

September 18, 2017

LT Environmental, Inc.

Chris Purcell

4600 West 60th Avenue

Arvada CO 80003

Project Name - Ritchey 26

Project Number - 066017003

Attached are your analytical results for Ritchey 26 received by Origins Laboratory, Inc. September 11, 2017. This project is associated with Origins project number Y709138-01.

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



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

Chris Purcell  
Project Number: 066017003  
Project: Ritchey 26

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled             | Date Received    |
|-----------|---------------|--------|--------------------------|------------------|
| S1@1'     | Y709138-01    | Soil   | September 11, 2017 11:05 | 09/11/2017 14:45 |
| S2@1'     | Y709138-02    | Soil   | September 11, 2017 12:05 | 09/11/2017 14:45 |
| S3@1'     | Y709138-03    | Soil   | September 11, 2017 12:10 | 09/11/2017 14:45 |
| S4@1'     | Y709138-04    | Soil   | September 11, 2017 12:15 | 09/11/2017 14:45 |
| S5@1'     | Y709138-05    | Soil   | September 11, 2017 13:00 | 09/11/2017 14:45 |
| S6@1'     | Y709138-06    | Soil   | September 11, 2017 13:30 | 09/11/2017 14:45 |

Origins Laboratory, Inc.



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

Chris Purcell  
 Project Number: 066017003  
 Project: Ritchey 26



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170138

page 1 of 1

Client: LT Environmental  
 Address: 4600 W. 60th Ave.  
Arvada CO 80003  
 Telephone Number: 303 433 9786  
 Email Address: cpurcell@ltenv.com

Project Manager: Chris Purcell  
 Project Name: Ritchey 26  
 Project Number: 066017003  
 Samples Collected By: Jeff Braden

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

| Sample ID Description               | Date Sampled  | Time Sampled | # of Containers | Preservative                    |               |                  |               | Matrix      |                                                                                                                                                                     |             | Analysis |             |    | Sample Instructions |
|-------------------------------------|---------------|--------------|-----------------|---------------------------------|---------------|------------------|---------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------|-------------|----|---------------------|
|                                     |               |              |                 | Unpreserved                     | HCl           | HNO <sub>3</sub> | Other         | Groundwater | Soil                                                                                                                                                                | Air Summa # | Other    | TPH (Gr. #) | PH |                     |
| S1@1'                               | 9-11-17       | 1105         | 2               |                                 |               |                  |               | X           |                                                                                                                                                                     |             |          | X           | X  | 1                   |
| S2@1'                               |               | 1205         | 2               |                                 |               |                  |               | X           |                                                                                                                                                                     |             |          | X           | X  | 2                   |
| S3@1'                               |               | 1210         | 2               |                                 |               |                  |               | X           |                                                                                                                                                                     |             |          | X           | X  | 3                   |
| S4@1'                               |               | 1215         | 2               |                                 |               |                  |               | X           |                                                                                                                                                                     |             |          | X           | X  | 4                   |
| S5@1'                               |               | 1300         | 2               |                                 |               |                  |               | X           |                                                                                                                                                                     |             |          | X           | X  | 5                   |
| S6@1'                               |               | 1330         | 2               |                                 |               |                  |               | X           |                                                                                                                                                                     |             |          | X           | X  | 6                   |
|                                     |               |              |                 |                                 |               |                  |               |             |                                                                                                                                                                     |             |          |             |    | 7                   |
|                                     |               |              |                 |                                 |               |                  |               |             |                                                                                                                                                                     |             |          |             |    | 8                   |
|                                     |               |              |                 |                                 |               |                  |               |             |                                                                                                                                                                     |             |          |             |    | 9                   |
|                                     |               |              |                 |                                 |               |                  |               |             |                                                                                                                                                                     |             |          |             |    | 10                  |
| Relinquished By: <u>[Signature]</u> | Date: 9-11-17 | Time: 1445   | Time: 1445      | Received By: <u>[Signature]</u> | Date: 9-11-17 | Time: 1445       | Date: 9-11-17 | Time: 1445  | Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard |             |          |             |    |                     |
| Relinquished By:                    | Date:         | Time:        | Time:           | Received By:                    | Date:         | Time:            | Date:         | Time:       |                                                                                                                                                                     |             |          |             |    |                     |

Temp Received: 55°C Date Results Needed

Origins Laboratory, Inc.

*Jeff Pellegrini*

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

Chris Purcell  
 Project Number: 066017003  
 Project: Ritchey 26

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

**Sample Receipt Checklist**

Origins Work Order: Y705132 Client: LTE  
 Client Project ID: Ritchey 26 26

Checklist Completed by: Dina Lu Shipped Via: HD  
 Date/time completed: 9-12-12 1104 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: NP

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1 15.5 °C 1 °C 1 °C (Describe) °C  
 Thermometer ID: T003

| 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> ?                                                                                                                                                                                                                                                                                                                           |                                     | <input checked="" type="checkbox"/> |                                     | Sampled same Day  |
| Is there ice present (document if blue ice is used)                                                                                                                                                                                                                                                                                                                                                             | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)                                                                                                                                                                                                                                                                                               |                                     | <input checked="" type="checkbox"/> |                                     |                   |
| Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)                                                                                                                                                                                                                                                                                |                                     | <input checked="" type="checkbox"/> |                                     |                   |
| Were all samples received intact <sup>(1)</sup> ?                                                                                                                                                                                                                                                                                                                                                               | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Was adequate sample volume provided <sup>(1)</sup> ?                                                                                                                                                                                                                                                                                                                                                            | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?                                                                                                                                                                                                                                                                                                                | <input checked="" type="checkbox"/> |                                     |                                     | pH                |
| Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?                                                                                                                                                                                                                                                                                                                                  | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?                                                                                                                                                                                                                                                                                                                         | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?                                                                                                                                                                                                                                                                                                                                           | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?                                                                                                                                                                                                                                                                                                                     | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>                                                                                                                                                                                                                                                                                     |                                     |                                     | <input checked="" type="checkbox"/> |                   |
| 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) |                                     | <input checked="" type="checkbox"/> |                                     |                   |
| 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: [Signature] (Project Manager) Date/Time Reviewed: 9/13/12

Origins Laboratory, Inc.

*Jefe Pellegrini*

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

Chris Purcell  
 Project Number: 066017003  
 Project: Ritchey 26

S1@1'  
 9/11/2017 11:05:00AM

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

**Origins Laboratory, Inc.**  
 Y709138-01 (Soil)

**DRO/RRO by EPA8015C**

|                                   |     |      |       |   |         |            |            |   |
|-----------------------------------|-----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | 198 | 50.0 | mg/kg | 1 | B711306 | 09/13/2017 | 09/13/2017 |   |
| Residual Range Organics (C28-C40) | ND  | 200  | "     | " | "       | "          | "          | U |

Surrogate: o-Terphenyl 89.5 % 59-131 " " "

**GBTEX by EPA 8260C**

|                             |       |       |       |   |         |            |            |  |
|-----------------------------|-------|-------|-------|---|---------|------------|------------|--|
| Gasoline Range Hydrocarbons | 7.04  | 0.200 | mg/kg | 1 | B711302 | 09/13/2017 | 09/13/2017 |  |
| Benzene                     | 0.009 | 0.002 | "     | " | "       | "          | "          |  |
| Toluene                     | 0.055 | 0.002 | "     | " | "       | "          | "          |  |
| Ethylbenzene                | 0.038 | 0.002 | "     | " | "       | "          | "          |  |
| Xylenes, total              | 0.246 | 0.002 | "     | " | "       | "          | "          |  |

Surrogate: 1,2-Dichloroethane-d4 100 % 70-130 " " "

Surrogate: Toluene-d8 79.9 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 113 % 70-130 " " "

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.06 |  | pH Units | 1 | B711307 | 09/13/2017 | 09/14/2017 |  |
|----|------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |        |  |          |   |         |   |   |  |
|---------------------------|--------|--|----------|---|---------|---|---|--|
| Specific Conductance (EC) | 0.0537 |  | mmhos/cm | " | B711308 | " | " |  |
|---------------------------|--------|--|----------|---|---------|---|---|--|

Origins Laboratory, Inc.



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

Chris Purcell  
 Project Number: 066017003  
 Project: Ritchey 26

S2@1'

9/11/2017 12:05:00PM

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

**Origins Laboratory, Inc.**  
 Y709138-02 (Soil)

**DRO/RRO by EPA8015C**

|                                   |     |      |       |   |         |            |            |   |
|-----------------------------------|-----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | 184 | 50.0 | mg/kg | 1 | B711306 | 09/13/2017 | 09/14/2017 |   |
| Residual Range Organics (C28-C40) | ND  | 200  | "     | " | "       | "          | "          | U |

Surrogate: *o*-Terphenyl 90.2 % 59-131 " " "

**GBTEX by EPA 8260C**

|                             |       |       |       |   |         |            |            |  |
|-----------------------------|-------|-------|-------|---|---------|------------|------------|--|
| Gasoline Range Hydrocarbons | 4.57  | 0.200 | mg/kg | 1 | B711302 | 09/13/2017 | 09/14/2017 |  |
| Benzene                     | 0.007 | 0.002 | "     | " | "       | "          | "          |  |
| Toluene                     | 0.045 | 0.002 | "     | " | "       | "          | "          |  |
| Ethylbenzene                | 0.022 | 0.002 | "     | " | "       | "          | "          |  |
| Xylenes, total              | 0.146 | 0.002 | "     | " | "       | "          | "          |  |

Surrogate: 1,2-Dichloroethane-d4 98.5 % 70-130 " " "  
 Surrogate: Toluene-d8 85.9 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 7.94 |  | pH Units | 1 | B711307 | 09/13/2017 | 09/14/2017 |  |
|----|------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |        |  |          |   |         |   |   |  |
|---------------------------|--------|--|----------|---|---------|---|---|--|
| Specific Conductance (EC) | 0.0398 |  | mmhos/cm | " | B711308 | " | " |  |
|---------------------------|--------|--|----------|---|---------|---|---|--|

Origins Laboratory, Inc.



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

Chris Purcell  
 Project Number: 066017003  
 Project: Ritchey 26

S3@1'

9/11/2017 12:10:00PM

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

**Origins Laboratory, Inc.**  
 Y709138-03 (Soil)

**DRO/RRO by EPA8015C**

|                                   |      |      |       |   |         |            |            |   |
|-----------------------------------|------|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | 81.7 | 50.0 | mg/kg | 1 | B711306 | 09/13/2017 | 09/14/2017 |   |
| Residual Range Organics (C28-C40) | ND   | 200  | "     | " | "       | "          | "          | U |

Surrogate: o-Terphenyl 82.2 % 59-131 " " "

**GBTEX by EPA 8260C**

|                             |       |       |       |   |         |            |            |   |
|-----------------------------|-------|-------|-------|---|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | 5.11  | 0.200 | mg/kg | 1 | B711302 | 09/13/2017 | 09/14/2017 |   |
| Benzene                     | ND    | 0.002 | "     | " | "       | "          | "          | U |
| Toluene                     | 0.015 | 0.002 | "     | " | "       | "          | "          |   |
| Ethylbenzene                | 0.022 | 0.002 | "     | " | "       | "          | "          |   |
| Xylenes, total              | 0.168 | 0.002 | "     | " | "       | "          | "          |   |

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "

Surrogate: Toluene-d8 88.1 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 109 % 70-130 " " "

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 7.88 |  | pH Units | 1 | B711307 | 09/13/2017 | 09/14/2017 |  |
|----|------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |        |  |          |   |         |   |   |  |
|---------------------------|--------|--|----------|---|---------|---|---|--|
| Specific Conductance (EC) | 0.0334 |  | mmhos/cm | " | B711308 | " | " |  |
|---------------------------|--------|--|----------|---|---------|---|---|--|

Origins Laboratory, Inc.



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

Chris Purcell  
 Project Number: 066017003  
 Project: Ritchey 26

**S4@1'**  
**9/11/2017 12:15:00PM**

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

**Origins Laboratory, Inc.**  
**Y709138-04 (Soil)**

**DRO/RRO by EPA8015C**

|                                   |      |      |       |   |         |            |            |   |
|-----------------------------------|------|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | 75.8 | 50.0 | mg/kg | 1 | B711306 | 09/13/2017 | 09/14/2017 |   |
| Residual Range Organics (C28-C40) | ND   | 200  | "     | " | "       | "          | "          | U |

Surrogate: *o*-Terphenyl 82.2 % 59-131 " " "

**GBTEX by EPA 8260C**

|                             |       |       |       |   |         |            |            |  |
|-----------------------------|-------|-------|-------|---|---------|------------|------------|--|
| Gasoline Range Hydrocarbons | 3.25  | 0.200 | mg/kg | 1 | B711302 | 09/13/2017 | 09/14/2017 |  |
| Benzene                     | 0.002 | 0.002 | "     | " | "       | "          | "          |  |
| Toluene                     | 0.016 | 0.002 | "     | " | "       | "          | "          |  |
| Ethylbenzene                | 0.013 | 0.002 | "     | " | "       | "          | "          |  |
| Xylenes, total              | 0.103 | 0.002 | "     | " | "       | "          | "          |  |

Surrogate: 1,2-Dichloroethane-d4 99.5 % 70-130 " " "  
 Surrogate: Toluene-d8 91.9 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.00 |  | pH Units | 1 | B711307 | 09/13/2017 | 09/14/2017 |  |
|----|------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |        |  |          |   |         |   |   |  |
|---------------------------|--------|--|----------|---|---------|---|---|--|
| Specific Conductance (EC) | 0.0325 |  | mmhos/cm | " | B711308 | " | " |  |
|---------------------------|--------|--|----------|---|---------|---|---|--|

Origins Laboratory, Inc.



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

Chris Purcell  
 Project Number: 066017003  
 Project: Ritchey 26

**S5@1'**  
**9/11/2017 1:00:00PM**

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

**Origins Laboratory, Inc.**  
**Y709138-05 (Soil)**

**DRO/RRO by EPA8015C**

|                                   |             |      |       |   |         |            |            |   |
|-----------------------------------|-------------|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | <b>84.3</b> | 50.0 | mg/kg | 1 | B711306 | 09/13/2017 | 09/14/2017 |   |
| Residual Range Organics (C28-C40) | ND          | 200  | "     | " | "       | "          | "          | U |

Surrogate: *o*-Terphenyl 94.2 % 59-131 " " "

**GBTEX by EPA 8260C**

|                             |              |       |       |   |         |            |            |   |
|-----------------------------|--------------|-------|-------|---|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | <b>0.599</b> | 0.200 | mg/kg | 1 | B711302 | 09/13/2017 | 09/14/2017 |   |
| Benzene                     | ND           | 0.002 | "     | " | "       | "          | "          | U |
| Toluene                     | <b>0.003</b> | 0.002 | "     | " | "       | "          | "          |   |
| Ethylbenzene                | <b>0.008</b> | 0.002 | "     | " | "       | "          | "          |   |
| Xylenes, total              | <b>0.021</b> | 0.002 | "     | " | "       | "          | "          |   |

Surrogate: 1,2-Dichloroethane-d4 98.0 % 70-130 " " "  
 Surrogate: Toluene-d8 98.8 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

**pH in Soil by EPA 9045D**

|    |             |  |          |   |         |            |            |  |
|----|-------------|--|----------|---|---------|------------|------------|--|
| pH | <b>8.12</b> |  | pH Units | 1 | B711307 | 09/13/2017 | 09/14/2017 |  |
|----|-------------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |               |  |          |   |         |   |   |  |
|---------------------------|---------------|--|----------|---|---------|---|---|--|
| Specific Conductance (EC) | <b>0.0281</b> |  | mmhos/cm | " | B711308 | " | " |  |
|---------------------------|---------------|--|----------|---|---------|---|---|--|

Origins Laboratory, Inc.



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

Chris Purcell  
 Project Number: 066017003  
 Project: Ritchey 26

S6@1'  
 9/11/2017 1:30:00PM

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

**Origins Laboratory, Inc.**  
 Y709138-06 (Soil)

**DRO/RRO by EPA8015C**

|                                   |    |      |       |   |         |            |            |   |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | ND | 50.0 | mg/kg | 1 | B711306 | 09/13/2017 | 09/14/2017 | U |
| Residual Range Organics (C28-C40) | ND | 200  | "     | " | "       | "          | "          | U |

Surrogate: *o*-Terphenyl 75.2 % 59-131 " " "

**GBTEX by EPA 8260C**

|                             |    |       |       |   |         |            |            |   |
|-----------------------------|----|-------|-------|---|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 0.200 | mg/kg | 1 | B711302 | 09/13/2017 | 09/14/2017 | 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 100 % 70-130 " " "  
 Surrogate: Toluene-d8 100 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 99.8 % 70-130 " " "

**pH in Soil by EPA 9045D**

|    |      |  |          |   |         |            |            |  |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 7.96 |  | pH Units | 1 | B711307 | 09/13/2017 | 09/14/2017 |  |
|----|------|--|----------|---|---------|------------|------------|--|

**Specific Conductance by Modified 9050A**

|                           |        |  |          |   |         |   |   |  |
|---------------------------|--------|--|----------|---|---------|---|---|--|
| Specific Conductance (EC) | 0.0181 |  | mmhos/cm | " | B711308 | " | " |  |
|---------------------------|--------|--|----------|---|---------|---|---|--|

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

Chris Purcell  
 Project Number: 066017003  
 Project: Ritchey 26

**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 B711302 - EPA 5030 (soil)</b> |        |                 |       |             |                                           |      |             |     |           |       |
| <b>Blank (B711302-BLK1)</b>            |        |                 |       |             |                                           |      |             |     |           |       |
|                                        |        |                 |       |             | Prepared: 09/13/2017 Analyzed: 09/13/2017 |      |             |     |           |       |
| 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       | 58     |                 | ug/kg | 62.5        |                                           | 92.8 | 70-130      |     |           |       |
| Surrogate: Toluene-d8                  | 64     |                 | "     | 62.5        |                                           | 103  | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene        | 62     |                 | "     | 62.5        |                                           | 99.5 | 70-130      |     |           |       |

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 Project: Ritchey 26

**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 B711302 - EPA 5030 (soil)**

**LCS (B711302-BS1)**

Prepared: 09/13/2017 Analyzed: 09/13/2017

|                                  |       |       |       |       |  |      |          |  |  |  |
|----------------------------------|-------|-------|-------|-------|--|------|----------|--|--|--|
| Benzene                          | 0.092 | 0.002 | mg/kg | 0.100 |  | 92.0 | 77.1-124 |  |  |  |
| Toluene                          | 0.094 | 0.002 | "     | 0.100 |  | 94.2 | 74.5-128 |  |  |  |
| Ethylbenzene                     | 0.088 | 0.002 | "     | 0.100 |  | 87.6 | 66.4-127 |  |  |  |
| m,p-Xylene                       | 0.170 | 0.004 | "     | 0.200 |  | 84.9 | 76.6-124 |  |  |  |
| o-Xylene                         | 0.087 | 0.002 | "     | 0.100 |  | 86.9 | 76.6-124 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 56    |       | ug/kg | 62.5  |  | 89.1 | 70-130   |  |  |  |
| Surrogate: Toluene-d8            | 64    |       | "     | 62.5  |  | 103  | 70-130   |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 60    |       | "     | 62.5  |  | 95.8 | 70-130   |  |  |  |

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 Project: Ritchey 26

**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 B711302 - EPA 5030 (soil)

| Matrix Spike (B711302-MS1)       | Source: Y709138-01 |       |       | Prepared: 09/13/2017 Analyzed: 09/13/2017 |       |      |          |  |  |       |
|----------------------------------|--------------------|-------|-------|-------------------------------------------|-------|------|----------|--|--|-------|
| Benzene                          | 0.102              | 0.002 | mg/kg | 0.100                                     | 0.009 | 93.4 | 71.8-126 |  |  |       |
| Toluene                          | 0.114              | 0.002 | "     | 0.100                                     | 0.055 | 59.0 | 65.1-130 |  |  | QM-07 |
| Ethylbenzene                     | 0.114              | 0.002 | "     | 0.100                                     | 0.038 | 76.2 | 62.2-130 |  |  |       |
| m,p-Xylene                       | 0.260              | 0.004 | "     | 0.200                                     | 0.165 | 47.6 | 46.5-137 |  |  |       |
| o-Xylene                         | 0.136              | 0.002 | "     | 0.100                                     | 0.081 | 55.3 | 54.2-134 |  |  |       |
| Surrogate: 1,2-Dichloroethane-d4 | 57                 |       | ug/kg | 62.5                                      |       | 91.9 | 70-130   |  |  |       |
| Surrogate: Toluene-d8            | 56                 |       | "     | 62.5                                      |       | 90.0 | 70-130   |  |  |       |
| Surrogate: 4-Bromofluorobenzene  | 67                 |       | "     | 62.5                                      |       | 107  | 70-130   |  |  |       |

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 Project: Ritchey 26

**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 B711302 - EPA 5030 (soil)

| Matrix Spike Dup (B711302-MSD1)  | Source: Y709138-01 |       |       | Prepared: 09/13/2017 Analyzed: 09/13/2017 |       |      |          |      |      |  |
|----------------------------------|--------------------|-------|-------|-------------------------------------------|-------|------|----------|------|------|--|
| Benzene                          | 0.103              | 0.002 | mg/kg | 0.100                                     | 0.009 | 94.6 | 71.8-126 | 1.15 | 11.3 |  |
| Toluene                          | 0.127              | 0.002 | "     | 0.100                                     | 0.055 | 71.5 | 65.1-130 | 10.4 | 15.4 |  |
| Ethylbenzene                     | 0.128              | 0.002 | "     | 0.100                                     | 0.038 | 89.7 | 62.2-130 | 11.1 | 19.6 |  |
| m,p-Xylene                       | 0.308              | 0.004 | "     | 0.200                                     | 0.165 | 71.4 | 46.5-137 | 16.8 | 19.2 |  |
| o-Xylene                         | 0.161              | 0.002 | "     | 0.100                                     | 0.081 | 80.1 | 54.2-134 | 16.6 | 17.9 |  |
| Surrogate: 1,2-Dichloroethane-d4 | 60                 |       | ug/kg | 62.5                                      |       | 95.3 | 70-130   |      |      |  |
| Surrogate: Toluene-d8            | 55                 |       | "     | 62.5                                      |       | 87.7 | 70-130   |      |      |  |
| Surrogate: 4-Bromofluorobenzene  | 69                 |       | "     | 62.5                                      |       | 111  | 70-130   |      |      |  |

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 Project: Ritchey 26

**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 B711306 - EPA 3580**

**Blank (B711306-BLK1)**

Prepared: 09/13/2017 Analyzed: 09/13/2017

|                                   |    |      |       |      |  |      |        |  |  |   |
|-----------------------------------|----|------|-------|------|--|------|--------|--|--|---|
| Diesel (C10-C28)                  | ND | 50.0 | mg/kg |      |  |      |        |  |  | U |
| Residual Range Organics (C28-C40) | ND | 200  | "     |      |  |      |        |  |  | U |
| Surrogate: o-Terphenyl            | 44 |      | "     | 50.0 |  | 88.7 | 59-131 |  |  |   |

**Blank (B711306-BLK2)**

Prepared: 09/13/2017 Analyzed: 09/14/2017

|                                   |    |      |       |      |  |      |        |  |  |   |
|-----------------------------------|----|------|-------|------|--|------|--------|--|--|---|
| Diesel (C10-C28)                  | ND | 50.0 | mg/kg |      |  |      |        |  |  | U |
| Residual Range Organics (C28-C40) | ND | 200  | "     |      |  |      |        |  |  | U |
| Surrogate: o-Terphenyl            | 45 |      | "     | 50.0 |  | 89.2 | 59-131 |  |  |   |

**LCS (B711306-BS1)**

Prepared: 09/13/2017 Analyzed: 09/13/2017

|                                   |      |      |       |      |  |      |        |  |  |  |
|-----------------------------------|------|------|-------|------|--|------|--------|--|--|--|
| Diesel (C10-C28)                  | 875  | 50.0 | mg/kg | 1000 |  | 87.5 | 64-121 |  |  |  |
| Residual Range Organics (C28-C40) | 1010 | 200  | "     | 1000 |  | 101  | 58-124 |  |  |  |
| Surrogate: o-Terphenyl            | 45   |      | "     | 50.0 |  | 90.6 | 59-131 |  |  |  |

**LCS (B711306-BS2)**

Prepared: 09/13/2017 Analyzed: 09/14/2017

|                                   |      |      |       |      |  |      |        |  |  |  |
|-----------------------------------|------|------|-------|------|--|------|--------|--|--|--|
| Diesel (C10-C28)                  | 887  | 50.0 | mg/kg | 1000 |  | 88.7 | 64-121 |  |  |  |
| Residual Range Organics (C28-C40) | 1060 | 200  | "     | 1000 |  | 106  | 58-124 |  |  |  |
| Surrogate: o-Terphenyl            | 46   |      | "     | 50.0 |  | 91.1 | 59-131 |  |  |  |

**Matrix Spike (B711306-MS1)**

Source: Y709138-01

Prepared: 09/13/2017 Analyzed: 09/13/2017

|                                   |      |      |       |      |      |      |        |  |  |  |
|-----------------------------------|------|------|-------|------|------|------|--------|--|--|--|
| Diesel (C10-C28)                  | 1000 | 50.0 | mg/kg | 1000 | 198  | 80.7 | 53-125 |  |  |  |
| Residual Range Organics (C28-C40) | 1080 | 200  | "     | 1000 | 91.8 | 98.4 | 47-133 |  |  |  |

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 Project: Ritchey 26

**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 |
|----------------------------------------|--------|---------------------------|-------|-------------|-------------------------------------------|------|-------------|------|-----------|-------|
| <b>Batch B711306 - EPA 3580</b>        |        |                           |       |             |                                           |      |             |      |           |       |
| <b>Matrix Spike (B711306-MS1)</b>      |        | <b>Source: Y709138-01</b> |       |             | Prepared: 09/13/2017 Analyzed: 09/13/2017 |      |             |      |           |       |
| Surrogate: o-Terphenyl                 | 47     |                           | mg/kg | 50.0        |                                           | 94.3 | 59-131      |      |           |       |
| <b>Matrix Spike (B711306-MS2)</b>      |        | <b>Source: Y709159-01</b> |       |             | Prepared: 09/13/2017 Analyzed: 09/14/2017 |      |             |      |           |       |
| Diesel (C10-C28)                       | 1180   | 50.0                      | mg/kg | 1000        | 22.6                                      | 115  | 53-125      |      |           |       |
| Residual Range Organics (C28-C40)      | 1400   | 200                       | "     | 1000        | 26.0                                      | 137  | 47-133      |      |           | QM-07 |
| Surrogate: o-Terphenyl                 | 63     |                           | "     | 50.0        |                                           | 126  | 59-131      |      |           |       |
| <b>Matrix Spike Dup (B711306-MSD1)</b> |        | <b>Source: Y709138-01</b> |       |             | Prepared: 09/13/2017 Analyzed: 09/13/2017 |      |             |      |           |       |
| Diesel (C10-C28)                       | 1130   | 50.0                      | mg/kg | 1000        | 198                                       | 93.0 | 53-125      | 14.2 | 20        |       |
| Residual Range Organics (C28-C40)      | 1110   | 200                       | "     | 1000        | 91.8                                      | 102  | 47-133      | 3.47 | 20        |       |
| Surrogate: o-Terphenyl                 | 51     |                           | "     | 50.0        |                                           | 102  | 59-131      |      |           |       |
| <b>Matrix Spike Dup (B711306-MSD2)</b> |        | <b>Source: Y709159-01</b> |       |             | Prepared: 09/13/2017 Analyzed: 09/14/2017 |      |             |      |           |       |
| Diesel (C10-C28)                       | 1050   | 50.0                      | mg/kg | 1000        | 22.6                                      | 103  | 53-125      | 11.5 | 20        |       |
| Residual Range Organics (C28-C40)      | 1270   | 200                       | "     | 1000        | 26.0                                      | 124  | 47-133      | 9.98 | 20        |       |
| Surrogate: o-Terphenyl                 | 57     |                           | "     | 50.0        |                                           | 114  | 59-131      |      |           |       |

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 Project: Ritchey 26

**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 B711307 - NO PREP</b>  |         |                           |          |             |                                           |      |             |       |           |       |
| <b>Duplicate (B711307-DUP1)</b> |         | <b>Source: Y709138-01</b> |          |             | Prepared: 09/13/2017 Analyzed: 09/14/2017 |      |             |       |           |       |
| pH                              | 8.02    |                           | pH Units |             | 8.06                                      |      |             | 0.498 | 25        |       |
| <b>Batch B711308 - NO PREP</b>  |         |                           |          |             |                                           |      |             |       |           |       |
| <b>Blank (B711308-BLK1)</b>     |         |                           |          |             | Prepared: 09/14/2017 Analyzed: 09/14/2017 |      |             |       |           |       |
| Specific Conductance (EC)       | 0.00390 |                           | mmhos/cm |             |                                           |      |             |       |           |       |
| <b>Duplicate (B711308-DUP1)</b> |         | <b>Source: Y709138-01</b> |          |             | Prepared: 09/13/2017 Analyzed: 09/14/2017 |      |             |       |           |       |
| Specific Conductance (EC)       | 0.0544  |                           | mmhos/cm |             | 0.0537                                    |      |             | 1.30  | 25        |       |

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Project: Ritchey 26

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### Notes and Definitions

U Sample is Non-Detect.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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Jen Pellegrini For Noelle Doyle Mathis, President