|-------|------|--|------|--------|--|--|--|
| Arsenic  | 5.78 | 0.290 | mg/kg | 5.00 |  | 116  | 80-120 |  |  |  |
| Barium   | 572  | 10.0  | "     | 500  |  | 114  | 80-120 |  |  |  |
| Cadmium  | 4.58 | 0.100 | "     | 5.00 |  | 91.6 | 80-120 |  |  |  |
| Copper   | 49.4 | 10.0  | "     | 50.0 |  | 98.8 | 80-120 |  |  |  |
| Lead     | 5.06 | 1.00  | "     | 5.00 |  | 101  | 80-120 |  |  |  |
| Nickel   | 5.88 | 1.00  | "     | 5.00 |  | 118  | 80-120 |  |  |  |
| Selenium | 9.22 | 0.260 | "     | 9.50 |  | 97.1 | 80-120 |  |  |  |
| Silver   | 5.84 | 0.100 | "     | 5.00 |  | 117  | 80-120 |  |  |  |
| Zinc     | 47.7 | 37.0  | "     | 50.0 |  | 95.4 | 80-120 |  |  |  |

**Matrix Spike (B4B2349-MS1)**

**Source: Y402575-01**

Prepared: 02/23/2024 Analyzed: 03/10/2024

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 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**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 B4B2349 - EPA 3050B**

| <b>Matrix Spike (B4B2349-MS1)</b>      |      | <b>Source: Y402575-01</b> |       |      | <b>Prepared: 02/23/2024 Analyzed: 03/10/2024</b> |      |        |      |    |       |
|--|------|---------------------------|-------|------|--|------|--------|------|----|-------|
| Arsenic                                | 7.18 | 0.274                     | mg/kg | 4.73 | 2.13   | 107  | 75-125 |      |    |       |
| Barium                                 | 549  | 9.45                      | "     | 473  | 50.0   | 106  | 75-125 |      |    |       |
| Cadmium                                | 5.26 | 0.0945                    | "     | 4.73 | 0.0684   | 110  | 75-125 |      |    |       |
| Copper                                 | 55.6 | 9.45                      | "     | 47.3 | 3.26   | 111  | 75-125 |      |    |       |
| Lead                                   | 8.23 | 0.945                     | "     | 4.73 | 3.72   | 95.4 | 75-125 |      |    |       |
| Nickel                                 | 8.82 | 0.945                     | "     | 4.73 | 4.00   | 102  | 75-125 |      |    |       |
| Selenium                               | 10.7 | 0.246                     | "     | 8.98 | 0.0614   | 118  | 75-125 |      |    |       |
| Silver                                 | 5.04 | 0.0945                    | "     | 4.73 | 0.0188   | 106  | 75-125 |      |    |       |
| Zinc                                   | 80.2 | 35.0                      | "     | 47.3 | 21.5   | 124  | 75-125 |      |    |       |
| <b>Matrix Spike Dup (B4B2349-MSD1)</b> |      | <b>Source: Y402575-01</b> |       |      | <b>Prepared: 02/23/2024 Analyzed: 03/10/2024</b> |      |        |      |    |       |
| Arsenic                                | 6.63 | 0.258                     | mg/kg | 4.45 | 2.13   | 101  | 75-125 | 7.99 | 20 |       |
| Barium                                 | 520  | 8.91                      | "     | 445  | 50.0   | 106  | 75-125 | 5.39 | 20 |       |
| Cadmium                                | 4.90 | 0.0891                    | "     | 4.45 | 0.0684   | 108  | 75-125 | 7.12 | 20 |       |
| Copper                                 | 50.7 | 8.91                      | "     | 44.5 | 3.26   | 106  | 75-125 | 9.29 | 20 |       |
| Lead                                   | 8.68 | 0.891                     | "     | 4.45 | 3.72   | 111  | 75-125 | 5.37 | 20 |       |
| Nickel                                 | 8.34 | 0.891                     | "     | 4.45 | 4.00   | 97.4 | 75-125 | 5.63 | 20 |       |
| Selenium                               | 10.3 | 0.232                     | "     | 8.46 | 0.0614   | 121  | 75-125 | 3.98 | 20 |       |
| Silver                                 | 4.68 | 0.0891                    | "     | 4.45 | 0.0188   | 105  | 75-125 | 7.38 | 20 |       |
| Zinc                                   | 77.7 | 33.0                      | "     | 44.5 | 21.5   | 126  | 75-125 | 3.18 | 20 | QM-07 |

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 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

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

**Batch B4B2822 - EPA 3580**

**Blank (B4B2822-BLK1)**

Prepared: 02/28/2024 Analyzed: 02/29/2024

|                                 |     |       |       |     |  |      |        |  |  |   |
|---------------------------------|-----|-------|-------|-----|--|------|--------|--|--|---|
| 1-Methylnaphthalene             | ND  | 0.002 | mg/kg |     |  |      |        |  |  | U |
| 2-Methylnaphthalene             | ND  | 0.002 | "     |     |  |      |        |  |  | U |
| Acenaphthene                    | ND  | 0.020 | "     |     |  |      |        |  |  | U |
| Anthracene                      | ND  | 0.020 | "     |     |  |      |        |  |  | U |
| Benzo (a) anthracene            | ND  | 0.005 | "     |     |  |      |        |  |  | U |
| Benzo (a) pyrene                | ND  | 0.020 | "     |     |  |      |        |  |  | U |
| Benzo (b) fluoranthene          | ND  | 0.020 | "     |     |  |      |        |  |  | U |
| Benzo (g,h,i) perylene          | ND  | 0.020 | "     |     |  |      |        |  |  | U |
| Benzo (k) fluoranthene          | ND  | 0.020 | "     |     |  |      |        |  |  | U |
| Chrysene                        | ND  | 0.020 | "     |     |  |      |        |  |  | U |
| Dibenz (a,h) anthracene         | ND  | 0.020 | "     |     |  |      |        |  |  | U |
| Fluoranthene                    | ND  | 0.020 | "     |     |  |      |        |  |  | U |
| Fluorene                        | ND  | 0.020 | "     |     |  |      |        |  |  | U |
| Indeno (1,2,3-cd) pyrene        | ND  | 0.020 | "     |     |  |      |        |  |  | U |
| Naphthalene                     | ND  | 0.002 | "     |     |  |      |        |  |  | U |
| Phenanthrene                    | ND  | 0.020 | "     |     |  |      |        |  |  | U |
| Pyrene                          | ND  | 0.020 | "     |     |  |      |        |  |  | U |
| Surrogate: Fluorene-d10         | 200 |       | ug/kg | 200 |  | 101  | 60-130 |  |  |   |
| Surrogate: Anthracene-d10       | 190 |       | "     | 200 |  | 94.0 | 60-130 |  |  |   |
| Surrogate: Pyrene-d10           | 200 |       | "     | 200 |  | 99.4 | 60-130 |  |  |   |
| Surrogate: Benzo (a) pyrene-d12 | 210 |       | "     | 200 |  | 105  | 60-130 |  |  |   |

**LCS (B4B2822-BS1)**

Prepared: 02/28/2024 Analyzed: 02/29/2024

|                     |       |       |       |       |  |      |        |  |  |  |
|---------------------|-------|-------|-------|-------|--|------|--------|--|--|--|
| 1-Methylnaphthalene | 0.178 | 0.002 | mg/kg | 0.200 |  | 89.2 | 70-130 |  |  |  |
| 2-Methylnaphthalene | 0.177 | 0.002 | "     | 0.200 |  | 88.4 | 70-130 |  |  |  |
| Acenaphthene        | 0.179 | 0.020 | "     | 0.200 |  | 89.4 | 70-130 |  |  |  |
| Anthracene          | 0.179 | 0.020 | "     | 0.200 |  | 89.7 | 70-130 |  |  |  |

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KP Kauffman Co. Inc.  
 1700 Lincoln St #4550  
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John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

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

**Batch B4B2822 - EPA 3580**

**LCS (B4B2822-BS1)**

Prepared: 02/28/2024 Analyzed: 02/29/2024

|                                 |       |       |       |       |  |      |        |  |  |  |
|---------------------------------|-------|-------|-------|-------|--|------|--------|--|--|--|
| Benzo (a) anthracene            | 0.191 | 0.005 | mg/kg | 0.200 |  | 95.7 | 70-130 |  |  |  |
| Benzo (a) pyrene                | 0.186 | 0.020 | "     | 0.200 |  | 93.2 | 70-130 |  |  |  |
| Benzo (b) fluoranthene          | 0.187 | 0.020 | "     | 0.200 |  | 93.5 | 70-130 |  |  |  |
| Benzo (g,h,i) perylene          | 0.183 | 0.020 | "     | 0.200 |  | 91.5 | 70-130 |  |  |  |
| Benzo (k) fluoranthene          | 0.178 | 0.020 | "     | 0.200 |  | 88.9 | 70-130 |  |  |  |
| Chrysene                        | 0.182 | 0.020 | "     | 0.200 |  | 91.0 | 70-130 |  |  |  |
| Dibenz (a,h) anthracene         | 0.185 | 0.020 | "     | 0.200 |  | 92.4 | 70-130 |  |  |  |
| Fluoranthene                    | 0.165 | 0.020 | "     | 0.200 |  | 82.7 | 70-130 |  |  |  |
| Fluorene                        | 0.182 | 0.020 | "     | 0.200 |  | 91.1 | 70-130 |  |  |  |
| Indeno (1,2,3-cd) pyrene        | 0.190 | 0.020 | "     | 0.200 |  | 95.0 | 70-130 |  |  |  |
| Naphthalene                     | 0.184 | 0.002 | "     | 0.200 |  | 92.1 | 70-130 |  |  |  |
| Phenanthrene                    | 0.166 | 0.020 | "     | 0.200 |  | 83.2 | 70-130 |  |  |  |
| Pyrene                          | 0.176 | 0.020 | "     | 0.200 |  | 87.8 | 70-130 |  |  |  |
| Surrogate: Fluorene-d10         | 200   |       | ug/kg | 200   |  | 100  | 60-130 |  |  |  |
| Surrogate: Anthracene-d10       | 190   |       | "     | 200   |  | 93.5 | 60-130 |  |  |  |
| Surrogate: Pyrene-d10           | 200   |       | "     | 200   |  | 99.3 | 60-130 |  |  |  |
| Surrogate: Benzo (a) pyrene-d12 | 210   |       | "     | 200   |  | 104  | 60-130 |  |  |  |

**Matrix Spike (B4B2822-MS1)**

**Source: Y402568-01**

Prepared: 02/28/2024 Analyzed: 02/29/2024

|                        |       |       |       |       |       |      |        |  |  |  |
|------------------------|-------|-------|-------|-------|-------|------|--------|--|--|--|
| 1-Methylnaphthalene    | 0.198 | 0.002 | mg/kg | 0.200 | 0.012 | 92.7 | 70-130 |  |  |  |
| 2-Methylnaphthalene    | 0.225 | 0.002 | "     | 0.200 | 0.026 | 99.5 | 70-130 |  |  |  |
| Acenaphthene           | 0.183 | 0.020 | "     | 0.200 | 0.002 | 90.8 | 70-130 |  |  |  |
| Anthracene             | 0.169 | 0.020 | "     | 0.200 | ND    | 84.7 | 70-130 |  |  |  |
| Benzo (a) anthracene   | 0.189 | 0.005 | "     | 0.200 | 0.001 | 93.9 | 70-130 |  |  |  |
| Benzo (a) pyrene       | 0.191 | 0.020 | "     | 0.200 | ND    | 95.3 | 70-130 |  |  |  |
| Benzo (b) fluoranthene | 0.187 | 0.020 | "     | 0.200 | ND    | 93.6 | 70-130 |  |  |  |
| Benzo (g,h,i) perylene | 0.185 | 0.020 | "     | 0.200 | ND    | 92.4 | 70-130 |  |  |  |

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KP Kauffman Co. Inc.  
 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

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

**Batch B4B2822 - EPA 3580**

| <b>Matrix Spike (B4B2822-MS1)</b> |       | <b>Source: Y402568-01</b> |       |       | Prepared: 02/28/2024 Analyzed: 02/29/2024 |      |        |  |  |  |
|-----------------------------------|-------|---------------------------|-------|-------|---|------|--------|--|--|--|
| Benzo (k) fluoranthene            | 0.171 | 0.020                     | mg/kg | 0.200 | ND  | 85.5 | 70-130 |  |  |  |
| Chrysene                          | 0.185 | 0.020                     | "     | 0.200 | 0.0005                                    | 92.1 | 70-130 |  |  |  |
| Dibenz (a,h) anthracene           | 0.187 | 0.020                     | "     | 0.200 | ND  | 93.7 | 70-130 |  |  |  |
| Fluoranthene                      | 0.166 | 0.020                     | "     | 0.200 | ND  | 83.2 | 70-130 |  |  |  |
| Fluorene                          | 0.183 | 0.020                     | "     | 0.200 | 0.002                                     | 90.1 | 70-130 |  |  |  |
| Indeno (1,2,3-cd) pyrene          | 0.192 | 0.020                     | "     | 0.200 | ND  | 96.0 | 70-130 |  |  |  |
| Naphthalene                       | 0.193 | 0.002                     | "     | 0.200 | 0.008                                     | 92.3 | 70-130 |  |  |  |
| Phenanthrene                      | 0.173 | 0.020                     | "     | 0.200 | 0.003                                     | 85.1 | 70-130 |  |  |  |
| Pyrene                            | 0.168 | 0.020                     | "     | 0.200 | 0.0006                                    | 83.9 | 70-130 |  |  |  |
| Surrogate: Fluorene-d10           | 200   |                           | ug/kg | 200   |   | 101  | 60-130 |  |  |  |
| Surrogate: Anthracene-d10         | 190   |                           | "     | 200   |   | 94.3 | 60-130 |  |  |  |
| Surrogate: Pyrene-d10             | 190   |                           | "     | 200   |   | 95.9 | 60-130 |  |  |  |
| Surrogate: Benzo (a) pyrene-d12   | 210   |                           | "     | 200   |   | 104  | 60-130 |  |  |  |

| <b>Matrix Spike Dup (B4B2822-MSD1)</b> |       | <b>Source: Y402568-01</b> |       |       | Prepared: 02/28/2024 Analyzed: 02/29/2024 |      |        |         |    |  |
|--|-------|---------------------------|-------|-------|---|------|--------|---------|----|--|
| 1-Methylnaphthalene                    | 0.189 | 0.002                     | mg/kg | 0.200 | 0.012                                     | 88.1 | 70-130 | 4.76    | 20 |  |
| 2-Methylnaphthalene                    | 0.201 | 0.002                     | "     | 0.200 | 0.026                                     | 87.5 | 70-130 | 11.3    | 20 |  |
| Acenaphthene                           | 0.179 | 0.020                     | "     | 0.200 | 0.002                                     | 88.4 | 70-130 | 2.63    | 20 |  |
| Anthracene                             | 0.169 | 0.020                     | "     | 0.200 | ND  | 84.7 | 70-130 | 0.00685 | 20 |  |
| Benzo (a) anthracene                   | 0.179 | 0.005                     | "     | 0.200 | 0.001                                     | 89.0 | 70-130 | 5.36    | 20 |  |
| Benzo (a) pyrene                       | 0.180 | 0.020                     | "     | 0.200 | ND  | 90.2 | 70-130 | 5.48    | 20 |  |
| Benzo (b) fluoranthene                 | 0.174 | 0.020                     | "     | 0.200 | ND  | 87.0 | 70-130 | 7.35    | 20 |  |
| Benzo (g,h,i) perylene                 | 0.180 | 0.020                     | "     | 0.200 | ND  | 89.8 | 70-130 | 2.81    | 20 |  |
| Benzo (k) fluoranthene                 | 0.170 | 0.020                     | "     | 0.200 | ND  | 84.9 | 70-130 | 0.714   | 20 |  |
| Chrysene                               | 0.184 | 0.020                     | "     | 0.200 | 0.0005                                    | 91.6 | 70-130 | 0.559   | 20 |  |
| Dibenz (a,h) anthracene                | 0.178 | 0.020                     | "     | 0.200 | ND  | 89.0 | 70-130 | 5.09    | 20 |  |
| Fluoranthene                           | 0.166 | 0.020                     | "     | 0.200 | ND  | 82.9 | 70-130 | 0.388   | 20 |  |

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KP Kauffman Co. Inc.  
 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

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

Batch B4B2822 - EPA 3580

| Matrix Spike Dup (B4B2822-MSD1) | Source: Y402568-01 |       |       | Prepared: 02/28/2024 Analyzed: 02/29/2024 |        |      |        |       |    |  |
|---------------------------------|--------------------|-------|-------|---|--------|------|--------|-------|----|--|
| Fluorene                        | 0.180              | 0.020 | mg/kg | 0.200                                     | 0.002  | 89.0 | 70-130 | 1.25  | 20 |  |
| Indeno (1,2,3-cd) pyrene        | 0.182              | 0.020 | "     | 0.200                                     | ND     | 91.0 | 70-130 | 5.37  | 20 |  |
| Naphthalene                     | 0.190              | 0.002 | "     | 0.200                                     | 0.008  | 90.9 | 70-130 | 1.49  | 20 |  |
| Phenanthrene                    | 0.167              | 0.020 | "     | 0.200                                     | 0.003  | 81.9 | 70-130 | 3.72  | 20 |  |
| Pyrene                          | 0.167              | 0.020 | "     | 0.200                                     | 0.0006 | 83.3 | 70-130 | 0.699 | 20 |  |
| Surrogate: Fluorene-d10         | 200                |       | ug/kg | 200                                       |        | 100  | 60-130 |       |    |  |
| Surrogate: Anthracene-d10       | 190                |       | "     | 200                                       |        | 94.1 | 60-130 |       |    |  |
| Surrogate: Pyrene-d10           | 190                |       | "     | 200                                       |        | 95.0 | 60-130 |       |    |  |
| Surrogate: Benzo (a) pyrene-d12 | 210                |       | "     | 200                                       |        | 104  | 60-130 |       |    |  |

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KP Kauffman Co. Inc.  
 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

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

**Batch B4B2605 - Saturated Paste Metals**

**Blank (B4B2605-BLK1)**

Prepared: 02/26/2024 Analyzed: 02/29/2024

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

**Duplicate (B4B2605-DUP1)**

Source: Y402550-12

Prepared: 02/26/2024 Analyzed: 02/29/2024

|               |      |        |      |      |  |  |  |      |     |  |
|---------------|------|--------|------|------|--|--|--|------|-----|--|
| SAR           | ND   | 0.0100 | SAR  | 3.74 |  |  |  |      | 200 |  |
| Calcium PPM   | 75.8 | 10.0   | mg/L | 84.2 |  |  |  | 10.6 | 50  |  |
| Magnesium PPM | 57.7 | 10.0   | "    | 65.0 |  |  |  | 11.9 | 50  |  |
| Sodium PPM    | 177  | 10.0   | "    | 188  |  |  |  | 5.86 | 50  |  |

**Batch B4B2606 - Saturated Paste Metals**

**Blank (B4B2606-BLK1)**

Prepared: 02/26/2024 Analyzed: 02/29/2024

|               |    |        |      |  |  |  |  |  |  |  |
|---------------|----|--------|------|--|--|--|--|--|--|--|
| 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 (B4B2606-DUP1)**

Source: Y402579-03

Prepared: 02/26/2024 Analyzed: 02/29/2024

|               |      |        |      |        |  |  |  |      |     |  |
|---------------|------|--------|------|--------|--|--|--|------|-----|--|
| Calcium PPM   | 45.0 | 10.0   | mg/L | 60.5   |  |  |  | 29.5 | 50  |  |
| SAR           | ND   | 0.0100 | SAR  | 0.0420 |  |  |  |      | 200 |  |
| Magnesium PPM | 6.33 | 10.0   | mg/L | 8.80   |  |  |  | 32.7 | 50  |  |
| Sodium PPM    | 1.43 | 10.0   | "    | 1.32   |  |  |  | 8.00 | 50  |  |

**Batch B4C0111 - DTPA Sorbitol Preparation**

**Blank (B4C0111-BLK1)**

Prepared: 03/01/2024 Analyzed: 03/05/2024

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.  
 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

| Analyte  | Result | Reporting Limit           | Units | Spike Level | Source Result                             | %REC | %REC Limits | RPD  | RPD Limit | Notes |
|--|--------|---------------------------|-------|-------------|---|------|-------------|------|-----------|-------|
| <b>Batch B4C0111 - DTPA Sorbitol Preparation</b> |        |                           |       |             |   |      |             |      |           |       |
| <b>Blank (B4C0111-BLK1)</b>                      |        |                           |       |             | Prepared: 03/01/2024 Analyzed: 03/05/2024 |      |             |      |           |       |
| Boron  | ND     | 0.100                     | mg/L  |             |   |      |             |      |           |       |
| <b>Duplicate (B4C0111-DUP1)</b>                  |        | <b>Source: Y402579-01</b> |       |             | Prepared: 03/01/2024 Analyzed: 03/05/2024 |      |             |      |           |       |
| Boron  | 0.164  | 0.0998                    | mg/L  |             | 0.160                                     |      |             | 2.22 | 50        |       |
| <b>Batch B4C0112 - DTPA Sorbitol Preparation</b> |        |                           |       |             |   |      |             |      |           |       |
| <b>Blank (B4C0112-BLK1)</b>                      |        |                           |       |             | Prepared: 03/01/2024 Analyzed: 03/05/2024 |      |             |      |           |       |
| Boron  | ND     | 0.100                     | mg/L  |             |   |      |             |      |           |       |
| <b>Duplicate (B4C0112-DUP1)</b>                  |        | <b>Source: Y402579-07</b> |       |             | Prepared: 03/01/2024 Analyzed: 03/05/2024 |      |             |      |           |       |
| Boron  | 0.187  | 0.0991                    | mg/L  |             | 0.167                                     |      |             | 11.0 | 50        |       |

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.  
 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

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

**Batch B4B2614 - Saturated Paste pH/EC**

**Blank (B4B2614-BLK1)**

Prepared: 02/26/2024 Analyzed: 02/27/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4B2614-DUP1)**

**Source: Y402550-12**

Prepared: 02/26/2024 Analyzed: 02/27/2024

pH 7.66 pH Units 7.76 1.30 25

Specific Conductance (EC) 1.56 0.00500 mmhos/cm 1.65 5.65 25

**Batch B4B2615 - Saturated Paste pH/EC**

**Blank (B4B2615-BLK1)**

Prepared: 02/26/2024 Analyzed: 02/27/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4B2615-DUP1)**

**Source: Y402579-03**

Prepared: 02/26/2024 Analyzed: 02/27/2024

Specific Conductance (EC) 0.365 0.00500 mmhos/cm 0.463 23.5 25

pH 8.06 pH Units 7.95 1.37 25

Origins Laboratory, Inc.



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KP Kauffman Co. Inc.  
 1700 Lincoln St #4550  
 Denver CO 80203

John Peterson  
 Project Number: [none]  
 Project: Klein 24-8 Flowline

**Total Metals by 7196A - Quality Control**  
**Waypoint Analytical, LLC.**

| Analyte                  | Result | Reporting Limit                | Units | Spike Level | Source Result                  | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------|--------|--------------------------------|-------|-------------|--------------------------------|------|-------------|-----|-----------|-------|
| <b>Batch L737337 -</b>   |        |                                |       |             |                                |      |             |     |           |       |
| <b>DUP (L 98064-DUP)</b> |        | <b>Source: Y402579-01</b>      |       |             | Prepared: Analyzed: 03/08/2024 |      |             |     |           |       |
| Chromium, Hexavalent     | ND     | 0.5                            | mg/Kg |             | <0.500                         |      | -           | 0   | 20        |       |
| <b>MS (L 98064-MS)</b>   |        | <b>Source: Y402579-01</b>      |       |             | Prepared: Analyzed: 03/08/2024 |      |             |     |           |       |
| Chromium, Hexavalent     | 27.6   | 2.5                            | mg/Kg | 38.6        | < 0.244                        | 72   | 75-125      |     |           | *     |
| <b>LCS (LCS)</b>         |        | Prepared: Analyzed: 03/08/2024 |       |             |                                |      |             |     |           |       |
| Chromium, Hexavalent     | 6.28   | 0.5                            | mg/Kg | 8           |                                | 79   | 75-125      |     |           |       |
| <b>LRB (LRB)</b>         |        | Prepared: Analyzed: 03/08/2024 |       |             |                                |      |             |     |           |       |
| Chromium, Hexavalent     | ND     | 0.5                            | mg/Kg |             |                                |      | -           |     |           |       |

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KP Kauffman Co. Inc.  
1700 Lincoln St #4550  
Denver CO 80203

John Peterson  
Project Number: [none]  
Project: Klein 24-8 Flowline

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**Notes and Definitions**

U Sample is Non-Detect.

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

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

\* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

Origins Laboratory, Inc.



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