

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**HERMAN 1, L32-13JI, L32-14**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE LP**

| Soil Sample ID                | Depth (bgs) | Date       | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Total Xylenes (mg/kg) | DRO (mg/kg) | GRO (mg/kg) | ORO (mg/kg) | pH (su)    | Specific Conductance (mmhos/cm) |
|-------------------------------|-------------|------------|-----------------|-----------------|----------------------|-----------------------|-------------|-------------|-------------|------------|---------------------------------|
| E01 @ 4'                      | 4'          | 08/31/2016 | <0.050          | <0.050          | <0.050               | <0.050                | <25.0       | <5.00       | <100        | 7.38       | 0.174                           |
| N01 @ 4'                      | 4'          | 08/31/2016 | <0.050          | <0.050          | <0.050               | <0.050                | <25.0       | <5.00       | <100        | 7.46       | 0.189                           |
| S01 @ 4'                      | 4'          | 08/31/2016 | <0.050          | <0.050          | <0.050               | <0.050                | <25.0       | <5.00       | <100        | 7.41       | 0.150                           |
| W01 @ 4'                      | 4'          | 08/31/2016 | <0.050          | <0.050          | <0.050               | <0.050                | <25.0       | <5.00       | <100        | 7.93       | 0.211                           |
| <b>COGCC Allowable Levels</b> |             |            | <b>0.17</b>     | <b>85</b>       | <b>100</b>           | <b>175</b>            | <b>500*</b> | <b>500*</b> | <b>500*</b> | <b>6-9</b> | <b>4</b>                        |

Notes: bgs - below ground surface

COGCC - Colorado Oil and Gas Conservation Commission

DRO - diesel range organics

GRO - gasoline range organics

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter

NA - not analyzed/not available

ORO - oil range organics

su - standard units

\* - Standard applies to combined DRO-GRO-ORO

< - less than laboratory reporting limit

Bold indicates result exceeds allowable level



**TABLE 2**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**HERMAN 1, L32-13JI, L32-14**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE LP**

| Well Name    | Date       | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | Depth Water/ (Product Thickness) (ft bgs) |
|--------------|------------|----------------|----------------|---------------------|----------------------|---|
| GW01         | 08/31/2016 | <b>180</b>     | 220            | 316                 | <b>4890</b>          | 6.00                                      |
| <b>CGWQS</b> |            | <b>5</b>       | <b>1000</b>    | <b>700</b>          | <b>1400</b>          |   |

Notes: CGWQS - Colorado Groundwater Quality Standards  
ft bgs - feet below ground surface  
NA - not analyzed/not available  
NM - not measured

µg/L - micrograms per liter  
< - less than laboratory reporting limit  
Bold indicates result exceeds allowable level  
Excavation groundwater depth is approximate





September 01, 2016

LT Environmental, Inc.

John Cocroft

4600 West 60th Avenue

Arvada

CO 80003

**Project Name - KMG - Herman #1**

**Project Number - 014216157/WO# 891191**

Attached are your analytical results for KMG - Herman #1 received by Origins Laboratory, Inc. August 31, 2016. This project is associated with Origins project number X608351-01.

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

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: 014216157/WO# 89119134  
Project: KMG - Herman #1

### CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled          | Date Received    |
|-----------|---------------|--------|-----------------------|------------------|
| GW01      | X608351-01    | Water  | August 31, 2016 15:30 | 08/31/2016 17:22 |
| N01 @ 4'  | X608351-02    | Soil   | August 31, 2016 15:35 | 08/31/2016 17:22 |
| E01 @ 4'  | X608351-03    | Soil   | August 31, 2016 15:40 | 08/31/2016 17:22 |
| S01 @ 4'  | X608351-04    | Soil   | August 31, 2016 15:45 | 08/31/2016 17:22 |
| W01 @ 4'  | X608351-05    | Soil   | August 31, 2016 15:50 | 08/31/2016 17:22 |

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President



LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: 014216157/WO# 89119134  
Project: KMG - Herman #1

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: X608351

Client: LTE

Client Project ID: Herman #1

Checklist Completed by: Jeff Smith

Shipped Via: HTD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 8/31/16

Airbill #: D\*

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☒ Water ☐ Other: \_\_\_\_\_

Cooler Number/Temperature: 1 / 6.9 °C 1 / \_\_\_\_\_ °C 1 / \_\_\_\_\_ °C (Describe)

Thermometer ID: TB03

| 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  |     | Sampled Same Day  |
| 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   |    |     | PH                |
| 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? If yes, contact client and note in narrative.   |     | X  | X   | 8/31/16           |
| 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  | X   | 8/31/16           |
| 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)

Date/Time Reviewed

Origins Laboratory, Inc.

*Jeff Pellegrini*

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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: 014216157/WO# 89119134  
Project: KMG - Herman #1

## GW01

8/31/2016 3:30:00PM

| Analyte | Result | Reporting<br>Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|

## Origins Laboratory, Inc. X608351-01 (Water)

### BTEX by EPA 8260C

|                                  |       |        |      |    |         |            |            |  |
|----------------------------------|-------|--------|------|----|---------|------------|------------|--|
| Benzene                          | 180   | 4.00   | ug/L | 4  | B6H3104 | 08/31/2016 | 08/31/2016 |  |
| Toluene                          | 220   | 4.00   | "    | "  | "       | "          | "          |  |
| Ethylbenzene                     | 316   | 4.00   | "    | "  | "       | "          | "          |  |
| Xylenes, total                   | 4890  | 50.0   | "    | 50 | "       | "          | 08/31/2016 |  |
| Surrogate: 1,2-Dichloroethane-d4 | 106 % | 84-121 |      |    | "       | "          | 08/31/2016 |  |
| Surrogate: Toluene-d8            | 101 % | 85-115 |      |    | "       | "          | "          |  |
| Surrogate: 4-Bromofluorobenzene  | 101 % | 84-114 |      |    | "       | "          | "          |  |

Origins Laboratory, Inc.



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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: 014216157/WO# 89119134  
Project: KMG - Herman #1

N01 @ 4'  
8/31/2016 3:35:00PM

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

**Origins Laboratory, Inc.**  
**X608351-02 (Soil)**

**DRO/RRO by EPA8015C**

|                                   |    |      |       |   |         |            |            |   |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | ND | 25.0 | mg/kg | 1 | B6H3102 | 08/31/2016 | 08/31/2016 | U |
| Residual Range Organics (C28-C40) | ND | 100  | "     | " | "       | "          | "          | U |

Surrogate: o-Terphenyl 65.5 % 59-131 " " "

**GBTEX by EPA 8260C**

|                             |    |       |       |    |         |            |            |   |
|-----------------------------|----|-------|-------|----|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 5.00  | mg/kg | 25 | B6H3101 | 08/31/2016 | 08/31/2016 | U |
| Benzene                     | ND | 0.050 | "     | "  | "       | "          | "          | U |
| Toluene                     | ND | 0.050 | "     | "  | "       | "          | "          | U |
| Ethylbenzene                | ND | 0.050 | "     | "  | "       | "          | "          | U |
| Xylenes, total              | ND | 0.050 | "     | "  | "       | "          | "          | U |

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "  
Surrogate: Toluene-d8 94.0 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 98.4 % 70-130 " " "

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 7.46 |  | pH Units | 1 | B6H3107 | 08/31/2016 | 08/31/2016 |  |
|----|------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |       |  |          |   |         |   |            |  |
|---------------------------|-------|--|----------|---|---------|---|------------|--|
| Specific Conductance (EC) | 0.189 |  | mmhos/cm | " | B6H3108 | " | 08/31/2016 |  |
|---------------------------|-------|--|----------|---|---------|---|------------|--|

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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: 014216157/WO# 89119134  
Project: KMG - Herman #1

E01 @ 4'  
8/31/2016 3:40:00PM

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

**Origins Laboratory, Inc.**  
**X608351-03 (Soil)**

**DRO/RRO by EPA8015C**

|                                   |    |      |       |   |         |            |            |   |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | ND | 25.0 | mg/kg | 1 | B6H3102 | 08/31/2016 | 08/31/2016 | U |
| Residual Range Organics (C28-C40) | ND | 100  | "     | " | "       | "          | "          | U |

Surrogate: o-Terphenyl 65.1 % 59-131 " " "

**GBTEX by EPA 8260C**

|                             |    |       |       |    |         |            |            |   |
|-----------------------------|----|-------|-------|----|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 5.00  | mg/kg | 25 | B6H3101 | 08/31/2016 | 08/31/2016 | U |
| Benzene                     | ND | 0.050 | "     | "  | "       | "          | "          | U |
| Toluene                     | ND | 0.050 | "     | "  | "       | "          | "          | U |
| Ethylbenzene                | ND | 0.050 | "     | "  | "       | "          | "          | U |
| Xylenes, total              | ND | 0.050 | "     | "  | "       | "          | "          | U |

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "  
Surrogate: Toluene-d8 95.7 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 7.38 |  | pH Units | 1 | B6H3107 | 08/31/2016 | 08/31/2016 |  |
|----|------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |       |  |          |   |         |   |            |  |
|---------------------------|-------|--|----------|---|---------|---|------------|--|
| Specific Conductance (EC) | 0.174 |  | mmhos/cm | " | B6H3108 | " | 08/31/2016 |  |
|---------------------------|-------|--|----------|---|---------|---|------------|--|

Origins Laboratory, Inc.



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4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: 014216157/WO# 89119134  
Project: KMG - Herman #1

**S01 @ 4'**  
**8/31/2016 3:45:00PM**

| Analyte | Result | Reporting<br>Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|

**Origins Laboratory, Inc.**  
**X608351-04 (Soil)**

**DRO/RRO by EPA8015C**

|                                   |    |      |       |   |         |            |            |   |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | ND | 25.0 | mg/kg | 1 | B6H3102 | 08/31/2016 | 08/31/2016 | U |
| Residual Range Organics (C28-C40) | ND | 100  | "     | " | "       | "          | "          | U |

Surrogate: o-Terphenyl 59.3 % 59-131 " " "

**GBTEX by EPA 8260C**

|                             |    |       |       |    |         |            |            |   |
|-----------------------------|----|-------|-------|----|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 5.00  | mg/kg | 25 | B6H3101 | 08/31/2016 | 08/31/2016 | U |
| Benzene                     | ND | 0.050 | "     | "  | "       | "          | "          | U |
| Toluene                     | ND | 0.050 | "     | "  | "       | "          | "          | U |
| Ethylbenzene                | ND | 0.050 | "     | "  | "       | "          | "          | U |
| Xylenes, total              | ND | 0.050 | "     | "  | "       | "          | "          | U |

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "  
Surrogate: Toluene-d8 95.7 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 99.7 % 70-130 " " "

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 7.41 |  | pH Units | 1 | B6H3107 | 08/31/2016 | 08/31/2016 |  |
|----|------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |       |  |          |   |         |   |            |  |
|---------------------------|-------|--|----------|---|---------|---|------------|--|
| Specific Conductance (EC) | 0.150 |  | mmhos/cm | " | B6H3108 | " | 08/31/2016 |  |
|---------------------------|-------|--|----------|---|---------|---|------------|--|

Origins Laboratory, Inc.



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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: 014216157/WO# 89119134  
Project: KMG - Herman #1

W01 @ 4'  
8/31/2016 3:50:00PM

| Analyte | Result | Reporting<br>Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|-------|

**Origins Laboratory, Inc.**  
**X608351-05 (Soil)**

**DRO/RRO by EPA8015C**

|                                   |    |      |       |   |         |            |            |   |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | ND | 25.0 | mg/kg | 1 | B6H3102 | 08/31/2016 | 08/31/2016 | U |
| Residual Range Organics (C28-C40) | ND | 100  | "     | " | "       | "          | "          | U |

Surrogate: o-Terphenyl 60.8 % 59-131 " " "

**GBTEX by EPA 8260C**

|                             |    |       |       |    |         |            |            |   |
|-----------------------------|----|-------|-------|----|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 5.00  | mg/kg | 25 | B6H3101 | 08/31/2016 | 08/31/2016 | U |
| Benzene                     | ND | 0.050 | "     | "  | "       | "          | "          | U |
| Toluene                     | ND | 0.050 | "     | "  | "       | "          | "          | U |
| Ethylbenzene                | ND | 0.050 | "     | "  | "       | "          | "          | U |
| Xylenes, total              | ND | 0.050 | "     | "  | "       | "          | "          | U |

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "  
Surrogate: Toluene-d8 96.9 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 7.93 |  | pH Units | 1 | B6H3107 | 08/31/2016 | 08/31/2016 |  |
|----|------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |       |  |          |   |         |   |            |  |
|---------------------------|-------|--|----------|---|---------|---|------------|--|
| Specific Conductance (EC) | 0.211 |  | mmhos/cm | " | B6H3108 | " | 08/31/2016 |  |
|---------------------------|-------|--|----------|---|---------|---|------------|--|

Origins Laboratory, Inc.



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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: 014216157/WO# 89119134  
Project: KMG - Herman #1

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

| Analyte                                | Result | Reporting Limit | Units | Spike Level | Source Result                             | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B6H3101 - EPA 5030 (soil)</b> |        |                 |       |             |   |      |             |     |           |       |
| <b>Blank (B6H3101-BLK1)</b>            |        |                 |       |             | Prepared: 08/31/2016 Analyzed: 08/31/2016 |      |             |     |           |       |
| Gasoline Range Hydrocarbons            | ND     | 0.200           | mg/kg |             |   |      |             |     |           | U     |
| Benzene                                | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Toluene                                | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Ethylbenzene                           | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Xylenes, total                         | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Surrogate: 1,2-Dichloroethane-d4       | 67     |                 | ug/kg | 62.5        |   | 107  | 70-130      |     |           |       |
| Surrogate: Toluene-d8                  | 61     |                 | "     | 62.5        |   | 97.7 | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene        | 64     |                 | "     | 62.5        |   | 103  | 70-130      |     |           |       |

Origins Laboratory, Inc.



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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: 014216157/WO# 89119134  
Project: KMG - Herman #1

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

| Analyte                                | Result | Reporting Limit | Units | Spike Level | Source Result                             | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B6H3101 - EPA 5030 (soil)</b> |        |                 |       |             |   |      |             |     |           |       |
| <b>Blank (B6H3101-BLK2)</b>            |        |                 |       |             | Prepared: 08/31/2016 Analyzed: 08/31/2016 |      |             |     |           |       |
| Gasoline Range Hydrocarbons            | ND     | 0.200           | mg/kg |             |   |      |             |     |           | U     |
| Benzene                                | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Toluene                                | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Ethylbenzene                           | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Xylenes, total                         | ND     | 0.002           | "     |             |   |      |             |     |           | U     |
| Surrogate: 1,2-Dichloroethane-d4       | 68     |                 | ug/kg | 62.5        |   | 110  | 70-130      |     |           |       |
| Surrogate: Toluene-d8                  | 61     |                 | "     | 62.5        |   | 97.1 | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene        | 64     |                 | "     | 62.5        |   | 102  | 70-130      |     |           |       |

Origins Laboratory, Inc.



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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: 014216157/WO# 89119134  
Project: KMG - Herman #1

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

| Analyte                                | Result | Reporting Limit | Units | Spike Level | Source Result                             | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B6H3101 - EPA 5030 (soil)</b> |        |                 |       |             |   |      |             |     |           |       |
| <b>LCS (B6H3101-BS1)</b>               |        |                 |       |             | Prepared: 08/31/2016 Analyzed: 08/31/2016 |      |             |     |           |       |
| Benzene                                | 0.106  | 0.002           | mg/kg | 0.100       |   | 106  | 77.1-124    |     |           |       |
| Toluene                                | 0.105  | 0.002           | "     | 0.100       |   | 105  | 74.5-128    |     |           |       |
| Ethylbenzene                           | 0.104  | 0.002           | "     | 0.100       |   | 104  | 66.4-127    |     |           |       |
| m,p-Xylene                             | 0.205  | 0.004           | "     | 0.200       |   | 102  | 76.6-124    |     |           |       |
| o-Xylene                               | 0.104  | 0.002           | "     | 0.100       |   | 104  | 76.6-124    |     |           |       |
| Surrogate: 1,2-Dichloroethane-d4       | 65     |                 | ug/kg | 62.5        |   | 104  | 70-130      |     |           |       |
| Surrogate: Toluene-d8                  | 64     |                 | "     | 62.5        |   | 102  | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene        | 62     |                 | "     | 62.5        |   | 99.5 | 70-130      |     |           |       |

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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: 014216157/WO# 89119134  
Project: KMG - Herman #1

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

| Analyte                                | Result | Reporting Limit | Units | Spike Level | Source Result                             | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B6H3101 - EPA 5030 (soil)</b> |        |                 |       |             |   |      |             |     |           |       |
| <b>LCS (B6H3101-BS2)</b>               |        |                 |       |             | Prepared: 08/31/2016 Analyzed: 08/31/2016 |      |             |     |           |       |
| Benzene                                | 0.095  | 0.002           | mg/kg | 0.100       |   | 94.9 | 77.1-124    |     |           |       |
| Toluene                                | 0.094  | 0.002           | "     | 0.100       |   | 94.0 | 74.5-128    |     |           |       |
| Ethylbenzene                           | 0.093  | 0.002           | "     | 0.100       |   | 93.3 | 66.4-127    |     |           |       |
| m,p-Xylene                             | 0.185  | 0.004           | "     | 0.200       |   | 92.5 | 76.6-124    |     |           |       |
| o-Xylene                               | 0.094  | 0.002           | "     | 0.100       |   | 94.4 | 76.6-124    |     |           |       |
| Surrogate: 1,2-Dichloroethane-d4       | 67     |                 | ug/kg | 62.5        |   | 106  | 70-130      |     |           |       |
| Surrogate: Toluene-d8                  | 64     |                 | "     | 62.5        |   | 102  | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene        | 61     |                 | "     | 62.5        |   | 98.0 | 70-130      |     |           |       |

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John Cocroft  
Project Number: 014216157/WO# 89119134  
Project: KMG - Herman #1

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

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

**Batch B6H3101 - EPA 5030 (soil)**

| Matrix Spike (B6H3101-MS1)       |       | Source: X608300-01 |       |       | Prepared: 08/31/2016 Analyzed: 08/31/2016 |      |          |  |  |  |
|----------------------------------|-------|--------------------|-------|-------|---|------|----------|--|--|--|
| Benzene                          | 0.095 | 0.002              | mg/kg | 0.100 | ND  | 94.7 | 71.8-126 |  |  |  |
| Toluene                          | 0.096 | 0.002              | "     | 0.100 | ND  | 96.4 | 65.1-130 |  |  |  |
| Ethylbenzene                     | 0.094 | 0.002              | "     | 0.100 | ND  | 93.9 | 62.2-130 |  |  |  |
| m,p-Xylene                       | 0.188 | 0.004              | "     | 0.200 | ND  | 93.8 | 46.5-137 |  |  |  |
| o-Xylene                         | 0.095 | 0.002              | "     | 0.100 | ND  | 95.5 | 54.2-134 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 66    |                    | ug/kg | 62.5  |   | 105  | 70-130   |  |  |  |
| Surrogate: Toluene-d8            | 64    |                    | "     | 62.5  |   | 103  | 70-130   |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 62    |                    | "     | 62.5  |   | 98.6 | 70-130   |  |  |  |

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Project: KMG - Herman #1

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

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

**Batch B6H3101 - EPA 5030 (soil)**

| Matrix Spike (B6H3101-MS2)       |       | Source: X608300-02 |       |       | Prepared: 08/31/2016 Analyzed: 08/31/2016 |      |          |  |  |  |
|----------------------------------|-------|--------------------|-------|-------|---|------|----------|--|--|--|
| Benzene                          | 0.087 | 0.002              | mg/kg | 0.100 | ND  | 86.8 | 71.8-126 |  |  |  |
| Toluene                          | 0.087 | 0.002              | "     | 0.100 | ND  | 87.3 | 65.1-130 |  |  |  |
| Ethylbenzene                     | 0.089 | 0.002              | "     | 0.100 | ND  | 88.7 | 62.2-130 |  |  |  |
| m,p-Xylene                       | 0.177 | 0.004              | "     | 0.200 | ND  | 88.7 | 46.5-137 |  |  |  |
| o-Xylene                         | 0.089 | 0.002              | "     | 0.100 | ND  | 89.0 | 54.2-134 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 67    |                    | ug/kg | 62.5  |   | 107  | 70-130   |  |  |  |
| Surrogate: Toluene-d8            | 63    |                    | "     | 62.5  |   | 101  | 70-130   |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 63    |                    | "     | 62.5  |   | 101  | 70-130   |  |  |  |

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Project: KMG - Herman #1

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

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

**Batch B6H3101 - EPA 5030 (soil)**

| Matrix Spike Dup (B6H3101-MSD1)  |       | Source: X608300-01 |       |       | Prepared: 08/31/2016 Analyzed: 08/31/2016 |      |          |  |      |  |
|----------------------------------|-------|--------------------|-------|-------|---|------|----------|--|------|--|
| Benzene                          | 0.073 | 0.002              | mg/kg | 0.100 | ND  | 73.2 | 71.8-126 |  | 11.3 |  |
| Toluene                          | 0.069 | 0.002              | "     | 0.100 | ND  | 68.7 | 65.1-130 |  | 15.4 |  |
| Ethylbenzene                     | 0.064 | 0.002              | "     | 0.100 | ND  | 64.0 | 62.2-130 |  | 19.6 |  |
| m,p-Xylene                       | 0.128 | 0.004              | "     | 0.200 | ND  | 64.1 | 46.5-137 |  | 19.2 |  |
| o-Xylene                         | 0.064 | 0.002              | "     | 0.100 | ND  | 63.6 | 54.2-134 |  | 17.9 |  |
| Surrogate: 1,2-Dichloroethane-d4 | 67    |                    | ug/kg | 62.5  |   | 107  | 70-130   |  |      |  |
| Surrogate: Toluene-d8            | 62    |                    | "     | 62.5  |   | 99.1 | 70-130   |  |      |  |
| Surrogate: 4-Bromofluorobenzene  | 62    |                    | "     | 62.5  |   | 99.3 | 70-130   |  |      |  |

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John Cocroft  
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Project: KMG - Herman #1

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

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

**Batch B6H3101 - EPA 5030 (soil)**

| Matrix Spike Dup (B6H3101-MSD2)  |       | Source: X608300-02 |       |       | Prepared: 08/31/2016 Analyzed: 08/31/2016 |      |          |      |      |  |
|----------------------------------|-------|--------------------|-------|-------|---|------|----------|------|------|--|
| Benzene                          | 0.092 | 0.002              | mg/kg | 0.100 | ND  | 91.8 | 71.8-126 | 5.67 | 11.3 |  |
| Toluene                          | 0.093 | 0.002              | "     | 0.100 | ND  | 93.2 | 65.1-130 | 6.56 | 15.4 |  |
| Ethylbenzene                     | 0.091 | 0.002              | "     | 0.100 | ND  | 91.2 | 62.2-130 | 2.87 | 19.6 |  |
| m,p-Xylene                       | 0.184 | 0.004              | "     | 0.200 | ND  | 92.1 | 46.5-137 | 3.75 | 19.2 |  |
| o-Xylene                         | 0.093 | 0.002              | "     | 0.100 | ND  | 92.7 | 54.2-134 | 4.12 | 17.9 |  |
| Surrogate: 1,2-Dichloroethane-d4 | 67    |                    | ug/kg | 62.5  |   | 107  | 70-130   |      |      |  |
| Surrogate: Toluene-d8            | 64    |                    | "     | 62.5  |   | 102  | 70-130   |      |      |  |
| Surrogate: 4-Bromofluorobenzene  | 63    |                    | "     | 62.5  |   | 101  | 70-130   |      |      |  |

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Project: KMG - Herman #1

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

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

**Batch B6H3104 - EPA 5030B (Water)**

**Blank (B6H3104-BLK1)**

Prepared: 08/31/2016 Analyzed: 08/31/2016

|                                  |    |      |      |      |      |  |        |  |  |   |
|----------------------------------|----|------|------|------|------|--|--------|--|--|---|
| Benzene                          | ND | 1.00 | ug/L |      |      |  |        |  |  | U |
| Toluene                          | ND | 1.00 | "    |      |      |  |        |  |  | U |
| Ethylbenzene                     | ND | 1.00 | "    |      |      |  |        |  |  | U |
| Xylenes, total                   | ND | 1.00 | "    |      |      |  |        |  |  | U |
| Surrogate: 1,2-Dichloroethane-d4 | 64 |      | "    | 62.5 | 103  |  | 84-121 |  |  |   |
| Surrogate: Toluene-d8            | 63 |      | "    | 62.5 | 101  |  | 85-115 |  |  |   |
| Surrogate: 4-Bromofluorobenzene  | 62 |      | "    | 62.5 | 98.5 |  | 84-114 |  |  |   |

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Project: KMG - Herman #1

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

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

**Batch B6H3104 - EPA 5030B (Water)**

**LCS (B6H3104-BS1)**

Prepared: 08/31/2016 Analyzed: 08/31/2016

|                                  |      |      |      |      |      |          |
|----------------------------------|------|------|------|------|------|----------|
| Benzene                          | 53.7 | 1.00 | ug/L | 50.0 | 107  | 73.3-129 |
| Toluene                          | 52.4 | 1.00 | "    | 50.0 | 105  | 76.2-123 |
| Ethylbenzene                     | 55.8 | 1.00 | "    | 50.0 | 112  | 73.6-130 |
| m,p-Xylene                       | 108  | 2.00 | "    | 100  | 108  | 76.1-126 |
| o-Xylene                         | 52.3 | 1.00 | "    | 50.0 | 105  | 76.6-124 |
| Surrogate: 1,2-Dichloroethane-d4 | 62   |      | "    | 62.5 | 99.7 | 84-121   |
| Surrogate: Toluene-d8            | 63   |      | "    | 62.5 | 100  | 85-115   |
| Surrogate: 4-Bromofluorobenzene  | 63   |      | "    | 62.5 | 101  | 84-114   |

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Project: KMG - Herman #1

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

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

**Batch B6H3104 - EPA 5030B (Water)**

| Matrix Spike (B6H3104-MS1)       |      | Source: X608276-02 |      |      | Prepared: 08/31/2016 Analyzed: 08/31/2016 |      |        |  |  |  |
|----------------------------------|------|--------------------|------|------|---|------|--------|--|--|--|
| Benzene                          | 53.4 | 1.00               | ug/L | 50.0 | ND  | 107  | 74-130 |  |  |  |
| Toluene                          | 51.8 | 1.00               | "    | 50.0 | ND  | 104  | 73-131 |  |  |  |
| Ethylbenzene                     | 56.1 | 1.00               | "    | 50.0 | ND  | 112  | 76-132 |  |  |  |
| m,p-Xylene                       | 111  | 2.00               | "    | 100  | ND  | 111  | 69-139 |  |  |  |
| o-Xylene                         | 51.4 | 1.00               | "    | 50.0 | ND  | 103  | 74-131 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 64   |                    | "    | 62.5 |   | 102  | 84-121 |  |  |  |
| Surrogate: Toluene-d8            | 61   |                    | "    | 62.5 |   | 97.6 | 85-115 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 63   |                    | "    | 62.5 |   | 100  | 84-114 |  |  |  |

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Project: KMG - Herman #1

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

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

**Batch B6H3104 - EPA 5030B (Water)**

| Matrix Spike Dup (B6H3104-MSD1)  |      | Source: X608276-02 |      |      | Prepared: 08/31/2016 Analyzed: 08/31/2016 |      |        |      |    |  |
|----------------------------------|------|--------------------|------|------|---|------|--------|------|----|--|
| Benzene                          | 58.0 | 1.00               | ug/L | 50.0 | ND  | 116  | 74-130 | 8.30 | 20 |  |
| Toluene                          | 56.2 | 1.00               | "    | 50.0 | ND  | 112  | 73-131 | 8.28 | 20 |  |
| Ethylbenzene                     | 60.4 | 1.00               | "    | 50.0 | ND  | 121  | 76-132 | 7.38 | 20 |  |
| m,p-Xylene                       | 120  | 2.00               | "    | 100  | ND  | 120  | 69-139 | 7.96 | 20 |  |
| o-Xylene                         | 55.8 | 1.00               | "    | 50.0 | ND  | 112  | 74-131 | 8.20 | 20 |  |
| Surrogate: 1,2-Dichloroethane-d4 | 64   |                    | "    | 62.5 |   | 102  | 84-121 |      |    |  |
| Surrogate: Toluene-d8            | 60   |                    | "    | 62.5 |   | 95.4 | 85-115 |      |    |  |
| Surrogate: 4-Bromofluorobenzene  | 59   |                    | "    | 62.5 |   | 94.9 | 84-114 |      |    |  |

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Project: KMG - Herman #1

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

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

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

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

**Batch B6H3102 - EPA 3580**

**Blank (B6H3102-BLK1)**

Prepared: 08/31/2016 Analyzed: 08/31/2016

|                                   |    |      |       |      |  |      |        |  |  |   |
|-----------------------------------|----|------|-------|------|--|------|--------|--|--|---|
| Diesel (C10-C28)                  | ND | 50.0 | mg/kg |      |  |      |        |  |  | U |
| Residual Range Organics (C28-C40) | ND | 200  | "     |      |  |      |        |  |  | U |
| Surrogate: o-Terphenyl            | 44 |      | "     | 50.0 |  | 87.1 | 59-131 |  |  |   |

**LCS (B6H3102-BS1)**

Prepared: 08/31/2016 Analyzed: 08/31/2016

|                                   |      |      |       |      |  |      |        |  |  |  |
|-----------------------------------|------|------|-------|------|--|------|--------|--|--|--|
| Diesel (C10-C28)                  | 1090 | 50.0 | mg/kg | 1000 |  | 109  | 64-121 |  |  |  |
| Residual Range Organics (C28-C40) | 926  | 200  | "     | 1000 |  | 92.6 | 58-124 |  |  |  |
| Surrogate: o-Terphenyl            | 52   |      | "     | 50.0 |  | 104  | 59-131 |  |  |  |

**Matrix Spike (B6H3102-MS1)**

**Source: X608300-03**

Prepared: 08/31/2016 Analyzed: 08/31/2016

|                                   |      |      |       |      |      |      |        |  |  |  |
|-----------------------------------|------|------|-------|------|------|------|--------|--|--|--|
| Diesel (C10-C28)                  | 1060 | 50.0 | mg/kg | 1000 | 78.7 | 98.5 | 53-125 |  |  |  |
| Residual Range Organics (C28-C40) | 950  | 200  | "     | 1000 | 74.4 | 87.5 | 47-133 |  |  |  |
| Surrogate: o-Terphenyl            | 44   |      | "     | 50.0 |      | 87.4 | 59-131 |  |  |  |

**Matrix Spike Dup (B6H3102-MSD1)**

**Source: X608300-03**

Prepared: 08/31/2016 Analyzed: 08/31/2016

|                                   |      |      |       |      |      |      |        |       |    |  |
|-----------------------------------|------|------|-------|------|------|------|--------|-------|----|--|
| Diesel (C10-C28)                  | 1060 | 50.0 | mg/kg | 1000 | 78.7 | 98.3 | 53-125 | 0.231 | 20 |  |
| Residual Range Organics (C28-C40) | 958  | 200  | "     | 1000 | 74.4 | 88.3 | 47-133 | 0.940 | 20 |  |
| Surrogate: o-Terphenyl            | 46   |      | "     | 50.0 |      | 92.8 | 59-131 |       |    |  |

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Project: KMG - Herman #1

## 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 B6H3107 - NO PREP</b>  |         |   |          |             |   |      |             |      |           |       |
| <b>Duplicate (B6H3107-DUP1)</b> |         | <b>Source: X608351-02</b>                 |          |             | Prepared: 08/31/2016 Analyzed: 08/31/2016 |      |             |      |           |       |
| pH                              | 7.36    |   | pH Units |             | 7.46                                      |      |             | 1.35 | 25        |       |
| <b>Batch B6H3108 - NO PREP</b>  |         |   |          |             |   |      |             |      |           |       |
| <b>Blank (B6H3108-BLK1)</b>     |         | Prepared: 08/31/2016 Analyzed: 08/31/2016 |          |             |   |      |             |      |           |       |
| Specific Conductance (EC)       | 0.00320 |   | mmhos/cm |             |   |      |             |      |           |       |
| <b>Duplicate (B6H3108-DUP1)</b> |         | <b>Source: X608351-02</b>                 |          |             | Prepared: 08/31/2016 Analyzed: 08/31/2016 |      |             |      |           |       |
| Specific Conductance (EC)       | 0.180   |   | mmhos/cm |             | 0.189                                     |      |             | 4.89 | 25        |       |

Origins Laboratory, Inc.



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

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Arvada CO 80003

John Cocroft  
Project Number: 014216157/WO# 89119134  
Project: KMG - Herman #1

### Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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