



1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax 894-2109

FOR OGCC USE ONLY

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

OGCC Employee: _____

Spill Complaint

Inspection NOAV

Tracking No: _____

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

Spill or Release Plug & Abandon Central Facility Closure Site/Facility Closure Other (describe): _____

GENERAL INFORMATION

| | |
|--|---|
| OGCC Operator Number: 47120 Name of Operator: Kerr-McGee Oil & Gas Onshore LLC Address: P.O. Box 173779 City: Denver State: CO Zip: 80217-3779 | Contact Name and Telephone Name: Phillip Hamlin No: (970) 336-3500 Fax: (970) 336-3656 |
| API/Facility No: 445591 Facility Name: Four Way-62N65W/16SEW Well Name: _____ Location (Qtr, Sec, Twp, Rng, Meridian): SENW Sec 16-T2N-R65W | County: Weld Facility Number: _____ Well Number: 1 Latitude: 40.141908 Longitude: -104.672677 |

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc.): Oil and Condensate

Site Conditions: Is location within a sensitive area (according to Rule 901e)? Y N If yes, attach evaluation. Groundwater < 20 ft.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Rangeland

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Sandy clay (CL) and medium to fine-grained sand (SM)

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Water well approximately 1,050' northwest, livestock approximately 4,000' southeast, and an occupied building approximately 1,350' west.

Description of Impact (if previously provided, refer to that form or document):

| | | |
|---|-------------------|---------------------------------|
| Impacted Media (check): | Extent of Impact: | How Determined: |
| <input checked="" type="checkbox"/> Soils | <u>Unknown</u> | <u>Investigation is ongoing</u> |
| <input type="checkbox"/> Vegetation | _____ | _____ |
| <input type="checkbox"/> Groundwater | _____ | _____ |
| <input type="checkbox"/> Surface water | _____ | _____ |

REMEDIATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):

During deconstruction activities at the Four Way-62N65W/16SEW tank battery, soil with historical petroleum hydrocarbon impacts was encountered beneath the southern produced water sump. There were no indications that the dumlines or produced water sump were leaking. The source and volume of the release are unknown and investigation activities are ongoing. A topographic Site Location Map showing the geographic setting of the release is attached as Figure 1.

Describe how source is to be removed:

On April 14, 2016, following removal of the northern produced water sump, one soil sample (N-B01@5') was collected from beneath the sump. The soil sample was submitted for laboratory analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) and total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) by United States Environmental Protection Agency (USEPA) Method 8260C, TPH-diesel range organics and oil range organics (DRO and ORO) by USEPA Method 8015C, pH by USEPA Method 9045D, and specific conductance (EC) by USEPA Method 9050A. Laboratory analytical results indicated that the pH level in base soil sample N-B01@5', which was collected below the root zone, exceeded the COGCC Table 910-1 allowable level for pH at 9.05. BTEX, TPH, and EC levels in base soil sample N-B01@5' were less than COGCC allowable levels.

On April 19, 2016, following excavation of impacted soil discovered beneath the southern produced water sump, four representative sidewall soil samples (N01@7', E01@7', S01@7', W01@7') and one base soil sample (S-B01@14') were collected from the excavation and submitted for laboratory analysis of BTEX, TPH, pH, and EC. Laboratory analytical results indicated that the benzene concentration in soil sample S-B01@14' exceeded the COGCC Table 910-1 allowable level at 0.24 milligrams per kilogram (mg/kg).

On April 20, 2016, following removal of additional impacted soil from the southern produced water sump excavation, four sidewall soil samples (N02@16', E02@16', S02@16', and W02@16') and one base soil sample (B02@20') were collected from the excavation. Laboratory analytical results indicated that the TPH concentration in sidewall soil sample S02@16' and the benzene, total xylenes, TPH, and pH levels in base soil sample B02@20' exceeded COGCC Table 910-1 allowable levels. On April 21, 2016, following removal of additional impacted soil from the southern sidewall, one sidewall soil sample (S03@16') was collected from the excavation. Laboratory analytical results from S03@16' indicated that BTEX, TPH, pH, and EC levels were compliant with COGCC Table 910-1 allowable levels.

On May 5, 2016, a subsurface assessment was conducted to delineate the lateral and vertical extents of the remaining soil impacts. Using a direct-push drill rig, four soil borings (SB01 through SB04) were advanced around the perimeter of the excavation. One step-out soil boring (SB05) was completed to the north of SB02. The soil borings were advanced to refusal, which occurred at an approximate depth of 28 feet below ground surface (bgs). Two soil samples were collected from each soil boring. One sample was collected at total depth (28' bgs) and one at the depth of the highest photoionization detector (PID) headspace reading. The soil samples were submitted for laboratory analysis of BTEX, TPH, pH, and EC. The TPH concentration in soil sample SB02@20' exceeded the COGCC Table 910-1 allowable level. Concentrations/levels in all the remaining soil samples were compliant with COGCC allowable levels. Soil borings SB01 through SB05 were completed as temporary monitoring wells TMW01 through TMW05 to assess for the presence of groundwater. Groundwater was not encountered in any of the temporary monitoring wells within five days of completion. The temporary monitoring wells were abandoned on May 10, 2016. Soil boring logs with PID headspace readings and temporary monitoring well completion logs are included as an attachment.

(Continued on Page 2)

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado
(303) 894-2100 Fax 894-2109



Tracking Number: _____
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: _____
Facility Name & No.: _____

REMEDIATION WORKPLAN (CONT.)

OGCC Employee: _____

Describe how source is to be removed (Continued):
In order to remove additional impacted soil from the excavation base, the excavation sidewalls were sloped (2:1 ratio) for stability in accordance with Occupational Safety and Health Administration Excavation Standard 29 Code of Federal Regulations (CFR) Part 1926 Sub-part P Section 1926.652(c)(4). Between June 7 and 9, 2016, following the removal of additional impacted soil, two sidewall soil samples (N03@22' and S04@22'), one base soil sample (B03@25'), and seven test pit soil samples (TP04@28', TP05@30', TP06@35', TP07@30', TP08@35', TP09@30', and TP10@35') were collected from the sloped excavation. Laboratory analytical results indicated that TPH, BTEX, pH, and EC levels were in compliance with COGCC Table 910-1 allowable levels at the lateral extent of the excavation. TPH, benzene, toluene, and/or pH levels continued to exceed COGCC allowable levels in soil sample B03@25' and the test pit soil samples collected from the base of the excavation. Approximately 780 cubic yards of impacted soil were removed from the excavation and transported to the Buffalo Ridge Landfill in Keenesburg, Colorado, for disposal. The general site layout, release location, excavation extent, sloped excavation access, soil sample locations, and soil boring locations are depicted on the Excavation Site Map provided as Figure 2. The soil sample analytical results are summarized in Table 1 and the laboratory analytical reports are attached.

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:
The impacted soil was transported to the Buffalo Ridge Landfill in Keenesburg, Colorado, for disposal.

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):
Following site reclamation, further subsurface assessment will be conducted using a hollow stem auger rig to determine the vertical extent of impacted soil left in-place, and to determine if shallow groundwater has been impacted. If groundwater is encountered, groundwater monitoring wells will be installed to facilitate the groundwater assessment. The monitoring wells will be surveyed so that an accurate groundwater (if present) flow direction can be determined. If groundwater is present, monitoring activities will be conducted on a quarterly basis and all groundwater samples will be submitted for laboratory analysis of BTEX.

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.
The site will be decommissioned and restored to pre-release grade.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.
Is further site investigation required? Y N If yes, describe:
Further subsurface assessment activities will be conducted at the site to define the extent of the residual petroleum hydrocarbon soil impacts. If groundwater is encountered while conducting the site assessment, groundwater monitoring wells will be installed and point of compliance will be established. If groundwater is present, monitoring will continue on a quarterly basis. Upon completion of the subsurface assessment activities, a Form 27 Update Report will be provided.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):
The impacted soil was transported to the Buffalo Ridge Landfill in Keenesburg, Colorado, for disposal.

IMPLEMENTATION SCHEDULE

| | | | | | |
|--------------------------------|-----------|------------------------------------|--------|-----------------------------|--|
| Date Site Investigation Began: | 4/20/2016 | Date Site Investigation Completed: | Active | Remediation Plan Submitted: | |
| Remediation Start Date: | 4/20/2016 | Anticipated Completion Date: | TBD | Actual Completion Date: | |

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.
Print Name: Phillip Hamlin
Signed: *Phillip Hamlin for* Title: Senior HSE Representative Date: 8-9-16

OGCC Approved: _____ Title: _____ Date: _____

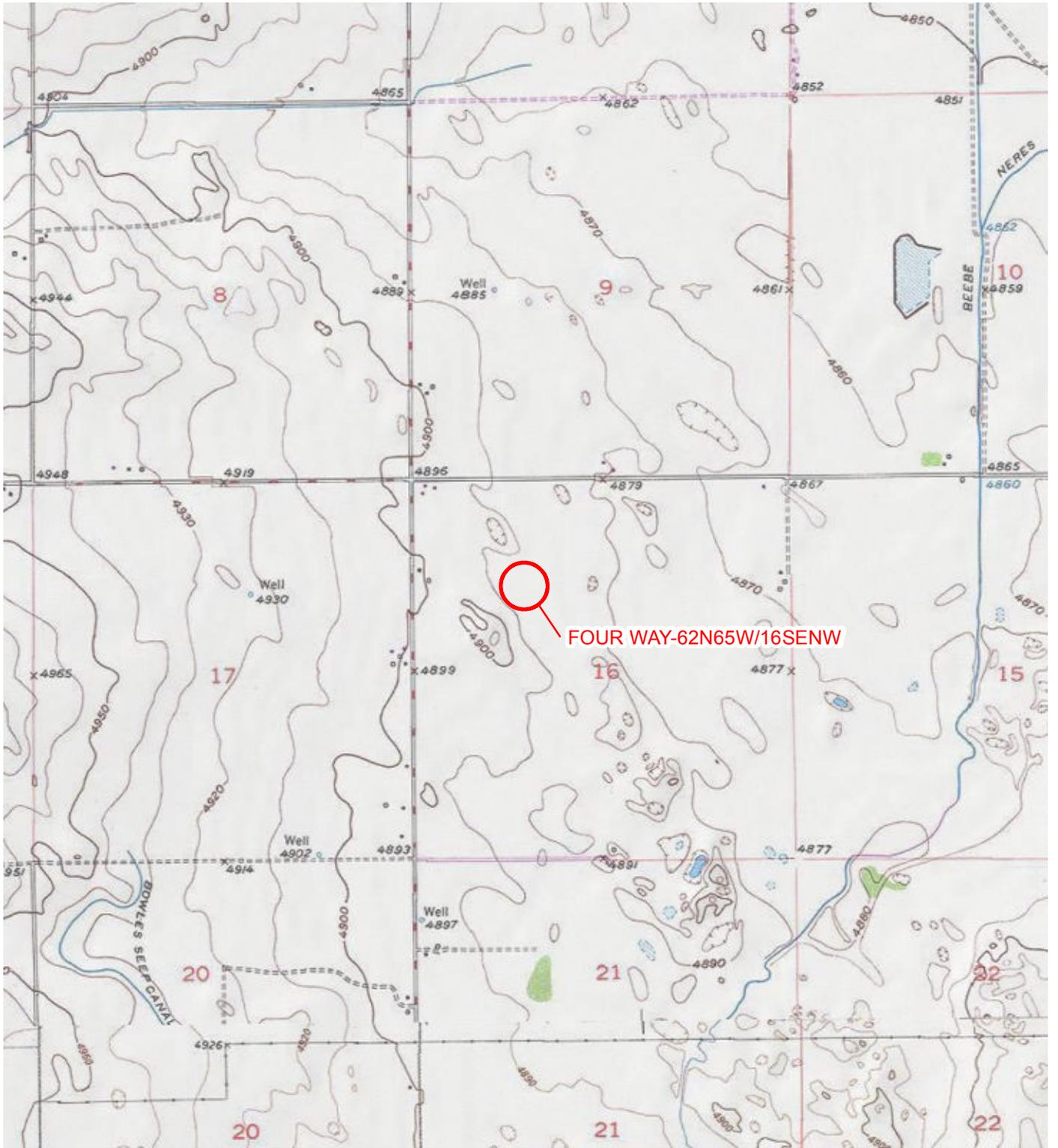


IMAGE COURTESY OF ESRI/USGS

LEGEND

 SITE LOCATION

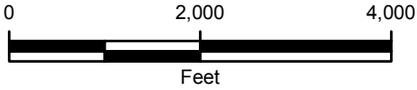


FIGURE 1
SITE LOCATION MAP
FOUR WAY-62N65W/16SENW
SENW SEC 16-T2N-R65W
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP



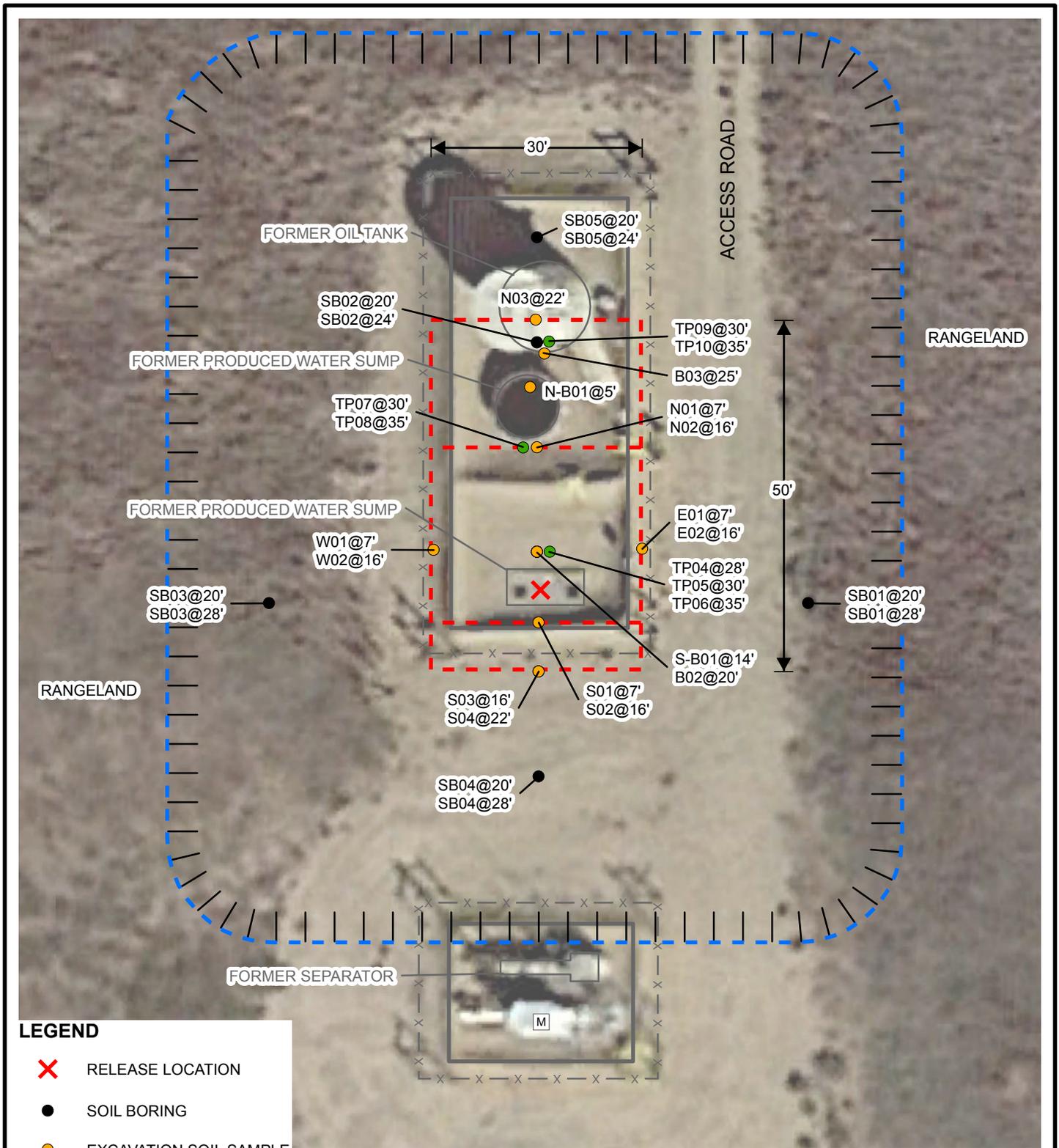


IMAGE COURTESY OF GOOGLE EARTH 2015

LEGEND

- X RELEASE LOCATION
- SOIL BORING
- EXCAVATION SOIL SAMPLE
- TEST PIT SOIL SAMPLE
- [M] METER HOUSE
- x — x FORMER FENCE
- [||||] SLOPED EXCAVATION ACCESS
- [---] EXCAVATION EXTENT
- [] FORMER BERM

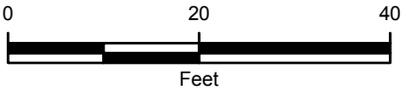


FIGURE 2
EXCAVATION SITE MAP
 FOUR WAY-62N65W/16SEW
 SENW SEC 16-T2N-R65W
 WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
FOUR WAY-62N65W/16SENW
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) |
|----------------|-------------|------------|-----------------|-----------------|----------------------|-----------------------|-------------|-------------|----------------|---------------|---------------------------------|
| N-B01 @ 5' | 5' | 04/14/2016 | <0.002 | <0.002 | <0.002 | <0.002 | <50 | <0.20 | <200 | 9.05 † | 0.0220 |
| E01 @ 7' | 7' | 04/19/2016 | <0.05 | <0.05 | <0.05 | <0.05 | <25 | <5.0 | <100 | 8.14 | 0.140 |
| N01 @ 7' | 7' | 04/19/2016 | <0.05 | <0.05 | <0.05 | <0.05 | <25 | <5.0 | <100 | 8.35 | 0.120 |
| S01 @ 7' | 7' | 04/19/2016 | <0.002 | <0.002 | <0.002 | <0.002 | <25 | <0.20 | <100 | 8.21 | 0.120 |
| S-B01 @ 14' | 14' | 04/19/2016 | 0.24 | <0.05 | 1.7 | 26 | 67 | 150 | <100 | 8.59 | 0.278 |
| W01 @ 7' | 7' | 04/19/2016 | <0.002 | <0.002 | <0.002 | <0.002 | <25 | <0.20 | <100 | 8.00 | 0.0830 |
| B02 @ 20' | 20' | 04/20/2016 | 1.8 | <0.05 | 14 | 210 | 940 | 1500 | <100 | 9.92 † | 0.116 |
| E02 @ 16' | 16' | 04/20/2016 | <0.05 | <0.05 | <0.05 | <0.05 | <25 | <5.0 | <100 | 8.47 | 0.161 |
| N02 @ 16' | 16' | 04/20/2016 | <0.05 | <0.05 | <0.05 | <0.05 | <25 | <5.0 | <100 | 8.71 | 0.191 |
| S02 @ 16' | 16' | 04/20/2016 | 0.06 | <0.05 | 3.4 | 70 | 470 | 350 | <100 | 8.62 | 0.150 |
| W02 @ 16' | 16' | 04/20/2016 | <0.002 | <0.002 | <0.002 | <0.002 | <25 | <0.20 | <100 | 8.30 | 0.122 |
| S03 @ 16' | 16' | 04/21/2016 | <0.002 | <0.002 | <0.002 | <0.002 | <25 | <0.20 | <100 | 7.68 | 0.102 |
| SB01 @ 20' | 20' | 05/05/2016 | <0.002 | <0.002 | <0.002 | <0.002 | <25 | <0.20 | <100 | 7.50 | 0.0596 |
| SB01 @ 28' | 28' | 05/05/2016 | <0.002 | <0.002 | <0.002 | <0.002 | <25 | <0.20 | <100 | 7.46 | 0.0661 |
| SB02 @ 20' | 20' | 05/05/2016 | <0.05 | <0.05 | 1.0 | 10 | 540 | 160 | <100 | 7.31 | 0.0545 |
| SB02 @ 24' | 24' | 05/05/2016 | <0.05 | 1.6 | 1.8 | 22 | 170 | 160 | <100 | 7.06 | 0.109 |
| SB03 @ 20' | 20' | 05/05/2016 | <0.05 | <0.05 | <0.05 | <0.05 | <25 | <5.0 | <100 | 7.42 | 0.0641 |
| SB03 @ 28' | 28' | 05/05/2016 | <0.002 | <0.002 | <0.002 | <0.002 | <25 | <0.20 | <100 | 7.33 | 0.0630 |
| SB04 @ 20' | 20' | 05/05/2016 | <0.002 | <0.002 | <0.002 | <0.002 | <25 | <0.20 | <100 | 7.43 | 0.0410 |
| SB04 @ 28' | 28' | 05/05/2016 | <0.002 | <0.002 | <0.002 | <0.002 | <25 | <0.20 | <100 | 7.53 | 0.0729 |
| SB05 @ 20' | 20' | 05/05/2016 | <0.002 | <0.002 | <0.002 | <0.002 | <25 | <0.20 | <100 | 8.17 | 0.0697 |
| SB05 @ 24' | 24' | 05/05/2016 | <0.002 | <0.002 | <0.002 | <0.002 | <25 | <0.20 | <100 | 7.75 | 0.102 |



TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL RESULTS
FOUR WAY-62N65W/16SENW
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) |
|-------------------------------|-------------|------------|-----------------|-----------------|----------------------|-----------------------|-------------|-------------|----------------|---------------|---------------------------------|
| B03 @ 25' | 25' | 06/07/2016 | <0.002 | <0.002 | 0.004 | 0.005 | <25.0 | <0.200 | <100 | 8.26 | 0.0528 |
| N03 @ 22' | 22' | 06/08/2016 | <0.050 | <0.050 | <0.050 | <0.050 | <25.0 | <5.00 | <100 | 7.50 | 0.110 |
| S04 @ 22' | 22' | 06/08/2016 | <0.050 | <0.050 | <0.050 | <0.050 | <25.0 | <5.00 | <100 | 7.80 | 0.103 |
| TP04 @ 28' | 28' | 06/08/2016 | 0.796 | <0.050 | 7.52 | 142 | 844 | 819 | <100 | 7.94 | 0.188 |
| TP05 @ 30' | 30' | 06/08/2016 | 1.68 | 0.814 | 8.53 | 148 | 686 | 1040 | <100 | 7.90 | 0.151 |
| TP06 @ 35' | 35' | 06/09/2016 | 5.84 | 210 | 32.6 | 920 | 4810 | 3500 | <100 | 9.10 † | 0.221 |
| TP07 @ 30' | 30' | 06/09/2016 | 12.5 | 272 | 70.9 | 2250 | 7220 | 9340 | <100 | 8.67 | 0.609 |
| TP08 @ 35' | 35' | 06/09/2016 | 2.14 | 75.9 | 18.7 | 271 | 3440 | 2240 | <100 | 8.54 | 0.552 |
| TP09 @ 30' | 30' | 06/09/2016 | <0.050 | <0.050 | 0.072 | 0.117 | <25.0 | 5.23 | <100 | 8.28 | 0.195 |
| TP10 @ 35' | 35' | 06/09/2016 | 0.050 | 0.470 | 1.56 | 38.9 | 353 | 239 | <100 | 7.95 | 0.426 |
| COGCC Allowable Levels | | | 0.17 | 85 | 100 | 175 | 500* | 500* | 500* | 6-9 | 4 |

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

† - Sample was collected at a depth greater than 3 feet bgs

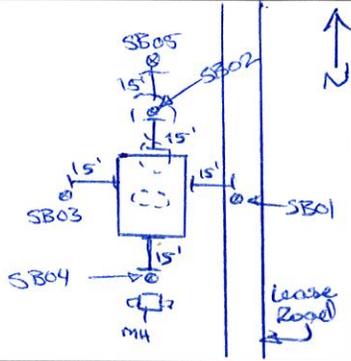
* - Standard applies to combined DRO-GRO-ORO

< - less than laboratory reporting limit

Bold indicates result exceeds allowable level



Well Location Sketch:



Compliance • Engineering • Remediation
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, Colorado 80003

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

| | |
|---------------------------------------|---------------------------------|
| Boring/Well Number: SB01/TM001 | Project: Four Way #1 |
| Date: 5/5/2016 | Project Number: 14216073 |
| Logged By: Kris Shepherd | Drilled By: Drill Pro |

| | | | |
|------------|----------------------|-------------------------------------|------------------------------------|
| Elevation: | Detector: PID | Drilling Method: Direct Push | Sampling Method: Continuous |
|------------|----------------------|-------------------------------------|------------------------------------|

| | | |
|---------------------------------|------------------------|-----------------|
| Gravel Pack: Silica Sand | Seal: Bentonite | Grout: - |
|---------------------------------|------------------------|-----------------|

| | | | | |
|-------------------------|---------------------|-------------------|--------------------------|---------------------------|
| Casing Type: PVC | Diameter: 1" | Length: 8' | Hole Diameter: 3" | Depth to Liquid: - |
|-------------------------|---------------------|-------------------|--------------------------|---------------------------|

| | | | | | |
|-------------------------|-------------------|---------------------|--------------------|-------------------------|--------------------------|
| Screen Type: PVC | Slot: 0.01 | Diameter: 1" | Length: 20' | Total Depth: 28' | Depth to Water: - |
|-------------------------|-------------------|---------------------|--------------------|-------------------------|--------------------------|

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Run | Recovery | Soil/Rock Type | Lithology/Remarks | Well Completion Diagram |
|------------------------|------------------|-------------|----------|--------------------|------------------|------------|----------|----------------|---|-------------------------|
| | | | | | 0 | | | | | |
| | | | | | 2 | | | | Hand Auger, Not Logged | |
| | | | | | 4 | | | | | |
| | | | | | 6 | | | | | |
| | moist | 0.0 | none | | 8 | 2' | 2' | | 6' → 18' Sandy clay, brown/tan, no odor, no stain, mod. cohesion, mod. plasticity, moist | |
| | | 0.0 | | | 10 | 4' | 4' | | → trace gravel 8' → 11' bgs | |
| | | 0.2 | | | 12 | | | CH | → trace coarse → v. coarse sand 14.5' → 18' | |
| | | 0.1 | | | 14 | 4' | 4' | | → 2" clayey coarse sand stringers 17.5' bgs, tan, no odor/stain, moist | |
| | | 0.1 | | | 16 | | | | 18' → 20' v. Sandy (coarse) clay, brown, no odor, no stain, low cohesion, low plasticity, moist | |
| | | 0.2 | | | 18 | 2' | 2' | | | |
| | | 0.1 | | | 20 | 2' | 2' | CL | 20' → 23.5' Sandy (mg → coarse) clay, brown, no stain, no odor, high cohesion, high plasticity, moist | |
| | | 0.2 | | SB01 @ 20' (0.155) | 22 | 2' | 2' | CH | 23.5' → 28' sandy (fg → mg) clay, brown/tan, no stain, no odor, mod. cohesion, mod. plasticity, moist | |
| | | 0.1 | | | 24 | 2' | 2' | | | |
| | | 0.2 | | | 26 | 2' | 2' | | | |
| | | 0.1 | | SB01 @ 28' (1.000) | 28 | 2' | 2' | CL | → Refusal @ 28' | |
| | | | | | 30 | | | | → Temp well, flush mount | |
| | | | | | 32 | | | | | |
| | | | | | 34 | | | | | |
| | | | | | 36 | | | | | |
| | | | | | 38 | | | | | |
| | | | | | 40 | | | | | |

NOTES:

Well Location Sketch:



Compliance · Engineering · Remediation
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, Colorado 80003

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

| | |
|--|---------------------------------|
| Boring/Well Number: <u>SBO2/TM1202</u> | Project: <u>Four Way #1</u> |
| Date: <u>5/5/2016</u> | Project Number: <u>14216073</u> |
| Logged By: <u>Kris Shepherd</u> | Drilled By: <u>Drill Pro</u> |

see SBD log

| | | | |
|------------|----------------------|-------------------------------------|------------------------------------|
| Elevation: | Detector: <u>PID</u> | Drilling Method: <u>Direct Push</u> | Sampling Method: <u>Continuous</u> |
|------------|----------------------|-------------------------------------|------------------------------------|

| | | |
|---------------------------------|------------------------|-----------------|
| Gravel Pack: <u>Silica Sand</u> | Seal: <u>Bentonite</u> | Grout: <u>-</u> |
|---------------------------------|------------------------|-----------------|

| | | | | |
|-------------------------|---------------------|-------------------|--------------------------|---------------------------|
| Casing Type: <u>PVC</u> | Diameter: <u>1"</u> | Length: <u>8'</u> | Hole Diameter: <u>3"</u> | Depth to Liquid: <u>-</u> |
|-------------------------|---------------------|-------------------|--------------------------|---------------------------|

| | | | | | |
|-------------------------|-------------------|---------------------|--------------------|--------------------------|--------------------------|
| Screen Type: <u>PVC</u> | Slot: <u>0.01</u> | Diameter: <u>1"</u> | Length: <u>20'</u> | Total Depth: <u>~28'</u> | Depth to Water: <u>-</u> |
|-------------------------|-------------------|---------------------|--------------------|--------------------------|--------------------------|

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Run | Recovery | Soil/Rock Type | Lithology/Remarks | Well Completion Diagram |
|------------------------|------------------|-------------|----------|-----------------|------------------|------------|----------|----------------|--|-------------------------|
| | | | | | 0 | | | | | |
| | | | | | 2 | | | | Hand Auger, Not Logged | |
| | | | | | 4 | | | | | |
| | | | | | 6 | | | | | |
| | moist | 0.9 | none | | 8 | 2' | 2' | | 6' → 13.5' Sandy clay, tan, no odor, no stain, mod. cohesion, high plasticity, moist | |
| | | 0.4 | | | 10 | 4' | 4' | CH | → trace v. coarse sand & gravel @ 9' | |
| | | 1.1 | | | 12 | | | | 13.5' → 20' gravelly, sandy (coarse) clay, brown/tan, no odor, no stain, low cohesion, low plasticity, moist | |
| | | 0.7 | | | 14 | 4' | 4' | | → gray stain + odor @ ~17.5' | |
| | | 0.5 | | | 16 | | | | → 2" mg → coarse sand stringer @ 19', gray stain, odor, moist | |
| | | 25.1 | stain | | 18 | 2' | 2' | CL | 20' → 24' clay, brown, no stain, odor, high cohesion, high plasticity, moist | |
| | | 104 | | SBO2 20' (1110) | 20 | 2' | 2' | | | |
| | | 59.3 | none | | 22 | 2' | 2' | CH | → trace gravel 23' → 24' | |
| | | 63.8 | | SBO2 24' (1115) | 24 | 2' | 2' | | 24' → 28' sandy clay (fg → coarse), brown, low cohesion, mod. plasticity, no odor, no stain, moist | |
| | | 2.1 | | | 26 | 2' | 2' | CL | → gray @ 25' | |
| | | 4.6 | | SBO2 28' (1120) | 28 | 2' | 2' | | → Refusal @ 28' | |
| | | | | | 30 | | | | → temp. well PVC Riser | |
| | | | | | 32 | | | | | |
| | | | | | 34 | | | | | |
| | | | | | 36 | | | | | |
| | | | | | 38 | | | | | |
| | | | | | 40 | | | | | |

Well Location Sketch:



Compliance · Engineering · Remediation
LT Environmental, Inc.
 4600 W. 60th Avenue
 Arvada, Colorado 80003

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: SBO3/TM003 Project: Four Way #1

Date: 5/5/2016 Project Number: 14216073

Logged By: Kris Shepherd Drilled By: Drill Pro

Elevation: _____ Detector: PID Drilling Method: Direct Push Sampling Method: Continuous

Gravel Pack: Silica Sand Seal: Bentonite Grout: -

Casing Type: PVC Diameter: 1" Length: 8' Hole Diameter: 3" Depth to Liquid: -

Screen Type: PVC Slot: 0.01 Diameter: 1" Length: 20' Total Depth: 28' Depth to Water: -

See SBO1 Log

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Run | Recovery | Soil/Rock Type | Lithology/Remarks | Well Completion Diagram |
|------------------------|------------------|-------------|----------|------------------------|------------------|------------|----------|----------------|---|-------------------------|
| | | | | | 0 | | | | | |
| | | | | | 2 | | | | Hand Auger, Not Logged | |
| | | | | | 4 | | | | | |
| | | | | | 6 | | | | | |
| | moist | 0.6 | none | | 8 | 2' | 2' | | 6' → 16.5' Sandy (fg) clay, tan, no odor, no stain, mod. cohesion, mod. plasticity, moist | |
| | | 0.8 | | | 10 | 4' | 4' | CH | → trace coarse sand 10' → 16.5' | |
| | | 1.0 | | | 12 | | | | 16.5' → 20' v. sandy (fg-silg) clay, brown, low cohesion, low plasticity, no stain, no odor, moist | |
| | | 0.4 | | | 14 | | | | → 6" stringer clayey fg sand @ 18', brown, no odor, no stain, wet | |
| | | 0.9 | | | 16 | 4' | 4' | | | |
| | | 1.6 | | | 18 | 2' | 2' | CL | 20' → 23.75' clay, trace coarse sand, brown, no odor, no stain, high cohesion, high plasticity, moist | |
| | wet moist | 0.4 | | SBO32 20' (1255) | 20 | 2' | 2' | CL | 23.75' → 28' Sandy (fg → coarse) clay, tan, no odor, no stain, low cohesion, mod. plasticity, moist | |
| | | 0.6 | | | 22 | 2' | 2' | CH | → 1" stringer v. fg → fg sand tan, no odor, no stain, moist @ 27' | |
| | | 0.7 | | | 24 | 2' | 2' | | | |
| | | 0.6 | | | 26 | 2' | 2' | CL | | |
| | | 0.1 | | SBO32 28' (1300) | 28 | 2' | 2' | | → Refusal @ 28' | |
| | | | | | 30 | | | | → Temp well PVC Riser | |
| | | | | | 32 | | | | | |
| | | | | | 34 | | | | | |
| | | | | | 36 | | | | | |
| | | | | | 38 | | | | | |
| | | | | | 40 | | | | | |

NOTES:

Well Location Sketch:



Compliance · Engineering · Remediation

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, Colorado 80003

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

| | |
|--|-----------------------------|
| Boring/Well Number: <i>SB04/TM204</i> | Project: Four Way #1 |
| Date: <i>5/5/2016</i> | Project Number: 14216073 |
| Logged By: Kris Shepherd | Drilled By: Drill Pro |

| | | | |
|------------|------------------|---------------------------------|--------------------------------|
| Elevation: | Detector: PID | Drilling Method: Direct Push | Sampling Method: Continuous |
|------------|------------------|---------------------------------|--------------------------------|

| | | |
|-----------------------------|--------------------|-------------|
| Gravel Pack: Silica Sand | Seal: Bentonite | Grout: - |
|-----------------------------|--------------------|-------------|

| | | | | |
|---------------------|-----------------|---------------|----------------------|-----------------------|
| Casing Type: PVC | Diameter: 1" | Length: 8' | Hole Diameter: 3" | Depth to Liquid: - |
|---------------------|-----------------|---------------|----------------------|-----------------------|

| | | | | | |
|---------------------|---------------|-----------------|----------------|---------------------|----------------------|
| Screen Type: PVC | Slot: 0.01 | Diameter: 1" | Length: 20' | Total Depth: 28' | Depth to Water: - |
|---------------------|---------------|-----------------|----------------|---------------------|----------------------|

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Run | Recovery | Soil/Rock Type | Lithology/Remarks | Well Completion Diagram |
|------------------------|------------------|-------------|----------|-------------------|------------------|------------|----------|----------------|---|-------------------------|
| | | | | | 0 | | | | | |
| | | | | | 2 | | | | Hand Auger, Not Logged | |
| | | | | | 4 | | | | | |
| | | | | | 6 | | | | | |
| | moist | 0.3 | none | | 8 | 2' | 2' | | 6' → 18.5' Clay, tan, mod. cohesion, mod. plasticity, no odor, no stain, Moist | |
| | | 0.8 | | | 10 | 4' | 4' | | → trace gravel & coarse sand 14' → 18.5' | |
| | | 0.6 | | | 12 | | | CH | 18.5' → 20.5' Sandy (v.fg → mg) clay, low cohesion, low plasticity, brown, no odor, no stain, Moist | |
| | | 0.5 | | | 14 | 4' | 4' | | 20.5' → 25' Clay, trace mg → coarse sand, brown, no odor, no stain, mod. cohesion, high plasticity, moist | |
| | | 0.8 | | | 16 | | | | | |
| | | 0.7 | | | 18 | 2' | 2' | | | |
| | | 0.5 | | | 20 | 2' | 2' | CL | 25' → 28' Sandy (mg → coarse) clay, brown, no odor, no stain, mod. cohesion, low plasticity, moist | |
| | | 0.7 | | SB04 @ 20' (1410) | 22 | 2' | 2' | | | |
| | | 0.6 | | | 24 | 2' | 2' | CH | → Refusal @ 28' | |
| | | 0.4 | | | 26 | 2' | 2' | | → Temp well PVC Riser | |
| | | 0.8 | | SB04 @ 28' (1415) | 28 | 2' | 2' | CL | | |
| | | | | | 30 | | | | | |
| | | | | | 32 | | | | | |
| | | | | | 34 | | | | | |
| | | | | | 36 | | | | | |
| | | | | | 38 | | | | | |
| | | | | | 40 | | | | | |

Well Location Sketch:



Compliance · Engineering · Remediation

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, Colorado 80003

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

| | |
|--|-----------------------------|
| Boring/Well Number: <i>SB05/TMW05</i> | Project: Four Way #1 |
| Date: <i>5/5/2016</i> | Project Number: 14216073 |
| Logged By: Kris Shepherd | Drilled By: Drill Pro |

See SB01 log

| | | | |
|------------|------------------|---------------------------------|--------------------------------|
| Elevation: | Detector: PID | Drilling Method: Direct Push | Sampling Method: Continuous |
|------------|------------------|---------------------------------|--------------------------------|

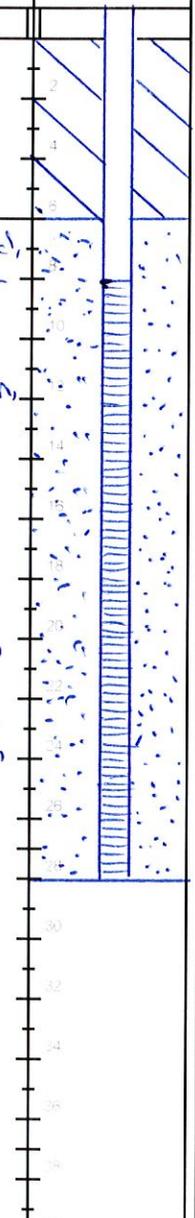
| | | |
|-----------------------------|--------------------|-------------|
| Gravel Pack: Silica Sand | Seal: Bentonite | Grout: - |
|-----------------------------|--------------------|-------------|

| | | | | |
|---------------------|-----------------|---------------|----------------------|-----------------------|
| Casing Type: PVC | Diameter: 1" | Length: 8' | Hole Diameter: 3" | Depth to Liquid: - |
|---------------------|-----------------|---------------|----------------------|-----------------------|

| | | | | | |
|---------------------|---------------|-----------------|----------------|----------------------|----------------------|
| Screen Type: PVC | Slot: 0.01 | Diameter: 1" | Length: 20' | Total Depth: ~28' | Depth to Water: - |
|---------------------|---------------|-----------------|----------------|----------------------|----------------------|

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Run | Recovery | Soil/Rock Type | Lithology/Remarks | Well Completion Diagram |
|------------------------|------------------|-------------|-------------|----------|------------------|--------------|----------|----------------|--|-------------------------|
| | | | | | 0 | | | | | |
| | | | | | 2 | | | | Hand Auger, Not Logged | |
| | | | | | 4 | | | | | |
| | | | | | 6 | | | | | |
| | <i>moist</i> | <i>0.5</i> | <i>none</i> | | <i>8</i> | <i>2' 2'</i> | | | <i>6' → 15' clay, trace coarse sand, brown, no odor, no stain, mod. cohesion, mod. plasticity, moist</i> | |
| | | <i>0.5</i> | | | <i>10</i> | <i>4' 4'</i> | | <i>CH</i> | <i>15' → 18.25' gravelly sandy clay, low cohesion, low plasticity, brown, no odor, no stain, moist</i> | |
| | | <i>0.5</i> | | | <i>12</i> | | | | <i>→ 2" stringer fg → Mg sand, brown, no stain/odor, moist @ 17' bgs</i> | |
| | | <i>0.5</i> | | | <i>14</i> | <i>4' 4'</i> | | | | |
| | | <i>0.9</i> | | | <i>16</i> | | | | | |
| | | <i>0.2</i> | | | <i>18</i> | <i>2' 2'</i> | | <i>CL</i> | <i>18.25' → 19.5' Mg → Mg sand, brown, no stain, no odor, moist</i> | |
| | | <i>0.6</i> | | | <i>20</i> | <i>2' 2'</i> | | <i>SP</i> | <i>19.5' → 26' clay, brown, mod. plasticity, high cohesion, no odor, no stain, moist</i> | |
| | | <i>0.3</i> | | | <i>22</i> | <i>2' 2'</i> | | | <i>26' → 28' sandy clay (fg) mod. cohesion, mod. plasticity, brown, no odor, no stain, moist</i> | |
| | | <i>0.6</i> | | | <i>24</i> | <i>2' 2'</i> | | <i>CH</i> | | |
| | | <i>0.1</i> | | | <i>26</i> | <i>2' 2'</i> | | | <i>→ Refusal @ 28'</i> | |
| | | <i>0.7</i> | | | <i>28</i> | <i>2' 2'</i> | | <i>CL</i> | <i>→ Temp. Well PVC Riser</i> | |
| | | | | | 30 | | | | | |
| | | | | | 32 | | | | | |
| | | | | | 34 | | | | | |
| | | | | | 36 | | | | | |
| | | | | | 38 | | | | | |
| | | | | | 40 | | | | | |

SB05 @ 20' (1510)
SB05 @ 24' (1515)
SB05 @ 28' (1520)





July 07, 2016

LT Environmental, Inc.

John Cocroft

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Four Way #1

Project Number - [none]

Attached are your analytical results for KMG - Four Way #1 received by Origins Laboratory, Inc. April 14, 2016. This project is associated with Origins project number X604163-05.

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

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

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

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

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

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



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

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

John Cocroft
Project Number: [none]
Project: KMG - Four Way #1

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|------------|---------------|--------|----------------------|------------------|
| N-B01 @ 5' | X604163-05 | Soil | April 14, 2016 16:20 | 04/14/2016 17:30 |

Per the email from Mike Furtaw on 07/07/16, sample ID B01 @5' was changed to N-B01 @5'.

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.

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

John Cocroft
 Project Number: [none]
 Project: KMG - Four Way #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X604163

Client: LTE

Client Project ID: Four Way #1

Checklist Completed by: Jeff Smith

Shipped Via: H/D
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 4/14/16

Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 152 °C 1 °C 1 °C (Describe)

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 ⁽¹⁾ ? | X | | | |
| 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) | | ✓ | | |
| 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 ⁽¹⁾ ? | X | | | |
| Was adequate sample volume provided ⁽¹⁾ ? | ✓ | | | |
| Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ? | X | | | DH |
| Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ? | X | | | |
| Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ? | ✓ | | | |
| Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ? | ✓ | | | |
| Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ? | ✓ | | | |
| For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative. | | | ✓ | |
| Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH) | | | ✓ | |
| Additional Comments (if any): | | | | |

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

Jeff Smith
 Reviewed by (Project Manager)

4/14/16
 Date/Time Reviewed

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.

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

John Cocroft
 Project Number: [none]
 Project: KMG - Four Way #1

N-B01 @ 5'
4/14/2016 4:20:00PM

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

Origins Laboratory, Inc.
X604163-05 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | 1 | B6D1405 | 04/14/2016 | 04/14/2016 | U |
| Residual Range Organics (C28-C40) | ND | 200 | " | " | " | " | " | U |

Surrogate: o-Terphenyl 88.3 % 59-131 " " "

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|----|-------|-------|---|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 0.200 | mg/kg | 1 | B6D1404 | 04/14/2016 | 04/15/2016 | 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 110 % 70-130 " " "
Surrogate: Toluene-d8 97.7 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 9.05 | | pH Units | 1 | B6D1407 | 04/14/2016 | 04/14/2016 | |
|----|------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|--------|--|----------|---|---------|------------|---|--|
| Specific Conductance (EC) | 0.0220 | | mmhos/cm | " | B6D1408 | 04/14/2016 | " | |
|---------------------------|--------|--|----------|---|---------|------------|---|--|

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.

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

John Cocroft
 Project Number: [none]
 Project: KMG - Four Way #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 B6D1404 - EPA 5030 (soil)

Blank (B6D1404-BLK1)

Prepared: 04/14/2016 Analyzed: 04/14/2016

| | | | | | | | | | | |
|----------------------------------|----|-------|-------|------|--|------|--------|--|--|---|
| 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 | | 109 | 70-130 | | | |
| Surrogate: Toluene-d8 | 61 | | " | 62.5 | | 98.2 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 63 | | " | 62.5 | | 100 | 70-130 | | | |

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.

Jen Pellegrini For Noelle Doyle Mathis, President

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

John Cocroft
 Project Number: [none]
 Project: KMG - Four Way #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 B6D1404 - EPA 5030 (soil)

LCS (B6D1404-BS1)

Prepared: 04/14/2016 Analyzed: 04/14/2016

| | | | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|--|------|----------|--|--|--|
| Benzene | 0.100 | 0.002 | mg/kg | 0.100 | | 100 | 77.1-124 | | | |
| Toluene | 0.105 | 0.002 | " | 0.100 | | 105 | 74.5-128 | | | |
| Ethylbenzene | 0.114 | 0.002 | " | 0.100 | | 114 | 66.4-127 | | | |
| m,p-Xylene | 0.234 | 0.004 | " | 0.200 | | 117 | 76.6-124 | | | |
| o-Xylene | 0.112 | 0.002 | " | 0.100 | | 112 | 76.6-124 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 62 | | ug/kg | 62.5 | | 98.5 | 70-130 | | | |
| Surrogate: Toluene-d8 | 63 | | " | 62.5 | | 101 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 62 | | " | 62.5 | | 99.3 | 70-130 | | | |

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.

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

John Cocroft
 Project Number: [none]
 Project: KMG - Four Way #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 B6D1404 - EPA 5030 (soil)

| Matrix Spike (B6D1404-MS1) | Source: X604132-01 | | | Prepared: 04/14/2016 Analyzed: 04/14/2016 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|----|------|----------|--|--|--|
| Benzene | 0.097 | 0.002 | mg/kg | 0.100 | ND | 96.8 | 71.8-126 | | | |
| Toluene | 0.112 | 0.002 | " | 0.100 | ND | 112 | 65.1-130 | | | |
| Ethylbenzene | 0.111 | 0.002 | " | 0.100 | ND | 111 | 62.2-130 | | | |
| m,p-Xylene | 0.235 | 0.004 | " | 0.200 | ND | 117 | 46.5-137 | | | |
| o-Xylene | 0.112 | 0.002 | " | 0.100 | ND | 112 | 54.2-134 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 68 | | ug/kg | 62.5 | | 109 | 70-130 | | | |
| Surrogate: Toluene-d8 | 62 | | " | 62.5 | | 98.8 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 65 | | " | 62.5 | | 103 | 70-130 | | | |

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.

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

John Cocroft
 Project Number: [none]
 Project: KMG - Four Way #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 B6D1404 - EPA 5030 (soil)

| Matrix Spike Dup (B6D1404-MSD1) | Source: X604132-01 | | | Prepared: 04/14/2016 Analyzed: 04/15/2016 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|----|------|----------|------|------|--|
| Benzene | 0.095 | 0.002 | mg/kg | 0.100 | ND | 95.1 | 71.8-126 | 1.75 | 11.3 | |
| Toluene | 0.106 | 0.002 | " | 0.100 | ND | 106 | 65.1-130 | 5.64 | 15.4 | |
| Ethylbenzene | 0.108 | 0.002 | " | 0.100 | ND | 108 | 62.2-130 | 2.88 | 19.6 | |
| m,p-Xylene | 0.226 | 0.004 | " | 0.200 | ND | 113 | 46.5-137 | 3.79 | 19.2 | |
| o-Xylene | 0.108 | 0.002 | " | 0.100 | ND | 108 | 54.2-134 | 3.00 | 17.9 | |
| Surrogate: 1,2-Dichloroethane-d4 | 70 | | ug/kg | 62.5 | | 113 | 70-130 | | | |
| Surrogate: Toluene-d8 | 62 | | " | 62.5 | | 98.9 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 64 | | " | 62.5 | | 102 | 70-130 | | | |

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.

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

John Cocroft
 Project Number: [none]
 Project: KMG - Four Way #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 B6D1405 - EPA 3580

Blank (B6D1405-BLK1)

Prepared: 04/14/2016 Analyzed: 04/14/2016

| | | | | | | | | | | |
|-----------------------------------|----|------|-------|------|--|------|--------|--|--|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | | | | | | | U |
| Residual Range Organics (C28-C40) | ND | 200 | " | | | | | | | U |
| Surrogate: o-Terphenyl | 49 | | " | 50.0 | | 97.8 | 59-131 | | | |

LCS (B6D1405-BS1)

Prepared: 04/14/2016 Analyzed: 04/14/2016

| | | | | | | | | | | |
|-----------------------------------|------|------|-------|------|--|-----|--------|--|--|--|
| Diesel (C10-C28) | 1120 | 50.0 | mg/kg | 1000 | | 112 | 64-121 | | | |
| Residual Range Organics (C28-C40) | 1020 | 200 | " | 1000 | | 102 | 58-124 | | | |
| Surrogate: o-Terphenyl | 51 | | " | 50.0 | | 102 | 59-131 | | | |

Matrix Spike (B6D1405-MS1)

Source: X604135-01

Prepared: 04/14/2016 Analyzed: 04/14/2016

| | | | | | | | | | | |
|-----------------------------------|------|------|-------|------|----|-----|--------|--|--|--|
| Diesel (C10-C28) | 1030 | 50.0 | mg/kg | 1000 | ND | 103 | 53-125 | | | |
| Residual Range Organics (C28-C40) | 1020 | 200 | " | 1000 | ND | 102 | 47-133 | | | |
| Surrogate: o-Terphenyl | 52 | | " | 50.0 | | 103 | 59-131 | | | |

Matrix Spike Dup (B6D1405-MSD1)

Source: X604135-01

Prepared: 04/14/2016 Analyzed: 04/14/2016

| | | | | | | | | | | |
|-----------------------------------|------|------|-------|------|----|------|--------|------|----|--|
| Diesel (C10-C28) | 1010 | 50.0 | mg/kg | 1000 | ND | 101 | 53-125 | 2.14 | 20 | |
| Residual Range Organics (C28-C40) | 987 | 200 | " | 1000 | ND | 98.7 | 47-133 | 3.26 | 20 | |
| Surrogate: o-Terphenyl | 49 | | " | 50.0 | | 97.4 | 59-131 | | | |

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.

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

John Cocroft
 Project Number: [none]
 Project: KMG - Four Way #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 |
|---------------------------------|---------|---|----------|-------------|---|------|-------------|------|-----------|-------|
| Batch B6D1407 - NO PREP | | | | | | | | | | |
| Duplicate (B6D1407-DUP1) | | Source: X604164-01 | | | Prepared: 04/14/2016 Analyzed: 04/14/2016 | | | | | |
| pH | 8.73 | | pH Units | | 8.57 | | | 1.85 | 25 | |
| Batch B6D1408 - NO PREP | | | | | | | | | | |
| Blank (B6D1408-BLK1) | | Prepared: 04/14/2016 Analyzed: 04/14/2016 | | | | | | | | |
| Specific Conductance (EC) | 0.00240 | | mmhos/cm | | | | | | | |
| Duplicate (B6D1408-DUP1) | | Source: X604164-01 | | | Prepared: 04/14/2016 Analyzed: 04/14/2016 | | | | | |
| Specific Conductance (EC) | 0.196 | | mmhos/cm | | 0.162 | | | 18.6 | 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.

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

John Cocroft
Project Number: [none]
Project: KMG - Four Way #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.



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.

Jen Pellegrini For Noelle Doyle Mathis, President

July 07, 2016

LT Environmental, Inc.

John Cocroft

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Four Way #1

Project Number - 014216073/WO# 211279

Attached are your analytical results for KMG - Four Way #1 received by Origins Laboratory, Inc. April 19, 2016. This project is associated with Origins project number X604205-01.

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

John Cocroft
Project Number: 014216073/WO# 2112791.PAB
Project: KMG - Four Way #1

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-------------|---------------|--------|----------------------|------------------|
| N01 @ 7' | X604205-01 | Soil | April 19, 2016 12:15 | 04/19/2016 16:25 |
| E01 @ 7' | X604205-02 | Soil | April 19, 2016 12:20 | 04/19/2016 16:25 |
| W01 @ 7' | X604205-03 | Soil | April 19, 2016 12:25 | 04/19/2016 16:25 |
| S01 @ 7' | X604205-04 | Soil | April 19, 2016 12:30 | 04/19/2016 16:25 |
| S-B01 @ 14' | X604205-05 | Soil | April 19, 2016 12:35 | 04/19/2016 16:25 |

Per the email from Mike Furtaw on 07/07/16, the following sample IDs were changed:

- S-N01@7' to N01@7'
- S-E01@7' to E01@7'
- S-W01@7' to W01@7'
- S-S01@7' to S01@7'

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1

www.originslaboratory.com

X604205

page 1 of 1

ORIGINS
 LABORATORY, INC

Client: LTE
 Address: 4600 W 60TH AVE
ARVADA CO 80003
 Telephone Number: 303-433-9700
 Email Address: Jcocroft@LTENV.com

Project Manager: JOHN COCROFT
 Project Name: FOUR WAY #1
 Project Number: 014216073
 Samples Collected By: RZ
 ATT: SAM LARUE WO# 2112791.PAB

1725 EIK 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 ₃ | Other | Groundwater | Soil | Air | Summa | Other | As | Pb | | Fe |
| S-Nb10 7' | 4/19/16 | 1215 | 2 | X | | | | X | | | X | X | X | X | Hold SAC | 1 |
| S-Eo10 7' | | 1220 | 2 | X | | | | X | | | X | X | X | X | Hold SAC | 2 |
| S-Wo10 7' | | 1225 | 2 | X | | | | X | | | X | X | X | X | Hold SAC | 3 |
| S-So10 7' | | 1230 | 2 | X | | | | X | | | X | X | X | X | Hold SAC | 4 |
| S-Bo10 14' | | 1235 | 2 | X | | | | X | | | X | X | X | X | Hold SAC | 5 |
| S-B901 | V | 1240 | 2 | X | | | | X | | | X | X | X | X | Hold All | 6 |
| | | | | | | | | | | | | | | | | 7 |
| | | | | | | | | | | | | | | | | 8 |
| | | | | | | | | | | | | | | | | 9 |
| | | | | | | | | | | | | | | | | 10 |
| Relinquished By: <u>[Signature]</u> | Date: <u>4/19/16</u> | Time: <u>1547</u> | Received By: <u>[Signature]</u> | Date: <u>4-19-16</u> | Time: <u>3:46</u> | Turnaround Time: <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr | | | | | | | | | | |
| Relinquished By: <u>[Signature]</u> | Date: <u>4-19-16</u> | Time: <u>4:28</u> | Received By: <u>[Signature]</u> | Date: <u>4/19/16</u> | Time: <u>12:5</u> | Standard <input type="checkbox"/> | | | | | | | | | | |

Temp Received: 4.4 Date Results Needed: WED 4/20/16

Origins Laboratory, Inc.

Jefe Pellegrini

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1

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

Sample Receipt Checklist

Origins Work Order: X604205 Client: LTE
 Client Project ID: Four Way #1

Checklist Completed by: Jeff Smith Shipped Via: HTD
 Date/time completed: 4/19/16 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: _____ °C _____ °C _____ °C (Describe)

Thermometer ID: 7003

| Requirement Description | Yes | No | N/A | Comments (if any) |
|---|-----|----|-----|-------------------|
| If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ? | | | | |
| 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) | | Y | | |
| Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact) | | Y | | |
| Were all samples received intact ⁽¹⁾ ? | X | | | |
| Was adequate sample volume provided ⁽¹⁾ ? | X | | | |
| Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ? | X | | | PH |
| Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ? | X | | | |
| Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ? | Y | | | |
| Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ? | Y | | | |
| Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ? | X | | | |
| For volatiles in water – is there headspace (> ¼ inch bubble) present? if yes, contact client and note in narrative. | | | X | |
| Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH) | | | Y | |
| Additional Comments (if any): | | | | |

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


 Reviewed by (Project Manager) 4/19/16
Date/Time Reviewed

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1

N01 @ 7'
4/19/2016 12:15:00PM

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

Origins Laboratory, Inc.
X604205-01 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B6D1904 | 04/19/2016 | 04/19/2016 | U |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

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

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|----|-------|-------|----|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 5.00 | mg/kg | 25 | B6D1903 | 04/19/2016 | 04/20/2016 | 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 107 % 70-130 " " "
Surrogate: Toluene-d8 99.0 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 95.2 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.35 | | pH Units | 1 | B6D1906 | 04/19/2016 | 04/19/2016 | |
|----|------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|-------|--|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.120 | | mmhos/cm | " | B6D1907 | 04/19/2016 | 04/19/2016 | |
|---------------------------|-------|--|----------|---|---------|------------|------------|--|

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1

E01 @ 7'
4/19/2016 12:20:00PM

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

Origins Laboratory, Inc.
X604205-02 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B6D1904 | 04/19/2016 | 04/19/2016 | U |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

Surrogate: *o*-Terphenyl 73.8 % 59-131 " " "

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|----|-------|-------|----|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 5.00 | mg/kg | 25 | B6D1903 | 04/19/2016 | 04/20/2016 | 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 106 % 70-130 " " "
 Surrogate: Toluene-d8 98.1 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 95.7 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.14 | | pH Units | 1 | B6D1906 | 04/19/2016 | 04/19/2016 | |
|----|------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|-------|--|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.140 | | mmhos/cm | " | B6D1907 | 04/19/2016 | 04/19/2016 | |
|---------------------------|-------|--|----------|---|---------|------------|------------|--|

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1

W01 @ 7'
4/19/2016 12:25:00PM

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

Origins Laboratory, Inc.
X604205-03 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B6D1904 | 04/19/2016 | 04/19/2016 | U |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

Surrogate: *o*-Terphenyl 79.8 % 59-131 " " "

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|----|-------|-------|---|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 0.200 | mg/kg | 1 | B6D1903 | 04/19/2016 | 04/19/2016 | 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 122 % 70-130 " " "
 Surrogate: Toluene-d8 94.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.1 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.00 | | pH Units | 1 | B6D1906 | 04/19/2016 | 04/19/2016 | |
|----|------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|--------|--|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.0830 | | mmhos/cm | " | B6D1907 | 04/19/2016 | 04/19/2016 | |
|---------------------------|--------|--|----------|---|---------|------------|------------|--|

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1

S01 @ 7'
4/19/2016 12:30:00PM

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

Origins Laboratory, Inc.
X604205-04 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B6D1904 | 04/19/2016 | 04/19/2016 | U |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

Surrogate: *o*-Terphenyl 84.9 % 59-131 " " "

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|----|-------|-------|---|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 0.200 | mg/kg | 1 | B6D1903 | 04/19/2016 | 04/19/2016 | 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 128 % 70-130 " " "
 Surrogate: Toluene-d8 95.2 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.4 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.21 | | pH Units | 1 | B6D1906 | 04/19/2016 | 04/19/2016 | |
|----|------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|-------|--|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.120 | | mmhos/cm | " | B6D1907 | 04/19/2016 | 04/19/2016 | |
|---------------------------|-------|--|----------|---|---------|------------|------------|--|

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1

S-B01 @ 14'
4/19/2016 12:35:00PM

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

Origins Laboratory, Inc.
X604205-05 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|------|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | 67.4 | 25.0 | mg/kg | 1 | B6D1904 | 04/19/2016 | 04/19/2016 | |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

| | | | | | | | | |
|--------------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: <i>o</i> -Terphenyl | 79.3 % | 59-131 | | | " | " | " | |
|--------------------------------|--------|--------|--|--|---|---|---|--|

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|-------|-------|-------|----|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | 145 | 5.00 | mg/kg | 25 | B6D1903 | 04/19/2016 | 04/20/2016 | |
| Benzene | 0.242 | 0.050 | " | " | " | " | " | |
| Toluene | ND | 0.050 | " | " | " | " | " | U |
| Ethylbenzene | 1.71 | 0.050 | " | " | " | " | " | |
| Xylenes, total | 26.4 | 0.050 | " | " | " | " | " | |

| | | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 109 % | 70-130 | | | " | " | " | |
| Surrogate: Toluene-d8 | 102 % | 70-130 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 93.3 % | 70-130 | | | " | " | " | |

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.59 | | pH Units | 1 | B6D1906 | 04/19/2016 | 04/19/2016 | |
|----|------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|-------|--|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.278 | | mmhos/cm | " | B6D1907 | 04/19/2016 | 04/19/2016 | |
|---------------------------|-------|--|----------|---|---------|------------|------------|--|

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #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 B6D1903 - EPA 5030 (soil) | | | | | | | | | | |
| Blank (B6D1903-BLK1) | | | | | | | | | | |
| | | | | | Prepared: 04/19/2016 Analyzed: 04/19/2016 | | | | | |
| 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 | 73 | | ug/kg | 62.5 | | 116 | 70-130 | | | |
| Surrogate: Toluene-d8 | 61 | | " | 62.5 | | 97.3 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 60 | | " | 62.5 | | 96.6 | 70-130 | | | |

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #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 B6D1903 - EPA 5030 (soil)

LCS (B6D1903-BS1)

Prepared: 04/19/2016 Analyzed: 04/19/2016

| | | | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|--|------|----------|--|--|--|
| Benzene | 0.108 | 0.002 | mg/kg | 0.100 | | 108 | 77.1-124 | | | |
| Toluene | 0.109 | 0.002 | " | 0.100 | | 109 | 74.5-128 | | | |
| Ethylbenzene | 0.113 | 0.002 | " | 0.100 | | 113 | 66.4-127 | | | |
| m,p-Xylene | 0.234 | 0.004 | " | 0.200 | | 117 | 76.6-124 | | | |
| o-Xylene | 0.111 | 0.002 | " | 0.100 | | 111 | 76.6-124 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 64 | | ug/kg | 62.5 | | 102 | 70-130 | | | |
| Surrogate: Toluene-d8 | 62 | | " | 62.5 | | 98.5 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 61 | | " | 62.5 | | 97.1 | 70-130 | | | |

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #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 B6D1903 - EPA 5030 (soil)

| Matrix Spike (B6D1903-MS1) | Source: X604165-03 | | | Prepared: 04/19/2016 Analyzed: 04/19/2016 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|----|------|----------|--|--|--|
| Benzene | 0.106 | 0.002 | mg/kg | 0.100 | ND | 106 | 71.8-126 | | | |
| Toluene | 0.105 | 0.002 | " | 0.100 | ND | 105 | 65.1-130 | | | |
| Ethylbenzene | 0.106 | 0.002 | " | 0.100 | ND | 106 | 62.2-130 | | | |
| m,p-Xylene | 0.222 | 0.004 | " | 0.200 | ND | 111 | 46.5-137 | | | |
| o-Xylene | 0.106 | 0.002 | " | 0.100 | ND | 106 | 54.2-134 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 71 | | ug/kg | 62.5 | | 113 | 70-130 | | | |
| Surrogate: Toluene-d8 | 61 | | " | 62.5 | | 98.0 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 60 | | " | 62.5 | | 96.3 | 70-130 | | | |

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #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 B6D1903 - EPA 5030 (soil)

| Matrix Spike Dup (B6D1903-MSD1) | Source: X604165-03 | | | Prepared: 04/19/2016 Analyzed: 04/19/2016 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|----|------|----------|------|------|--|
| Benzene | 0.097 | 0.002 | mg/kg | 0.100 | ND | 97.0 | 71.8-126 | 9.21 | 11.3 | |
| Toluene | 0.094 | 0.002 | " | 0.100 | ND | 94.3 | 65.1-130 | 11.0 | 15.4 | |
| Ethylbenzene | 0.095 | 0.002 | " | 0.100 | ND | 94.6 | 62.2-130 | 11.4 | 19.6 | |
| m,p-Xylene | 0.195 | 0.004 | " | 0.200 | ND | 97.7 | 46.5-137 | 12.5 | 19.2 | |
| o-Xylene | 0.095 | 0.002 | " | 0.100 | ND | 95.2 | 54.2-134 | 10.5 | 17.9 | |
| Surrogate: 1,2-Dichloroethane-d4 | 75 | | ug/kg | 62.5 | | 120 | 70-130 | | | |
| Surrogate: Toluene-d8 | 60 | | " | 62.5 | | 96.0 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 60 | | " | 62.5 | | 96.6 | 70-130 | | | |

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #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 B6D1904 - EPA 3580

Blank (B6D1904-BLK1)

Prepared: 04/19/2016 Analyzed: 04/19/2016

| | | | | | | | | | | |
|-----------------------------------|----|------|-------|------|--|------|--------|--|--|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | | | | | | | U |
| Residual Range Organics (C28-C40) | ND | 200 | " | | | | | | | U |
| Surrogate: o-Terphenyl | 45 | | " | 50.0 | | 90.4 | 59-131 | | | |

LCS (B6D1904-BS1)

Prepared: 04/19/2016 Analyzed: 04/19/2016

| | | | | | | | | | | |
|-----------------------------------|------|------|-------|------|--|------|--------|--|--|--|
| Diesel (C10-C28) | 1120 | 50.0 | mg/kg | 1000 | | 112 | 64-121 | | | |
| Residual Range Organics (C28-C40) | 945 | 200 | " | 1000 | | 94.5 | 58-124 | | | |
| Surrogate: o-Terphenyl | 54 | | " | 50.0 | | 109 | 59-131 | | | |

Matrix Spike (B6D1904-MS1)

Source: X604165-03

Prepared: 04/19/2016 Analyzed: 04/19/2016

| | | | | | | | | | | |
|-----------------------------------|------|------|-------|------|----|------|--------|--|--|--|
| Diesel (C10-C28) | 1180 | 50.0 | mg/kg | 1000 | ND | 118 | 53-125 | | | |
| Residual Range Organics (C28-C40) | 867 | 200 | " | 1000 | ND | 86.7 | 47-133 | | | |
| Surrogate: o-Terphenyl | 48 | | " | 50.0 | | 96.8 | 59-131 | | | |

Matrix Spike Dup (B6D1904-MSD1)

Source: X604165-03

Prepared: 04/19/2016 Analyzed: 04/19/2016

| | | | | | | | | | | |
|-----------------------------------|------|------|-------|------|----|------|--------|------|----|--|
| Diesel (C10-C28) | 1030 | 50.0 | mg/kg | 1000 | ND | 103 | 53-125 | 13.5 | 20 | |
| Residual Range Organics (C28-C40) | 819 | 200 | " | 1000 | ND | 81.9 | 47-133 | 5.76 | 20 | |
| Surrogate: o-Terphenyl | 53 | | " | 50.0 | | 105 | 59-131 | | | |

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #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 |
|---------------------------------|---------|---|----------|-------------|---|------|-------------|-------|-----------|-------|
| Batch B6D1906 - NO PREP | | | | | | | | | | |
| Duplicate (B6D1906-DUP1) | | Source: X604205-01 | | | Prepared: 04/19/2016 Analyzed: 04/19/2016 | | | | | |
| pH | 8.39 | | pH Units | | 8.35 | | | 0.478 | 25 | |
| Batch B6D1907 - NO PREP | | | | | | | | | | |
| Blank (B6D1907-BLK1) | | Prepared: 04/19/2016 Analyzed: 04/19/2016 | | | | | | | | |
| Specific Conductance (EC) | 0.00230 | | mmhos/cm | | | | | | | |
| Duplicate (B6D1907-DUP1) | | Source: X604205-01 | | | Prepared: 04/19/2016 Analyzed: 04/19/2016 | | | | | |
| Specific Conductance (EC) | 0.142 | | mmhos/cm | | 0.120 | | | 16.5 | 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.

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

John Cocroft
Project Number: 014216073/WO# 2112791.PAB
Project: KMG - Four Way #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.



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.

Jen Pellegrini For Noelle Doyle Mathis, President



July 07, 2016

LT Environmental, Inc.

John Cocroft

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Four Way #1 South

Project Number - 014216073/WO# 211279

Attached are your analytical results for KMG - Four Way #1 South received by Origins Laboratory, Inc. April 20, 2016. This project is associated with Origins project number X604218-01.

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

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

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

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

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

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



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

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

John Cocroft
Project Number: 014216073/WO# 2112791.PAB
Project: KMG - Four Way #1 South

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------------|------------------|
| B02 @ 20' | X604218-01 | Soil | April 20, 2016 15:50 | 04/20/2016 18:04 |
| N02 @ 16' | X604218-02 | Soil | April 20, 2016 16:00 | 04/20/2016 18:04 |
| E02 @ 16' | X604218-03 | Soil | April 20, 2016 16:05 | 04/20/2016 18:04 |
| S02 @ 16' | X604218-04 | Soil | April 20, 2016 16:10 | 04/20/2016 18:04 |
| W02 @ 16' | X604218-05 | Soil | April 20, 2016 16:20 | 04/20/2016 18:04 |

Per the email from Mike Furtaw on 07/07/16, the "S-" prefix was removed from all sample IDs.

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1 South

www.originslaboratory.com

page 1 of 1

ORIGINS
 LABORATORY, INC

X604218

Client: **LTE**
 Address: **4600 W 60th Ave Arvada CO**
 Telephone Number: **(303)433-9788**
 Email Address: **AFC Team**

Project Manager: **J. Cocroft**
 Project Name: **Four Way #1 South**
 Project Number: **014216073**
 Samples Collected By: **Kris Shepherd**
100 H 2112791.PAB Alt. Sam La Rive

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 ₃ | Other | Groundwater | Soil | Air Summa # | Other | Time | | Date | |
| S-B02@20' | 4/20/16 | 15:50 | 2 X | | | | | X | | | | X | X | 1 | Hold SAC |
| S-N02@16' | | 16:00 | 2 X | | | | | X | | | | X | X | 2 | |
| S-E02@16' | | 16:05 | 2 X | | | | | X | | | | X | X | 3 | |
| S-S02@16' | | 16:10 | 2 X | | | | | X | | | | X | X | 4 | |
| S-W02@16' | | 16:20 | 2 X | | | | | Y | | | | X | X | 5 | |
| | | | | | | | | | | | | | | 6 | |
| | | | | | | | | | | | | | | 7 | |
| | | | | | | | | | | | | | | 8 | |
| | | | | | | | | | | | | | | 9 | |
| | | | | | | | | | | | | | | 10 | |

Relinquished By: [Signature] Date: 4/20/16 Time: 5:22
 Relinquished By: [Signature] Date: 4/20/16 Time: 1:04
 Received By: [Signature] Date: 4/20/16 Time: 1:04
 Received By: [Signature] Date: 4/20/16 Time: 1:04
 Turnaround Time: Same Day 24 Hr 48 Hr 72 Hr Standard

Date Results Needed: 4/21/16 (0700)

2.4

Origins Laboratory, Inc.

Jefe Pellegrini

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1 South

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

Sample Receipt Checklist

Origins Work Order: X604218 Client: LTE
 Client Project ID: Four Way #1 South

Checklist Completed by: Jeff Smith Shipped Via: H/D
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Date/time completed: 4/20/12 Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 1 / 2.9 °C / _____ °C / _____ °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 ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Is there ice present (document if blue ice is used) | <input checked="" type="checkbox"/> | | | |
| Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact) | | <input checked="" type="checkbox"/> | | |
| Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact) | | <input checked="" type="checkbox"/> | | |
| Were all samples received intact ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Was adequate sample volume provided ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | <u>DU</u> |
| Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative. | | | <input checked="" type="checkbox"/> | |
| Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH) | | | <input checked="" type="checkbox"/> | |
| Additional Comments (if any): | | | | |

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


 Reviewed by (Project Manager) 4/20/12
 Date/Time Reviewed

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1 South

B02 @ 20'
4/20/2016 3:50:00PM

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

Origins Laboratory, Inc.
X604218-01 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|-----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | 935 | 25.0 | mg/kg | 1 | B6D2002 | 04/20/2016 | 04/20/2016 | |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

Surrogate: *o*-Terphenyl 93.4 % 59-131 " " "

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|------|-------|-------|-----|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | 1460 | 50.0 | mg/kg | 250 | B6D2001 | 04/20/2016 | 04/20/2016 | |
| Benzene | 1.82 | 0.050 | " | 25 | " | " | 04/20/2016 | |
| Toluene | ND | 0.050 | " | " | " | " | " | U |
| Ethylbenzene | 13.7 | 0.498 | " | 250 | " | " | 04/20/2016 | |
| Xylenes, total | 209 | 0.498 | " | " | " | " | " | |

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "
 Surrogate: Toluene-d8 102 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 92.4 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 9.92 | | pH Units | 1 | B6D2003 | 04/20/2016 | 04/20/2016 | |
|----|------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|-------|--|----------|---|---------|------------|---|--|
| Specific Conductance (EC) | 0.116 | | mmhos/cm | " | B6D2004 | 04/20/2016 | " | |
|---------------------------|-------|--|----------|---|---------|------------|---|--|

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1 South

N02 @ 16'
4/20/2016 4:00:00PM

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

Origins Laboratory, Inc.
X604218-02 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B6D2002 | 04/20/2016 | 04/20/2016 | U |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

Surrogate: o-Terphenyl 81.5 % 59-131 " " "

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|----|-------|-------|----|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 5.00 | mg/kg | 25 | B6D2001 | 04/20/2016 | 04/20/2016 | 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 100 % 70-130 " " "
Surrogate: Toluene-d8 98.6 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 94.7 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.71 | | pH Units | 1 | B6D2003 | 04/20/2016 | 04/20/2016 | |
|----|------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|-------|--|----------|---|---------|------------|---|--|
| Specific Conductance (EC) | 0.191 | | mmhos/cm | " | B6D2004 | 04/20/2016 | " | |
|---------------------------|-------|--|----------|---|---------|------------|---|--|

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1 South

E02 @ 16'
4/20/2016 4:05:00PM

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

Origins Laboratory, Inc.
X604218-03 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B6D2002 | 04/20/2016 | 04/20/2016 | U |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

Surrogate: o-Terphenyl 87.4 % 59-131 " " "

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|----|-------|-------|----|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 5.00 | mg/kg | 25 | B6D2001 | 04/20/2016 | 04/20/2016 | 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 101 % 70-130 " " "
Surrogate: Toluene-d8 99.4 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 95.2 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.47 | | pH Units | 1 | B6D2003 | 04/20/2016 | 04/20/2016 | |
|----|------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|-------|--|----------|---|---------|------------|---|--|
| Specific Conductance (EC) | 0.161 | | mmhos/cm | " | B6D2004 | 04/20/2016 | " | |
|---------------------------|-------|--|----------|---|---------|------------|---|--|

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1 South

S02 @ 16'
4/20/2016 4:10:00PM

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

Origins Laboratory, Inc.
X604218-04 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|------------|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | 465 | 25.0 | mg/kg | 1 | B6D2002 | 04/20/2016 | 04/20/2016 | |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

Surrogate: *o*-Terphenyl 83.7 % 59-131 " " "

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|--------------|-------|-------|-----|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | 351 | 5.00 | mg/kg | 25 | B6D2001 | 04/20/2016 | 04/20/2016 | |
| Benzene | 0.062 | 0.050 | " | " | " | " | " | |
| Toluene | ND | 0.050 | " | " | " | " | " | U |
| Ethylbenzene | 3.41 | 0.050 | " | " | " | " | " | |
| Xylenes, total | 69.5 | 0.498 | " | 250 | " | " | 04/20/2016 | |

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " 04/20/2016
 Surrogate: Toluene-d8 106 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 120 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|-------------|--|----------|---|---------|------------|------------|--|
| pH | 8.62 | | pH Units | 1 | B6D2003 | 04/20/2016 | 04/20/2016 | |
|----|-------------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|--------------|--|----------|---|---------|------------|---|--|
| Specific Conductance (EC) | 0.150 | | mmhos/cm | " | B6D2004 | 04/20/2016 | " | |
|---------------------------|--------------|--|----------|---|---------|------------|---|--|

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1 South

W02 @ 16'
4/20/2016 4:20:00PM

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

Origins Laboratory, Inc.
X604218-05 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B6D2002 | 04/20/2016 | 04/20/2016 | U |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

Surrogate: o-Terphenyl 88.8 % 59-131 " " "

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|----|-------|-------|---|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 0.200 | mg/kg | 1 | B6D2001 | 04/20/2016 | 04/20/2016 | 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 118 % 70-130 " " "
Surrogate: Toluene-d8 95.9 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 95.6 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.30 | | pH Units | 1 | B6D2003 | 04/20/2016 | 04/20/2016 | |
|----|------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|-------|--|----------|---|---------|------------|---|--|
| Specific Conductance (EC) | 0.122 | | mmhos/cm | " | B6D2004 | 04/20/2016 | " | |
|---------------------------|-------|--|----------|---|---------|------------|---|--|

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1 South

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 B6D2001 - EPA 5030 (soil) | | | | | | | | | | |
| Blank (B6D2001-BLK1) | | | | | | | | | | |
| | | | | | Prepared: 04/20/2016 Analyzed: 04/20/2016 | | | | | |
| 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 | | 109 | 70-130 | | | |
| Surrogate: Toluene-d8 | 61 | | " | 62.5 | | 97.9 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 61 | | " | 62.5 | | 97.2 | 70-130 | | | |

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1 South

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 B6D2001 - EPA 5030 (soil)

LCS (B6D2001-BS1)

Prepared: 04/20/2016 Analyzed: 04/20/2016

| | | | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|--|------|----------|--|--|--|
| Benzene | 0.103 | 0.002 | mg/kg | 0.100 | | 103 | 77.1-124 | | | |
| Toluene | 0.103 | 0.002 | " | 0.100 | | 103 | 74.5-128 | | | |
| Ethylbenzene | 0.106 | 0.002 | " | 0.100 | | 106 | 66.4-127 | | | |
| m,p-Xylene | 0.219 | 0.004 | " | 0.200 | | 109 | 76.6-124 | | | |
| o-Xylene | 0.105 | 0.002 | " | 0.100 | | 105 | 76.6-124 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 65 | | ug/kg | 62.5 | | 104 | 70-130 | | | |
| Surrogate: Toluene-d8 | 62 | | " | 62.5 | | 99.4 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 60 | | " | 62.5 | | 95.9 | 70-130 | | | |

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1 South

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 B6D2001 - EPA 5030 (soil)

| Matrix Spike (B6D2001-MS1) | Source: X604203-01 | | | Prepared: 04/20/2016 Analyzed: 04/20/2016 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|----|------|----------|--|--|--|
| Benzene | 0.102 | 0.002 | mg/kg | 0.100 | ND | 102 | 71.8-126 | | | |
| Toluene | 0.103 | 0.002 | " | 0.100 | ND | 103 | 65.1-130 | | | |
| Ethylbenzene | 0.102 | 0.002 | " | 0.100 | ND | 102 | 62.2-130 | | | |
| m,p-Xylene | 0.211 | 0.004 | " | 0.200 | ND | 106 | 46.5-137 | | | |
| o-Xylene | 0.100 | 0.002 | " | 0.100 | ND | 99.8 | 54.2-134 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 64 | | ug/kg | 62.5 | | 103 | 70-130 | | | |
| Surrogate: Toluene-d8 | 63 | | " | 62.5 | | 101 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 60 | | " | 62.5 | | 96.0 | 70-130 | | | |

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1 South

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 B6D2001 - EPA 5030 (soil)

| Matrix Spike Dup (B6D2001-MSD1) | Source: X604203-01 | | | Prepared: 04/20/2016 Analyzed: 04/20/2016 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|----|------|----------|-------|------|--|
| Benzene | 0.102 | 0.002 | mg/kg | 0.100 | ND | 102 | 71.8-126 | 0.137 | 11.3 | |
| Toluene | 0.102 | 0.002 | " | 0.100 | ND | 102 | 65.1-130 | 0.955 | 15.4 | |
| Ethylbenzene | 0.103 | 0.002 | " | 0.100 | ND | 103 | 62.2-130 | 0.722 | 19.6 | |
| m,p-Xylene | 0.212 | 0.004 | " | 0.200 | ND | 106 | 46.5-137 | 0.218 | 19.2 | |
| o-Xylene | 0.101 | 0.002 | " | 0.100 | ND | 101 | 54.2-134 | 1.43 | 17.9 | |
| Surrogate: 1,2-Dichloroethane-d4 | 61 | | ug/kg | 62.5 | | 97.0 | 70-130 | | | |
| Surrogate: Toluene-d8 | 63 | | " | 62.5 | | 100 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 60 | | " | 62.5 | | 95.9 | 70-130 | | | |

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1 South

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 B6D2002 - EPA 3580

Blank (B6D2002-BLK1)

Prepared: 04/20/2016 Analyzed: 04/20/2016

| | | | | | | | | | | |
|-----------------------------------|----|------|-------|------|--|------|--------|--|--|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | | | | | | | U |
| Residual Range Organics (C28-C40) | ND | 200 | " | | | | | | | U |
| Surrogate: o-Terphenyl | 48 | | " | 50.0 | | 96.1 | 59-131 | | | |

LCS (B6D2002-BS1)

Prepared: 04/20/2016 Analyzed: 04/20/2016

| | | | | | | | | | | |
|-----------------------------------|------|------|-------|------|--|------|--------|--|--|--|
| Diesel (C10-C28) | 1210 | 50.0 | mg/kg | 1000 | | 121 | 64-121 | | | |
| Residual Range Organics (C28-C40) | 939 | 200 | " | 1000 | | 93.9 | 58-124 | | | |
| Surrogate: o-Terphenyl | 62 | | " | 50.0 | | 123 | 59-131 | | | |

Matrix Spike (B6D2002-MS1)

Source: X604203-01

Prepared: 04/20/2016 Analyzed: 04/20/2016

| | | | | | | | | | | |
|-----------------------------------|------|------|-------|------|----|------|--------|--|--|--|
| Diesel (C10-C28) | 1040 | 50.0 | mg/kg | 1000 | ND | 104 | 53-125 | | | |
| Residual Range Organics (C28-C40) | 814 | 200 | " | 1000 | ND | 81.4 | 47-133 | | | |
| Surrogate: o-Terphenyl | 52 | | " | 50.0 | | 104 | 59-131 | | | |

Matrix Spike Dup (B6D2002-MSD1)

Source: X604203-01

Prepared: 04/20/2016 Analyzed: 04/20/2016

| | | | | | | | | | | |
|-----------------------------------|-----|------|-------|------|----|------|--------|------|----|--|
| Diesel (C10-C28) | 948 | 50.0 | mg/kg | 1000 | ND | 94.8 | 53-125 | 8.82 | 20 | |
| Residual Range Organics (C28-C40) | 731 | 200 | " | 1000 | ND | 73.1 | 47-133 | 10.7 | 20 | |
| Surrogate: o-Terphenyl | 48 | | " | 50.0 | | 96.0 | 59-131 | | | |

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1 South

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------|---------|---|----------|-------------|---|------|-------------|-------|-----------|-------|
| Batch B6D2003 - NO PREP | | | | | | | | | | |
| Duplicate (B6D2003-DUP1) | | Source: X604206-03 | | | Prepared: 04/20/2016 Analyzed: 04/20/2016 | | | | | |
| pH | 7.19 | | pH Units | | 7.20 | | | 0.139 | 25 | |
| Batch B6D2004 - NO PREP | | | | | | | | | | |
| Blank (B6D2004-BLK1) | | Prepared: 04/20/2016 Analyzed: 04/20/2016 | | | | | | | | |
| Specific Conductance (EC) | 0.00270 | | mmhos/cm | | | | | | | |
| Duplicate (B6D2004-DUP1) | | Source: X604206-03 | | | Prepared: 04/20/2016 Analyzed: 04/20/2016 | | | | | |
| Specific Conductance (EC) | 0.0854 | | mmhos/cm | | 0.0784 | | | 8.55 | 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.

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

John Cocroft
Project Number: 014216073/WO# 2112791.PAB
Project: KMG - Four Way #1 South

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.



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.

Jen Pellegrini For Noelle Doyle Mathis, President

April 22, 2016

LT Environmental, Inc.

John Cocroft

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Four Way #1 South

Project Number - 014216073/WO# 211279

Attached are your analytical results for KMG - Four Way #1 South received by Origins Laboratory, Inc. April 21, 2016. This project is associated with Origins project number X604226-01.

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

John Cocroft
Project Number: 014216073/WO# 2112791.PAB
Project: KMG - Four Way #1 South

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------------|------------------|
| S03 @ 16' | X604226-01 | Soil | April 21, 2016 13:20 | 04/21/2016 16:25 |

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1 South

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

Sample Receipt Checklist

Origins Work Order: X60422C Client: LTE
 Client Project ID: Four Way #1 South

Checklist Completed by: Jeff Smith Shipped Via: HTD
 Date/time completed: 4/21/16 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 1 / 3.7 °C / _____ °C / _____ °C (Describe)

Thermometer ID: T203

| Requirement Description | Yes | No | N/A | Comments (if any) |
|--|-----|----|-----|-------------------|
| If samples require cooling, was the temperature between 0°C to ≤ 6°C ^{(1)?} | X | | | |
| 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 ^{(1)?} | X | | | |
| Was adequate sample volume provided ^{(1)?} | X | | | |
| Are short holding time analytes or samples with HTs due within 48 hours present ^{(1)?} | X | | | PH |
| Is a chain-of-custody (COC) present and filled out completely ^{(1)?} | X | | | |
| Does the COC agree with the number and type of sample bottles received ^{(1)?} | X | | | |
| Do the sample IDs on the bottle labels match the COC ^{(1)?} | X | | | |
| Is the COC properly relinquished by the client with date and time recorded ^{(1)?} | X | | | |
| For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative. | | | X | |
| Are samples preserved that require preservation and was it checked ^{(1)?} (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH) | | | X | |
| Additional Comments (if any): | | | | |

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

John Cocroft Reviewed by (Project Manager) 4/21/16 Date/Time Reviewed

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1 South

S03 @ 16'
4/21/2016 1:20:00PM

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

Origins Laboratory, Inc.
X604226-01 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|----|-----|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | ND | 25 | mg/kg | 1 | B6D2103 | 04/21/2016 | 04/21/2016 | U |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

Surrogate: *o*-Terphenyl 93.4 % 59-131 " " "

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|----|-------|-------|---|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 0.20 | mg/kg | 1 | B6D2102 | 04/21/2016 | 04/21/2016 | 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 117 % 70-130 " " "
 Surrogate: Toluene-d8 96.4 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.5 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 7.68 | | pH Units | 1 | B6D2105 | 04/21/2016 | 04/21/2016 | |
|----|------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|-------|--|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.102 | | mmhos/cm | " | B6D2106 | 04/21/2016 | 04/21/2016 | |
|---------------------------|-------|--|----------|---|---------|------------|------------|--|

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1 South

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 B6D2102 - EPA 5030 (soil)

Blank (B6D2102-BLK1)

Prepared: 04/21/2016 Analyzed: 04/21/2016

| | | | | | | | | | | |
|----------------------------------|----|-------|-------|------|--|------|--------|--|--|---|
| Gasoline Range Hydrocarbons | ND | 0.20 | 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 | 72 | | ug/kg | 62.5 | | 116 | 70-130 | | | |
| Surrogate: Toluene-d8 | 60 | | " | 62.5 | | 95.5 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 61 | | " | 62.5 | | 97.2 | 70-130 | | | |

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1 South

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 B6D2102 - EPA 5030 (soil)

LCS (B6D2102-BS1)

Prepared: 04/21/2016 Analyzed: 04/21/2016

| | | | | | | | | | | |
|----------------------------------|------|-------|-------|-------|--|------|----------|--|--|--|
| Benzene | 0.10 | 0.002 | mg/kg | 0.100 | | 103 | 77.1-124 | | | |
| Toluene | 0.10 | 0.002 | " | 0.100 | | 103 | 74.5-128 | | | |
| Ethylbenzene | 0.10 | 0.002 | " | 0.100 | | 103 | 66.4-127 | | | |
| m,p-Xylene | 0.20 | 0.004 | " | 0.200 | | 101 | 76.6-124 | | | |
| o-Xylene | 0.10 | 0.002 | " | 0.100 | | 102 | 76.6-124 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 69 | | ug/kg | 62.5 | | 110 | 70-130 | | | |
| Surrogate: Toluene-d8 | 61 | | " | 62.5 | | 98.4 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 62 | | " | 62.5 | | 98.8 | 70-130 | | | |

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1 South

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 B6D2102 - EPA 5030 (soil)

| Matrix Spike (B6D2102-MS1) | Source: X604219-04 | | | Prepared: 04/21/2016 Analyzed: 04/21/2016 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|----|------|----------|--|--|--|
| Benzene | 0.12 | 0.002 | mg/kg | 0.100 | ND | 124 | 71.8-126 | | | |
| Toluene | 0.12 | 0.002 | " | 0.100 | ND | 124 | 65.1-130 | | | |
| Ethylbenzene | 0.12 | 0.002 | " | 0.100 | ND | 125 | 62.2-130 | | | |
| m,p-Xylene | 0.26 | 0.004 | " | 0.200 | ND | 131 | 46.5-137 | | | |
| o-Xylene | 0.13 | 0.002 | " | 0.100 | ND | 125 | 54.2-134 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 72 | | ug/kg | 62.5 | | 114 | 70-130 | | | |
| Surrogate: Toluene-d8 | 62 | | " | 62.5 | | 98.6 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 59 | | " | 62.5 | | 94.2 | 70-130 | | | |

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1 South

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 B6D2102 - EPA 5030 (soil)

| Matrix Spike Dup (B6D2102-MSD1) | Source: X604219-04 | | | Prepared: 04/21/2016 Analyzed: 04/21/2016 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|----|------|----------|------|------|-------|
| Benzene | 0.10 | 0.002 | mg/kg | 0.100 | ND | 95.9 | 71.8-126 | 25.5 | 11.3 | QR-02 |
| Toluene | 0.10 | 0.002 | " | 0.100 | ND | 95.9 | 65.1-130 | 25.4 | 15.4 | QR-02 |
| Ethylbenzene | 0.09 | 0.002 | " | 0.100 | ND | 92.7 | 62.2-130 | 29.5 | 19.6 | QR-02 |
| m,p-Xylene | 0.19 | 0.004 | " | 0.200 | ND | 93.3 | 46.5-137 | 33.4 | 19.2 | QR-03 |
| o-Xylene | 0.09 | 0.002 | " | 0.100 | ND | 93.6 | 54.2-134 | 28.9 | 17.9 | QR-02 |
| Surrogate: 1,2-Dichloroethane-d4 | 69 | | ug/kg | 62.5 | | 110 | 70-130 | | | |
| Surrogate: Toluene-d8 | 61 | | " | 62.5 | | 98.3 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 60 | | " | 62.5 | | 96.6 | 70-130 | | | |

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1 South

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 B6D2103 - EPA 3580

Blank (B6D2103-BLK1)

Prepared: 04/21/2016 Analyzed: 04/21/2016

| | | | | | | | | | | |
|-----------------------------------|----|-----|-------|------|--|-----|--------|--|--|---|
| Diesel (C10-C28) | ND | 50 | mg/kg | | | | | | | U |
| Residual Range Organics (C28-C40) | ND | 200 | " | | | | | | | U |
| Surrogate: o-Terphenyl | 64 | | " | 50.0 | | 128 | 59-131 | | | |

LCS (B6D2103-BS1)

Prepared: 04/21/2016 Analyzed: 04/21/2016

| | | | | | | | | | | |
|-----------------------------------|------|-----|-------|------|--|------|--------|--|--|--|
| Diesel (C10-C28) | 1000 | 50 | mg/kg | 1000 | | 101 | 64-121 | | | |
| Residual Range Organics (C28-C40) | 670 | 200 | " | 1000 | | 66.9 | 58-124 | | | |
| Surrogate: o-Terphenyl | 44 | | " | 50.0 | | 88.6 | 59-131 | | | |

Matrix Spike (B6D2103-MS1)

Source: X604219-04

Prepared: 04/21/2016 Analyzed: 04/21/2016

| | | | | | | | | | | |
|-----------------------------------|-----|-----|-------|------|----|------|--------|--|--|--|
| Diesel (C10-C28) | 940 | 50 | mg/kg | 1000 | ND | 93.6 | 53-125 | | | |
| Residual Range Organics (C28-C40) | 650 | 200 | " | 1000 | 15 | 63.8 | 47-133 | | | |
| Surrogate: o-Terphenyl | 43 | | " | 50.0 | | 86.1 | 59-131 | | | |

Matrix Spike Dup (B6D2103-MSD1)

Source: X604219-04

Prepared: 04/21/2016 Analyzed: 04/21/2016

| | | | | | | | | | | |
|-----------------------------------|------|-----|-------|------|----|------|--------|------|----|-------|
| Diesel (C10-C28) | 1200 | 50 | mg/kg | 1000 | ND | 116 | 53-125 | 21.0 | 20 | QR-02 |
| Residual Range Organics (C28-C40) | 870 | 200 | " | 1000 | 15 | 85.0 | 47-133 | 28.4 | 20 | QR-02 |
| Surrogate: o-Terphenyl | 52 | | " | 50.0 | | 104 | 59-131 | | | |

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1 South

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------|---------|---|----------|-------------|---|------|-------------|-------|-----------|-------|
| Batch B6D2105 - NO PREP | | | | | | | | | | |
| Duplicate (B6D2105-DUP1) | | Source: X604226-01 | | | Prepared: 04/21/2016 Analyzed: 04/21/2016 | | | | | |
| pH | 7.70 | | pH Units | | 7.68 | | | 0.260 | 25 | |
| Batch B6D2106 - NO PREP | | | | | | | | | | |
| Blank (B6D2106-BLK1) | | Prepared: 04/21/2016 Analyzed: 04/21/2016 | | | | | | | | |
| Specific Conductance (EC) | 0.00230 | | mmhos/cm | | | | | | | |
| Duplicate (B6D2106-DUP1) | | Source: X604226-01 | | | Prepared: 04/21/2016 Analyzed: 04/21/2016 | | | | | |
| Specific Conductance (EC) | 0.0823 | | mmhos/cm | | 0.102 | | | 21.3 | 25 | |

Origins Laboratory, Inc.



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

John Cocroft
Project Number: 014216073/WO# 2112791.PAB
Project: KMG - Four Way #1 South

Notes and Definitions

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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.



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.

May 06, 2016

LT Environmental, Inc.

John Cocroft

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Four Way #1

Project Number - 014216073/WO# 211279

Attached are your analytical results for KMG - Four Way #1 received by Origins Laboratory, Inc. May 05, 2016. This project is associated with Origins project number X605072-01.

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

John Cocroft
Project Number: 014216073/WO# 2112791.PAB
Project: KMG - Four Way #1

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|------------|---------------|--------|-------------------|------------------|
| SB01 @ 20' | X605072-01 | Soil | May 5, 2016 9:55 | 05/05/2016 17:03 |
| SB01 @ 28' | X605072-02 | Soil | May 5, 2016 10:00 | 05/05/2016 17:03 |
| SB02 @ 20' | X605072-03 | Soil | May 5, 2016 11:10 | 05/05/2016 17:03 |
| SB02 @ 24' | X605072-04 | Soil | May 5, 2016 11:15 | 05/05/2016 17:03 |
| SB03@ 20' | X605072-06 | Soil | May 5, 2016 12:55 | 05/05/2016 17:03 |
| SB03@ 28' | X605072-07 | Soil | May 5, 2016 13:00 | 05/05/2016 17:03 |
| SB04@ 20' | X605072-08 | Soil | May 5, 2016 14:10 | 05/05/2016 17:03 |
| SB04@ 28' | X605072-09 | Soil | May 5, 2016 14:15 | 05/05/2016 17:03 |
| SB05@ 20' | X605072-10 | Soil | May 5, 2016 15:10 | 05/05/2016 17:03 |
| SB05@ 24' | X605072-11 | Soil | May 5, 2016 15:15 | 05/05/2016 17:03 |

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.

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

John Cocroft
Project Number: 014216073/WO# 2112791.PAB
Project: KMG - Four Way #1

Samples SB05 @ 20' and SB05 @ 24' taken off hold per the email from Justin on 05/06/16. Same day TAT.

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1

www.originslaboratory.com

1605073

page 1 of 2

ORIGINS
 LABORATORY, INC

Client: LTE Project Manager: J. Cocroft
 Address: 4600 W 60th Ave Arvada CO Project Name: Four Way #1
 Telephone Number: (303)433-9788 Project Number: 014216073
 Email Address: AFC Team Samples Collected By: Kris Shepherd

ATTN: Sam LaRue AFE# 2112791.PAB

1725 EIK Pkce | 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 ₃ | Other | Groundwater | Soil | Air Summa # | Other | Analyst | | Time |
| SB01@20' | 5/5/16 | 0955 | 2 | X | | | | X | | | X | X | Hold SAR | 1 |
| SB01@28' | | 1000 | 2 | X | | | | X | | | X | X | | 2 |
| SB02@20' | | 1110 | 2 | X | | | | X | | | X | X | | 3 |
| SB02@24' | | 1115 | 2 | X | | | | X | | | X | X | | 4 |
| SB02@28' | | 1120 | 2 | X | | | | X | | | X | X | | 5 |
| SB03@20' | | 1255 | 2 | X | | | | X | | | X | X | | 6 |
| SB03@28' | | 1300 | 2 | X | | | | X | | | X | X | | 7 |
| SB04@20' | | 1410 | 2 | X | | | | X | | | X | X | | 8 |
| SB04@28' | | 1415 | 2 | X | | | | X | | | X | X | | 9 |
| SB05@20' | | 1510 | 2 | X | | | | X | | | X | X | | 10 |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | Turnaround Time: | | | | | | | | |
| <i>[Signature]</i> | 5/5/16 | 1625 | <i>[Signature]</i> | 5/5/16 | 1625 | 24 Hr <input type="checkbox"/> | | | | | | | | |
| <i>[Signature]</i> | 5-5-16 | 1703 | <i>[Signature]</i> | 5/5/14 | 1703 | 48 Hr <input type="checkbox"/> | | | | | | | | |
| | | | <i>[Signature]</i> | 5/16/16 | 0800 | Standard <input type="checkbox"/> | | | | | | | | |

Date Results Needed 5/16/16 0800

Origins Laboratory, Inc.

Jefe Pellegrini

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X605072

Client: LTE

Client Project ID: Four Way #1

Checklist Completed by: Jeff Smith

Shipped Via: H/D
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 5/5/16

Airbill #: NA

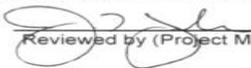
Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 1 / 5.5 °C 1 °C 1 °C (Describe) 1 °C

Thermometer ID: T1003

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

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


 Reviewed by (Project Manager)

5/5/16 1932
 Date/Time Reviewed

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1

SB01 @ 20'
5/5/2016 9:55:00AM

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

Origins Laboratory, Inc.
X605072-01 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|----|-----|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | ND | 25 | mg/kg | 1 | B6E0502 | 05/05/2016 | 05/05/2016 | U |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

Surrogate: o-Terphenyl 92.4 % 59-131 " " "

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|----|-------|-------|---|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 0.20 | mg/kg | 1 | B6E0501 | 05/05/2016 | 05/05/2016 | 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 114 % 70-130 " " "
Surrogate: Toluene-d8 97.6 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 95.7 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 7.50 | | pH Units | 1 | B6E0504 | 05/05/2016 | 05/05/2016 | |
|----|------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|--------|--|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.0596 | | mmhos/cm | " | B6E0505 | 05/05/2016 | 05/05/2016 | |
|---------------------------|--------|--|----------|---|---------|------------|------------|--|

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1

SB01 @ 28'
5/5/2016 10:00:00AM

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

Origins Laboratory, Inc.
X605072-02 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|----|-----|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | ND | 25 | mg/kg | 1 | B6E0502 | 05/05/2016 | 05/05/2016 | U |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

Surrogate: o-Terphenyl 82.0 % 59-131 " " "

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|----|-------|-------|---|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 0.20 | mg/kg | 1 | B6E0501 | 05/05/2016 | 05/05/2016 | 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 124 % 70-130 " " "
Surrogate: Toluene-d8 98.3 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 98.2 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 7.46 | | pH Units | 1 | B6E0504 | 05/05/2016 | 05/05/2016 | |
|----|------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|--------|--|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.0661 | | mmhos/cm | " | B6E0505 | 05/05/2016 | 05/05/2016 | |
|---------------------------|--------|--|----------|---|---------|------------|------------|--|

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1

SB02 @ 20'
5/5/2016 11:10:00AM

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

Origins Laboratory, Inc.
X605072-03 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|-----|-----|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | 540 | 25 | mg/kg | 1 | B6E0502 | 05/05/2016 | 05/05/2016 | |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

Surrogate: *o*-Terphenyl 73.9 % 59-131 " " "

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|-----|------|-------|----|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | 160 | 5.0 | mg/kg | 25 | B6E0501 | 05/05/2016 | 05/05/2016 | |
| Benzene | ND | 0.05 | " | " | " | " | " | U |
| Toluene | ND | 0.05 | " | " | " | " | " | U |
| Ethylbenzene | 1.0 | 0.05 | " | " | " | " | " | |
| Xylenes, total | 10 | 0.05 | " | " | " | " | " | |

Surrogate: 1,2-Dichloroethane-d4 111 % 70-130 " " "
 Surrogate: Toluene-d8 96.7 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 7.31 | | pH Units | 1 | B6E0504 | 05/05/2016 | 05/05/2016 | |
|----|------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|--------|--|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.0545 | | mmhos/cm | " | B6E0505 | 05/05/2016 | 05/05/2016 | |
|---------------------------|--------|--|----------|---|---------|------------|------------|--|

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1

SB02 @ 24'
5/5/2016 11:15:00AM

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

Origins Laboratory, Inc.
X605072-04 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|-----|-----|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | 170 | 25 | mg/kg | 1 | B6E0502 | 05/05/2016 | 05/05/2016 | |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

Surrogate: *o*-Terphenyl 79.2 % 59-131 " " "

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|-----|------|-------|-----|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | 160 | 5.0 | mg/kg | 25 | B6E0501 | 05/05/2016 | 05/05/2016 | |
| Benzene | ND | 0.05 | " | " | " | " | " | U |
| Toluene | 1.6 | 0.05 | " | " | " | " | " | |
| Ethylbenzene | 1.8 | 0.05 | " | " | " | " | " | |
| Xylenes, total | 22 | 0.50 | " | 250 | " | " | 05/06/2016 | |

Surrogate: 1,2-Dichloroethane-d4 118 % 70-130 " " 05/05/2016
 Surrogate: Toluene-d8 99.5 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 99.1 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 7.06 | | pH Units | 1 | B6E0504 | 05/05/2016 | 05/05/2016 | |
|----|------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|-------|--|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.109 | | mmhos/cm | " | B6E0505 | 05/05/2016 | 05/05/2016 | |
|---------------------------|-------|--|----------|---|---------|------------|------------|--|

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1

SB03@ 20'
5/5/2016 12:55:00PM

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

Origins Laboratory, Inc.
X605072-06 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|----|-----|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | ND | 25 | mg/kg | 1 | B6E0502 | 05/05/2016 | 05/05/2016 | U |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

Surrogate: *o*-Terphenyl 72.3 % 59-131 " " "

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|----|------|-------|----|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 5.0 | mg/kg | 25 | B6E0501 | 05/05/2016 | 05/05/2016 | U |
| Benzene | ND | 0.05 | " | " | " | " | " | U |
| Toluene | ND | 0.05 | " | " | " | " | " | U |
| Ethylbenzene | ND | 0.05 | " | " | " | " | " | U |
| Xylenes, total | ND | 0.05 | " | " | " | " | " | U |

Surrogate: 1,2-Dichloroethane-d4 112 % 70-130 " " "
 Surrogate: Toluene-d8 96.1 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 96.8 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 7.42 | | pH Units | 1 | B6E0504 | 05/05/2016 | 05/05/2016 | |
|----|------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|--------|--|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.0641 | | mmhos/cm | " | B6E0505 | 05/05/2016 | 05/05/2016 | |
|---------------------------|--------|--|----------|---|---------|------------|------------|--|

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1

SB03@ 28'
5/5/2016 1:00:00PM

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

Origins Laboratory, Inc.
X605072-07 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|----|-----|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | ND | 25 | mg/kg | 1 | B6E0502 | 05/05/2016 | 05/05/2016 | U |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

Surrogate: o-Terphenyl 68.9 % 59-131 " " "

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|----|-------|-------|---|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 0.20 | mg/kg | 1 | B6E0501 | 05/05/2016 | 05/05/2016 | 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 120 % 70-130 " " "
Surrogate: Toluene-d8 95.9 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 98.0 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 7.33 | | pH Units | 1 | B6E0504 | 05/05/2016 | 05/05/2016 | |
|----|------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|--------|--|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.0630 | | mmhos/cm | " | B6E0505 | 05/05/2016 | 05/05/2016 | |
|---------------------------|--------|--|----------|---|---------|------------|------------|--|

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1

SB04@ 20'
5/5/2016 2:10:00PM

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

Origins Laboratory, Inc.
X605072-08 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|----|-----|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | ND | 25 | mg/kg | 1 | B6E0502 | 05/05/2016 | 05/05/2016 | U |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

Surrogate: o-Terphenyl 75.7 % 59-131 " " "

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|----|-------|-------|---|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 0.20 | mg/kg | 1 | B6E0501 | 05/05/2016 | 05/05/2016 | 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 121 % 70-130 " " "
Surrogate: Toluene-d8 97.8 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 97.1 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 7.43 | | pH Units | 1 | B6E0504 | 05/05/2016 | 05/05/2016 | |
|----|------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|--------|--|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.0410 | | mmhos/cm | " | B6E0505 | 05/05/2016 | 05/05/2016 | |
|---------------------------|--------|--|----------|---|---------|------------|------------|--|

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1

SB04@ 28'
5/5/2016 2:15:00PM

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

Origins Laboratory, Inc.
X605072-09 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|----|-----|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | ND | 25 | mg/kg | 1 | B6E0502 | 05/05/2016 | 05/05/2016 | U |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

Surrogate: o-Terphenyl 77.4 % 59-131 " " "

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|----|-------|-------|---|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 0.20 | mg/kg | 1 | B6E0501 | 05/05/2016 | 05/05/2016 | 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 121 % 70-130 " " "
Surrogate: Toluene-d8 95.5 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 99.5 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 7.53 | | pH Units | 1 | B6E0504 | 05/05/2016 | 05/05/2016 | |
|----|------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|--------|--|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.0729 | | mmhos/cm | " | B6E0505 | 05/05/2016 | 05/05/2016 | |
|---------------------------|--------|--|----------|---|---------|------------|------------|--|

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1

SB05@ 20'
5/5/2016 3:10:00PM

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

Origins Laboratory, Inc.
X605072-10 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|----|-----|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | ND | 25 | mg/kg | 1 | B6E0603 | 05/06/2016 | 05/06/2016 | U |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

Surrogate: o-Terphenyl 84.8 % 59-131 " " "

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|----|-------|-------|---|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 0.20 | mg/kg | 1 | B6E0602 | 05/06/2016 | 05/06/2016 | 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 112 % 70-130 " " "
Surrogate: Toluene-d8 97.1 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 96.2 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.17 | | pH Units | 1 | B6E0604 | 05/06/2016 | 05/06/2016 | |
|----|------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|--------|--|----------|---|---------|---|---|--|
| Specific Conductance (EC) | 0.0697 | | mmhos/cm | " | B6E0605 | " | " | |
|---------------------------|--------|--|----------|---|---------|---|---|--|

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1

SB05@ 24'
5/5/2016 3:15:00PM

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

Origins Laboratory, Inc.
X605072-11 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|----|-----|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | ND | 25 | mg/kg | 1 | B6E0603 | 05/06/2016 | 05/06/2016 | U |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

Surrogate: o-Terphenyl 91.2 % 59-131 " " "

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|----|-------|-------|---|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 0.20 | mg/kg | 1 | B6E0602 | 05/06/2016 | 05/06/2016 | 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 114 % 70-130 " " "
Surrogate: Toluene-d8 98.4 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 95.2 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 7.75 | | pH Units | 1 | B6E0604 | 05/06/2016 | 05/06/2016 | |
|----|------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|-------|--|----------|---|---------|---|---|--|
| Specific Conductance (EC) | 0.102 | | mmhos/cm | " | B6E0605 | " | " | |
|---------------------------|-------|--|----------|---|---------|---|---|--|

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #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 B6E0501 - EPA 5030 (soil)

Blank (B6E0501-BLK1)

Prepared: 05/05/2016 Analyzed: 05/05/2016

| | | | | | | | | | | |
|----------------------------------|----|-------|-------|------|--|-----|--------|--|--|---|
| Gasoline Range Hydrocarbons | ND | 0.20 | 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 | 63 | | ug/kg | 62.5 | | 100 | 70-130 | | | |
| Surrogate: Toluene-d8 | 63 | | " | 62.5 | | 100 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 66 | | " | 62.5 | | 105 | 70-130 | | | |

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #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 B6E0501 - EPA 5030 (soil)

Blank (B6E0501-BLK2)

Prepared: 05/05/2016 Analyzed: 05/05/2016

| | | | | | | | | | | |
|----------------------------------|----|-------|-------|------|--|------|--------|--|--|---|
| Gasoline Range Hydrocarbons | ND | 0.20 | 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 | 70 | | ug/kg | 62.5 | | 112 | 70-130 | | | |
| Surrogate: Toluene-d8 | 62 | | " | 62.5 | | 98.4 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 63 | | " | 62.5 | | 101 | 70-130 | | | |

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #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 B6E0501 - EPA 5030 (soil)

LCS (B6E0501-BS1)

Prepared: 05/05/2016 Analyzed: 05/05/2016

| | | | | | | | | | | |
|----------------------------------|------|-------|-------|-------|--|------|----------|--|--|--|
| Benzene | 0.10 | 0.002 | mg/kg | 0.100 | | 102 | 77.1-124 | | | |
| Toluene | 0.10 | 0.002 | " | 0.100 | | 96.4 | 74.5-128 | | | |
| Ethylbenzene | 0.10 | 0.002 | " | 0.100 | | 101 | 66.4-127 | | | |
| m,p-Xylene | 0.21 | 0.004 | " | 0.200 | | 104 | 76.6-124 | | | |
| o-Xylene | 0.10 | 0.002 | " | 0.100 | | 97.7 | 76.6-124 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 65 | | ug/kg | 62.5 | | 103 | 70-130 | | | |
| Surrogate: Toluene-d8 | 63 | | " | 62.5 | | 100 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 64 | | " | 62.5 | | 102 | 70-130 | | | |

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John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #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 B6E0501 - EPA 5030 (soil)

LCS (B6E0501-BS2)

Prepared: 05/05/2016 Analyzed: 05/05/2016

| | | | | | | | | | | |
|----------------------------------|------|-------|-------|-------|--|------|----------|--|--|--|
| Benzene | 0.10 | 0.002 | mg/kg | 0.100 | | 101 | 77.1-124 | | | |
| Toluene | 0.11 | 0.002 | " | 0.100 | | 110 | 74.5-128 | | | |
| Ethylbenzene | 0.10 | 0.002 | " | 0.100 | | 103 | 66.4-127 | | | |
| m,p-Xylene | 0.23 | 0.004 | " | 0.200 | | 115 | 76.6-124 | | | |
| o-Xylene | 0.12 | 0.002 | " | 0.100 | | 117 | 76.6-124 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 69 | | ug/kg | 62.5 | | 110 | 70-130 | | | |
| Surrogate: Toluene-d8 | 62 | | " | 62.5 | | 98.7 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 61 | | " | 62.5 | | 98.3 | 70-130 | | | |

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 Arvada CO 80003

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #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 B6E0501 - EPA 5030 (soil)

| Matrix Spike (B6E0501-MS1) | Source: X605070-01 | | | Prepared: 05/05/2016 Analyzed: 05/05/2016 | | | | | | |
|-----------------------------------|---------------------------|-------|-------|--|----|------|----------|--|--|--|
| Benzene | 0.11 | 0.002 | mg/kg | 0.100 | ND | 108 | 71.8-126 | | | |
| Toluene | 0.10 | 0.002 | " | 0.100 | ND | 103 | 65.1-130 | | | |
| Ethylbenzene | 0.11 | 0.002 | " | 0.100 | ND | 106 | 62.2-130 | | | |
| m,p-Xylene | 0.22 | 0.004 | " | 0.200 | ND | 109 | 46.5-137 | | | |
| o-Xylene | 0.10 | 0.002 | " | 0.100 | ND | 102 | 54.2-134 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 65 | | ug/kg | 62.5 | | 104 | 70-130 | | | |
| Surrogate: Toluene-d8 | 62 | | " | 62.5 | | 99.8 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 63 | | " | 62.5 | | 100 | 70-130 | | | |

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 Arvada CO 80003

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #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 B6E0501 - EPA 5030 (soil)

| Matrix Spike (B6E0501-MS2) | Source: X605070-02 | | | Prepared: 05/05/2016 Analyzed: 05/05/2016 | | | | | | |
|-----------------------------------|---------------------------|-------|-------|--|----|------|----------|--|--|--|
| Benzene | 0.10 | 0.002 | mg/kg | 0.100 | ND | 96.4 | 71.8-126 | | | |
| Toluene | 0.09 | 0.002 | " | 0.100 | ND | 91.5 | 65.1-130 | | | |
| Ethylbenzene | 0.09 | 0.002 | " | 0.100 | ND | 91.6 | 62.2-130 | | | |
| m,p-Xylene | 0.19 | 0.004 | " | 0.200 | ND | 93.2 | 46.5-137 | | | |
| o-Xylene | 0.09 | 0.002 | " | 0.100 | ND | 89.4 | 54.2-134 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 68 | | ug/kg | 62.5 | | 109 | 70-130 | | | |
| Surrogate: Toluene-d8 | 62 | | " | 62.5 | | 99.7 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 63 | | " | 62.5 | | 100 | 70-130 | | | |

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 4600 West 60th Avenue
 Arvada CO 80003

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #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 B6E0501 - EPA 5030 (soil)

| Matrix Spike Dup (B6E0501-MSD1) | Source: X605070-01 | | | Prepared: 05/05/2016 Analyzed: 05/05/2016 | | | | | | |
|--|---------------------------|-------|-------|--|----|------|----------|------|------|-------|
| Benzene | 0.07 | 0.002 | mg/kg | 0.100 | ND | 65.3 | 71.8-126 | 48.9 | 11.3 | QM-07 |
| Toluene | 0.06 | 0.002 | " | 0.100 | ND | 59.5 | 65.1-130 | 53.7 | 15.4 | QM-07 |
| Ethylbenzene | 0.06 | 0.002 | " | 0.100 | ND | 58.4 | 62.2-130 | 57.8 | 19.6 | QM-07 |
| m,p-Xylene | 0.12 | 0.004 | " | 0.200 | ND | 59.2 | 46.5-137 | 58.9 | 19.2 | QM-07 |
| o-Xylene | 0.06 | 0.002 | " | 0.100 | ND | 57.7 | 54.2-134 | 55.7 | 17.9 | QM-07 |
| Surrogate: 1,2-Dichloroethane-d4 | 72 | | ug/kg | 62.5 | | 115 | 70-130 | | | QM-07 |
| Surrogate: Toluene-d8 | 62 | | " | 62.5 | | 98.4 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 64 | | " | 62.5 | | 102 | 70-130 | | | |

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #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 B6E0501 - EPA 5030 (soil)

| Matrix Spike Dup (B6E0501-MSD2) | Source: X605070-02 | | | Prepared: 05/05/2016 Analyzed: 05/05/2016 | | | | | | |
|--|---------------------------|-------|-------|--|----|------|----------|------|------|--|
| Benzene | 0.10 | 0.002 | mg/kg | 0.100 | ND | 105 | 71.8-126 | 8.48 | 11.3 | |
| Toluene | 0.10 | 0.002 | " | 0.100 | ND | 97.9 | 65.1-130 | 6.67 | 15.4 | |
| Ethylbenzene | 0.10 | 0.002 | " | 0.100 | ND | 102 | 62.2-130 | 11.1 | 19.6 | |
| m,p-Xylene | 0.21 | 0.004 | " | 0.200 | ND | 106 | 46.5-137 | 12.9 | 19.2 | |
| o-Xylene | 0.10 | 0.002 | " | 0.100 | ND | 99.3 | 54.2-134 | 10.4 | 17.9 | |
| Surrogate: 1,2-Dichloroethane-d4 | 74 | | ug/kg | 62.5 | | 118 | 70-130 | | | |
| Surrogate: Toluene-d8 | 62 | | " | 62.5 | | 99.0 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 66 | | " | 62.5 | | 105 | 70-130 | | | |

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #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 B6E0602 - EPA 5030 (soil)

Blank (B6E0602-BLK1)

Prepared: 05/06/2016 Analyzed: 05/06/2016

| | | | | | | | | | | |
|----------------------------------|----|-------|-------|------|--|------|--------|--|--|---|
| Gasoline Range Hydrocarbons | ND | 0.20 | 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 | | 108 | 70-130 | | | |
| Surrogate: Toluene-d8 | 60 | | " | 62.5 | | 95.5 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 60 | | " | 62.5 | | 96.3 | 70-130 | | | |

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 Arvada CO 80003

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #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 B6E0602 - EPA 5030 (soil)

LCS (B6E0602-BS1)

Prepared: 05/06/2016 Analyzed: 05/06/2016

| | | | | | | | | | | |
|----------------------------------|------|-------|-------|-------|--|------|----------|--|--|--|
| Benzene | 0.09 | 0.002 | mg/kg | 0.100 | | 91.0 | 77.1-124 | | | |
| Toluene | 0.10 | 0.002 | " | 0.100 | | 101 | 74.5-128 | | | |
| Ethylbenzene | 0.10 | 0.002 | " | 0.100 | | 97.0 | 66.4-127 | | | |
| m,p-Xylene | 0.21 | 0.004 | " | 0.200 | | 107 | 76.6-124 | | | |
| o-Xylene | 0.11 | 0.002 | " | 0.100 | | 105 | 76.6-124 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 68 | | ug/kg | 62.5 | | 109 | 70-130 | | | |
| Surrogate: Toluene-d8 | 60 | | " | 62.5 | | 96.7 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 61 | | " | 62.5 | | 97.2 | 70-130 | | | |

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 Arvada CO 80003

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #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 B6E0602 - EPA 5030 (soil)

| Matrix Spike (B6E0602-MS1) | Source: X605072-10 | | | Prepared: 05/06/2016 Analyzed: 05/06/2016 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|----|------|----------|--|--|--|
| Benzene | 0.10 | 0.002 | mg/kg | 0.100 | ND | 98.4 | 71.8-126 | | | |
| Toluene | 0.11 | 0.002 | " | 0.100 | ND | 108 | 65.1-130 | | | |
| Ethylbenzene | 0.11 | 0.002 | " | 0.100 | ND | 111 | 62.2-130 | | | |
| m,p-Xylene | 0.24 | 0.004 | " | 0.200 | ND | 122 | 46.5-137 | | | |
| o-Xylene | 0.12 | 0.002 | " | 0.100 | ND | 117 | 54.2-134 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 67 | | ug/kg | 62.5 | | 108 | 70-130 | | | |
| Surrogate: Toluene-d8 | 60 | | " | 62.5 | | 96.3 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 60 | | " | 62.5 | | 95.6 | 70-130 | | | |

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 Project: KMG - Four Way #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 B6E0602 - EPA 5030 (soil)

| Matrix Spike Dup (B6E0602-MSD1) | Source: X605072-10 | | | Prepared: 05/06/2016 Analyzed: 05/06/2016 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|----|------|----------|------|------|--|
| Benzene | 0.09 | 0.002 | mg/kg | 0.100 | ND | 90.9 | 71.8-126 | 7.95 | 11.3 | |
| Toluene | 0.10 | 0.002 | " | 0.100 | ND | 99.8 | 65.1-130 | 8.28 | 15.4 | |
| Ethylbenzene | 0.10 | 0.002 | " | 0.100 | ND | 99.2 | 62.2-130 | 11.2 | 19.6 | |
| m,p-Xylene | 0.22 | 0.004 | " | 0.200 | ND | 111 | 46.5-137 | 9.32 | 19.2 | |
| o-Xylene | 0.11 | 0.002 | " | 0.100 | ND | 110 | 54.2-134 | 6.02 | 17.9 | |
| Surrogate: 1,2-Dichloroethane-d4 | 69 | | ug/kg | 62.5 | | 110 | 70-130 | | | |
| Surrogate: Toluene-d8 | 61 | | " | 62.5 | | 96.8 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 60 | | " | 62.5 | | 96.1 | 70-130 | | | |

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 Arvada CO 80003

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #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 B6E0502 - EPA 3580

Blank (B6E0502-BLK1)

Prepared: 05/05/2016 Analyzed: 05/05/2016

| | | | | | | | | | | |
|-----------------------------------|----|-----|-------|------|--|------|--------|--|--|---|
| Diesel (C10-C28) | ND | 50 | mg/kg | | | | | | | U |
| Residual Range Organics (C28-C40) | ND | 200 | " | | | | | | | U |
| Surrogate: o-Terphenyl | 41 | | " | 50.0 | | 81.6 | 59-131 | | | |

Blank (B6E0502-BLK2)

Prepared: 05/05/2016 Analyzed: 05/05/2016

| | | | | | | | | | | |
|-----------------------------------|----|-----|-------|------|--|------|--------|--|--|---|
| Diesel (C10-C28) | ND | 50 | mg/kg | | | | | | | U |
| Residual Range Organics (C28-C40) | ND | 200 | " | | | | | | | U |
| Surrogate: o-Terphenyl | 40 | | " | 50.0 | | 79.5 | 59-131 | | | |

LCS (B6E0502-BS1)

Prepared: 05/05/2016 Analyzed: 05/05/2016

| | | | | | | | | | | |
|-----------------------------------|------|-----|-------|------|--|------|--------|--|--|--|
| Diesel (C10-C28) | 930 | 50 | mg/kg | 1000 | | 92.7 | 64-121 | | | |
| Residual Range Organics (C28-C40) | 1100 | 200 | " | 1000 | | 114 | 58-124 | | | |
| Surrogate: o-Terphenyl | 44 | | " | 50.0 | | 88.2 | 59-131 | | | |

LCS (B6E0502-BS2)

Prepared: 05/05/2016 Analyzed: 05/05/2016

| | | | | | | | | | | |
|-----------------------------------|------|-----|-------|------|--|------|--------|--|--|--|
| Diesel (C10-C28) | 960 | 50 | mg/kg | 1000 | | 95.6 | 64-121 | | | |
| Residual Range Organics (C28-C40) | 1100 | 200 | " | 1000 | | 114 | 58-124 | | | |
| Surrogate: o-Terphenyl | 49 | | " | 50.0 | | 98.4 | 59-131 | | | |

Matrix Spike (B6E0502-MS1)

Source: X605020-01

Prepared: 05/05/2016 Analyzed: 05/05/2016

| | | | | | | | | | | |
|-----------------------------------|------|-----|-------|------|----|------|--------|--|--|--|
| Diesel (C10-C28) | 900 | 50 | mg/kg | 1000 | ND | 89.7 | 53-125 | | | |
| Residual Range Organics (C28-C40) | 1100 | 200 | " | 1000 | 29 | 107 | 47-133 | | | |

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 Arvada CO 80003

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1

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 B6E0502 - EPA 3580 | | | | | | | | | | |
| Matrix Spike (B6E0502-MS1) | | | Source: X605020-01 | | Prepared: 05/05/2016 Analyzed: 05/05/2016 | | | | | |
| Surrogate: o-Terphenyl | 44 | | mg/kg | 50.0 | | 88.2 | 59-131 | | | |
| Matrix Spike (B6E0502-MS2) | | | Source: X605020-02 | | Prepared: 05/05/2016 Analyzed: 05/05/2016 | | | | | |
| Diesel (C10-C28) | 930 | 50 | mg/kg | 1000 | ND | 92.6 | 53-125 | | | |
| Residual Range Organics (C28-C40) | 1000 | 200 | " | 1000 | 24 | 98.9 | 47-133 | | | |
| Surrogate: o-Terphenyl | 43 | | " | 50.0 | | 85.4 | 59-131 | | | |
| Matrix Spike Dup (B6E0502-MSD1) | | | Source: X605020-01 | | Prepared: 05/05/2016 Analyzed: 05/05/2016 | | | | | |
| Diesel (C10-C28) | 810 | 50 | mg/kg | 1000 | ND | 80.8 | 53-125 | 10.4 | 20 | |
| Residual Range Organics (C28-C40) | 880 | 200 | " | 1000 | 29 | 85.4 | 47-133 | 22.6 | 20 | QR-02 |
| Surrogate: o-Terphenyl | 41 | | " | 50.0 | | 83.0 | 59-131 | | | |
| Matrix Spike Dup (B6E0502-MSD2) | | | Source: X605020-02 | | Prepared: 05/05/2016 Analyzed: 05/05/2016 | | | | | |
| Diesel (C10-C28) | 1100 | 50 | mg/kg | 1000 | ND | 114 | 53-125 | 20.4 | 20 | QR-02 |
| Residual Range Organics (C28-C40) | 1300 | 200 | " | 1000 | 24 | 132 | 47-133 | 28.8 | 20 | QR-02 |
| Surrogate: o-Terphenyl | 53 | | " | 50.0 | | 106 | 59-131 | | | |
| Batch B6E0603 - EPA 3580 | | | | | | | | | | |
| Blank (B6E0603-BLK1) | | | | | Prepared: 05/06/2016 Analyzed: 05/06/2016 | | | | | |
| Diesel (C10-C28) | ND | 50 | mg/kg | | | | | | | U |
| Residual Range Organics (C28-C40) | ND | 200 | " | | | | | | | U |
| Surrogate: o-Terphenyl | 39 | | " | 50.0 | | 77.9 | 59-131 | | | |
| LCS (B6E0603-BS1) | | | | | Prepared: 05/06/2016 Analyzed: 05/06/2016 | | | | | |
| Diesel (C10-C28) | 860 | 50 | mg/kg | 1000 | | 86.3 | 64-121 | | | |
| Residual Range Organics (C28-C40) | 930 | 200 | " | 1000 | | 92.7 | 58-124 | | | |
| Surrogate: o-Terphenyl | 41 | | " | 50.0 | | 82.3 | 59-131 | | | |

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #1

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 B6E0603 - EPA 3580

| Matrix Spike (B6E0603-MS1) | | Source: X605072-10 | | | Prepared: 05/06/2016 Analyzed: 05/06/2016 | | | | | |
|--|------|---------------------------|-------|------|---|------|--------|------|----|--|
| Diesel (C10-C28) | 970 | 50 | mg/kg | 1000 | ND | 97.3 | 53-125 | | | |
| Residual Range Organics (C28-C40) | 1100 | 200 | " | 1000 | 26 | 112 | 47-133 | | | |
| Surrogate: o-Terphenyl | 48 | | " | 50.0 | | 95.2 | 59-131 | | | |
| Matrix Spike Dup (B6E0603-MSD1) | | Source: X605072-10 | | | Prepared: 05/06/2016 Analyzed: 05/06/2016 | | | | | |
| Diesel (C10-C28) | 910 | 50 | mg/kg | 1000 | ND | 90.7 | 53-125 | 7.09 | 20 | |
| Residual Range Organics (C28-C40) | 1100 | 200 | " | 1000 | 26 | 103 | 47-133 | 8.40 | 20 | |
| Surrogate: o-Terphenyl | 44 | | " | 50.0 | | 88.1 | 59-131 | | | |

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.

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

John Cocroft
 Project Number: 014216073/WO# 2112791.PAB
 Project: KMG - Four Way #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 |
|---------------------------------|---------|---|----------|-------------|---|------|-------------|-------|-----------|-------|
| Batch B6E0504 - NO PREP | | | | | | | | | | |
| Duplicate (B6E0504-DUP1) | | Source: X605072-01 | | | Prepared: 05/05/2016 Analyzed: 05/05/2016 | | | | | |
| pH | 7.53 | | pH Units | | 7.50 | | | 0.399 | 25 | |
| Batch B6E0505 - NO PREP | | | | | | | | | | |
| Blank (B6E0505-BLK1) | | Prepared: 05/05/2016 Analyzed: 05/05/2016 | | | | | | | | |
| Specific Conductance (EC) | 0.00230 | | mmhos/cm | | | | | | | |
| Duplicate (B6E0505-DUP1) | | Source: X605072-01 | | | Prepared: 05/05/2016 Analyzed: 05/05/2016 | | | | | |
| Specific Conductance (EC) | 0.0670 | | mmhos/cm | | 0.0596 | | | 11.7 | 25 | |
| Batch B6E0604 - NO PREP | | | | | | | | | | |
| Duplicate (B6E0604-DUP1) | | Source: X605072-10 | | | Prepared: 05/06/2016 Analyzed: 05/06/2016 | | | | | |
| pH | 7.61 | | pH Units | | 8.17 | | | 7.10 | 25 | |
| Batch B6E0605 - NO PREP | | | | | | | | | | |
| Blank (B6E0605-BLK1) | | Prepared: 05/06/2016 Analyzed: 05/06/2016 | | | | | | | | |
| Specific Conductance (EC) | 0.00300 | | mmhos/cm | | | | | | | |
| Duplicate (B6E0605-DUP1) | | Source: X605072-10 | | | Prepared: 05/06/2016 Analyzed: 05/06/2016 | | | | | |
| Specific Conductance (EC) | 0.0601 | | mmhos/cm | | 0.0697 | | | 14.8 | 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.

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

John Cocroft
Project Number: 014216073/WO# 2112791.PAB
Project: KMG - Four Way #1

Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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.

June 08, 2016

LT Environmental, Inc.

John Cocroft

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Four Way #1

Project Number - 014216073

Attached are your analytical results for KMG - Four Way #1 received by Origins Laboratory, Inc. June 07, 2016. This project is associated with Origins project number X606083-01.

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

John Cocroft
Project Number: 014216073
Project: KMG - Four Way #1

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|--------------------|------------------|
| B03@25' | X606083-01 | Soil | June 7, 2016 16:30 | 06/07/2016 17:45 |

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.

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

John Cocroft
 Project Number: 014216073
 Project: KMG - Four Way #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X606083

Client: LT Environmental

Client Project ID: Four Way #1

Checklist Completed by: Joe Henderson

Shipped Via: HLB
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 6/7/16 1748

Airbill #: DA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 1 / 7.9 °C / _____ °C / _____ °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 ⁽¹⁾ ? | | X | | Sampled Sunday |
| 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 ⁽¹⁾ ? | X | | | |
| Was adequate sample volume provided ⁽¹⁾ ? | X | | | |
| Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ? | X | | | PH |
| Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ? | X | | | |
| Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ? | X | | | |
| Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ? | X | | | |
| Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ? | X | | | |
| For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative. | | | X | |
| Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH) | | | X | |
| Additional Comments (if any): | | | | |

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 6/18/16

Origins Laboratory, Inc.

[Signature: Jen Pellegrini]

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.

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

John Cocroft
 Project Number: 014216073
 Project: KMG - Four Way #1

B03@25'
6/7/2016 4:30:00PM

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

Origins Laboratory, Inc.
X606083-01 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B6F0705 | 06/07/2016 | 06/07/2016 | U |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

Surrogate: o-Terphenyl 79.7 % 59-131 " " "

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|--------------|-------|-------|---|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 0.200 | mg/kg | 1 | B6F0703 | 06/07/2016 | 06/07/2016 | U |
| Benzene | ND | 0.002 | " | " | " | " | " | U |
| Toluene | ND | 0.002 | " | " | " | " | " | U |
| Ethylbenzene | 0.004 | 0.002 | " | " | " | " | " | |
| Xylenes, total | 0.005 | 0.002 | " | " | " | " | " | |

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "
Surrogate: Toluene-d8 101 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|-------------|--|----------|---|---------|------------|------------|--|
| pH | 8.26 | | pH Units | 1 | B6F0707 | 06/07/2016 | 06/07/2016 | |
|----|-------------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|---------------|--|----------|---|---------|---|------------|--|
| Specific Conductance (EC) | 0.0528 | | mmhos/cm | " | B6F0708 | " | 06/07/2016 | |
|---------------------------|---------------|--|----------|---|---------|---|------------|--|

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.

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

John Cocroft
 Project Number: 014216073
 Project: KMG - Four Way #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 B6F0703 - EPA 5030 (soil)

Blank (B6F0703-BLK1)

Prepared: 06/07/2016 Analyzed: 06/07/2016

| | | | | | | | | | | |
|----------------------------------|----|-------|-------|------|--|------|--------|--|--|---|
| 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 | | 97.0 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 64 | | " | 62.5 | | 103 | 70-130 | | | |

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.

Jen Pellegrini For Noelle Doyle Mathis, President

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

John Cocroft
 Project Number: 014216073
 Project: KMG - Four Way #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 B6F0703 - EPA 5030 (soil)

LCS (B6F0703-BS1)

Prepared: 06/07/2016 Analyzed: 06/07/2016

| | | | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|--|-----|----------|--|--|--|
| Benzene | 0.118 | 0.002 | mg/kg | 0.100 | | 118 | 77.1-124 | | | |
| Toluene | 0.118 | 0.002 | " | 0.100 | | 118 | 74.5-128 | | | |
| Ethylbenzene | 0.111 | 0.002 | " | 0.100 | | 111 | 66.4-127 | | | |
| m,p-Xylene | 0.225 | 0.004 | " | 0.200 | | 112 | 76.6-124 | | | |
| o-Xylene | 0.112 | 0.002 | " | 0.100 | | 112 | 76.6-124 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 69 | | ug/kg | 62.5 | | 110 | 70-130 | | | |
| Surrogate: Toluene-d8 | 64 | | " | 62.5 | | 103 | 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: 014216073
 Project: KMG - Four Way #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 B6F0703 - EPA 5030 (soil)

| Matrix Spike (B6F0703-MS1) | Source: X606038-02 | | | Prepared: 06/07/2016 Analyzed: 06/07/2016 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|----|------|----------|--|--|--|
| Benzene | 0.118 | 0.002 | mg/kg | 0.100 | ND | 118 | 71.8-126 | | | |
| Toluene | 0.120 | 0.002 | " | 0.100 | ND | 120 | 65.1-130 | | | |
| Ethylbenzene | 0.114 | 0.002 | " | 0.100 | ND | 114 | 62.2-130 | | | |
| m,p-Xylene | 0.235 | 0.004 | " | 0.200 | ND | 118 | 46.5-137 | | | |
| o-Xylene | 0.133 | 0.002 | " | 0.100 | ND | 133 | 54.2-134 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 66 | | ug/kg | 62.5 | | 106 | 70-130 | | | |
| Surrogate: Toluene-d8 | 63 | | " | 62.5 | | 101 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 61 | | " | 62.5 | | 97.5 | 70-130 | | | |

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.

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

John Cocroft
 Project Number: 014216073
 Project: KMG - Four Way #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 B6F0703 - EPA 5030 (soil)

| Matrix Spike Dup (B6F0703-MSD1) | Source: X606038-02 | | | Prepared: 06/07/2016 Analyzed: 06/07/2016 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|----|------|----------|------|------|-------|
| Benzene | 0.115 | 0.002 | mg/kg | 0.100 | ND | 115 | 71.8-126 | 2.91 | 11.3 | |
| Toluene | 0.107 | 0.002 | " | 0.100 | ND | 107 | 65.1-130 | 11.6 | 15.4 | |
| Ethylbenzene | 0.087 | 0.002 | " | 0.100 | ND | 87.3 | 62.2-130 | 26.7 | 19.6 | QR-02 |
| m,p-Xylene | 0.175 | 0.004 | " | 0.200 | ND | 87.7 | 46.5-137 | 29.2 | 19.2 | QR-02 |
| o-Xylene | 0.101 | 0.002 | " | 0.100 | ND | 101 | 54.2-134 | 27.4 | 17.9 | QR-02 |
| Surrogate: 1,2-Dichloroethane-d4 | 68 | | ug/kg | 62.5 | | 108 | 70-130 | | | |
| Surrogate: Toluene-d8 | 64 | | " | 62.5 | | 102 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 61 | | " | 62.5 | | 97.9 | 70-130 | | | |

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.

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

John Cocroft
 Project Number: 014216073
 Project: KMG - Four Way #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 B6F0705 - EPA 3580

Blank (B6F0705-BLK1)

Prepared: 06/07/2016 Analyzed: 06/07/2016

| | | | | | | | | | | |
|-----------------------------------|----|------|-------|------|--|------|--------|--|--|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | | | | | | | U |
| Residual Range Organics (C28-C40) | ND | 200 | " | | | | | | | U |
| Surrogate: o-Terphenyl | 38 | | " | 50.0 | | 75.0 | 59-131 | | | |

LCS (B6F0705-BS1)

Prepared: 06/07/2016 Analyzed: 06/07/2016

| | | | | | | | | | | |
|-----------------------------------|-----|------|-------|------|--|------|--------|--|--|--|
| Diesel (C10-C28) | 952 | 50.0 | mg/kg | 1000 | | 95.2 | 64-121 | | | |
| Residual Range Organics (C28-C40) | 863 | 200 | " | 1000 | | 86.3 | 58-124 | | | |
| Surrogate: o-Terphenyl | 45 | | " | 50.0 | | 89.6 | 59-131 | | | |

Matrix Spike (B6F0705-MS1)

Source: X606069-01

Prepared: 06/07/2016 Analyzed: 06/07/2016

| | | | | | | | | | | |
|-----------------------------------|-----|------|-------|------|------|------|--------|--|--|--|
| Diesel (C10-C28) | 882 | 50.0 | mg/kg | 1000 | ND | 88.2 | 53-125 | | | |
| Residual Range Organics (C28-C40) | 761 | 200 | " | 1000 | 13.1 | 74.8 | 47-133 | | | |
| Surrogate: o-Terphenyl | 41 | | " | 50.0 | | 82.7 | 59-131 | | | |

Matrix Spike Dup (B6F0705-MSD1)

Source: X606069-01

Prepared: 06/07/2016 Analyzed: 06/07/2016

| | | | | | | | | | | |
|-----------------------------------|------|------|-------|------|------|------|--------|------|----|--|
| Diesel (C10-C28) | 1030 | 50.0 | mg/kg | 1000 | ND | 103 | 53-125 | 15.3 | 20 | |
| Residual Range Organics (C28-C40) | 885 | 200 | " | 1000 | 13.1 | 87.2 | 47-133 | 15.3 | 20 | |
| Surrogate: o-Terphenyl | 47 | | " | 50.0 | | 94.6 | 59-131 | | | |

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.

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

John Cocroft
 Project Number: 014216073
 Project: KMG - Four Way #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 |
|---------------------------------|---------|---|----------|-------------|---|------|-------------|------|-----------|-------|
| Batch B6F0707 - NO PREP | | | | | | | | | | |
| Duplicate (B6F0707-DUP1) | | Source: X606079-01 | | | Prepared: 06/07/2016 Analyzed: 06/07/2016 | | | | | |
| pH | 7.71 | | pH Units | | 8.03 | | | 4.07 | 25 | |
| Batch B6F0708 - NO PREP | | | | | | | | | | |
| Blank (B6F0708-BLK1) | | Prepared: 06/07/2016 Analyzed: 06/07/2016 | | | | | | | | |
| Specific Conductance (EC) | 0.00230 | | mmhos/cm | | | | | | | |
| Duplicate (B6F0708-DUP1) | | Source: X606079-01 | | | Prepared: 06/07/2016 Analyzed: 06/07/2016 | | | | | |
| Specific Conductance (EC) | 0.250 | | mmhos/cm | | 0.211 | | | 16.9 | 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.

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

John Cocroft
Project Number: 014216073
Project: KMG - Four Way #1

Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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.



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.

Jen Pellegrini For Noelle Doyle Mathis, President



July 11, 2016

LT Environmental, Inc.

John Cocroft

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Four Way #1

Project Number - 014216073/WO# 890537

Attached are your analytical results for KMG - Four Way #1 received by Origins Laboratory, Inc. June 08, 2016. This project is associated with Origins project number X606108-01.

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

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

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

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

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

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



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

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

John Cocroft
Project Number: 014216073/WO# 89053715
Project: KMG - Four Way #1

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|------------|---------------|--------|--------------------|------------------|
| TP04 @ 28' | X606108-01 | Soil | June 8, 2016 16:00 | 06/08/2016 17:15 |
| TP05 @ 30' | X606108-02 | Soil | June 8, 2016 16:10 | 06/08/2016 17:15 |
| N03 @ 22' | X606108-03 | Soil | June 8, 2016 13:40 | 06/08/2016 17:15 |
| S04 @ 22' | X606108-04 | Soil | June 8, 2016 13:55 | 06/08/2016 17:15 |

The following IDs were changed per the email from Mike Futaw on 07/11/16.

B04@28' to TP04@28'
B05@30' to TP05@30'

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.

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

John Cocroft
 Project Number: 014216073/WO# 89053715
 Project: KMG - Four Way #1

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

Sample Receipt Checklist

Origins Work Order: X606108 Client: LTE
 Client Project ID: Four Way #1
 Checklist Completed by: Jeff Smith Shipped Via: HD
 Date/time completed: 6/8/12 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 6.8 °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 ^{(1)?} | | 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 ^{(1)?} | X | | | |
| Was adequate sample volume provided ^{(1)?} | X | | | |
| Are short holding time analytes or samples with HTs due within 48 hours present ^{(1)?} | X | | | DU |
| Is a chain-of-custody (COC) present and filled out completely ^{(1)?} | X | | | |
| Does the COC agree with the number and type of sample bottles received ^{(1)?} | X | | | |
| Do the sample IDs on the bottle labels match the COC ^{(1)?} | X | | | |
| Is the COC properly relinquished by the client with date and time recorded ^{(1)?} | X | | | |
| For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative. | | | X | |
| Are samples preserved that require preservation and was it checked ^{(1)?} (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH) | | | X | |
| Additional Comments (if any): | | | | |

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 6/8/12

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216073/WO# 89053715
 Project: KMG - Four Way #1

TP04 @ 28'
6/8/2016 4:00:00PM

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

Origins Laboratory, Inc.
X606108-01 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|------------|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | 844 | 25.0 | mg/kg | 1 | B6F0802 | 06/08/2016 | 06/09/2016 | |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

| | | | | | | | | |
|--------------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: <i>o</i> -Terphenyl | 95.1 % | 59-131 | | | " | " | " | |
|--------------------------------|--------|--------|--|--|---|---|---|--|

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|--------------|-------|-------|-----|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | 819 | 50.0 | mg/kg | 250 | B6F0801 | 06/08/2016 | 06/08/2016 | |
| Benzene | 0.796 | 0.050 | " | 25 | " | " | 06/08/2016 | |
| Toluene | ND | 0.050 | " | " | " | " | " | U |
| Ethylbenzene | 7.52 | 0.050 | " | " | " | " | " | |
| Xylenes, total | 142 | 0.498 | " | 250 | " | " | 06/08/2016 | |

| | | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 99.9 % | 70-130 | | | " | " | " | |
| Surrogate: Toluene-d8 | 107 % | 70-130 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 99.2 % | 70-130 | | | " | " | " | |

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|-------------|--|----------|---|---------|------------|------------|--|
| pH | 7.94 | | pH Units | 1 | B6F0803 | 06/08/2016 | 06/08/2016 | |
|----|-------------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|--------------|--|----------|---|---------|---|------------|--|
| Specific Conductance (EC) | 0.188 | | mmhos/cm | " | B6F0804 | " | 06/08/2016 | |
|---------------------------|--------------|--|----------|---|---------|---|------------|--|

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216073/WO# 89053715
 Project: KMG - Four Way #1

TP05 @ 30'
6/8/2016 4:10:00PM

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

Origins Laboratory, Inc.
X606108-02 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|------------|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | 686 | 25.0 | mg/kg | 1 | B6F0802 | 06/08/2016 | 06/09/2016 | |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

Surrogate: *o*-Terphenyl 89.0 % 59-131 " " "

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|--------------|-------|-------|-----|---------|------------|------------|--|
| Gasoline Range Hydrocarbons | 1040 | 50.0 | mg/kg | 250 | B6F0801 | 06/08/2016 | 06/08/2016 | |
| Benzene | 1.68 | 0.050 | " | 25 | " | " | 06/08/2016 | |
| Toluene | 0.814 | 0.050 | " | " | " | " | " | |
| Ethylbenzene | 8.53 | 0.050 | " | " | " | " | " | |
| Xylenes, total | 148 | 0.498 | " | 250 | " | " | 06/08/2016 | |

Surrogate: 1,2-Dichloroethane-d4 97.7 % 70-130 " " "

Surrogate: Toluene-d8 109 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 96.9 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|-------------|--|----------|---|---------|------------|------------|--|
| pH | 7.90 | | pH Units | 1 | B6F0803 | 06/08/2016 | 06/08/2016 | |
|----|-------------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|--------------|--|----------|---|---------|---|------------|--|
| Specific Conductance (EC) | 0.151 | | mmhos/cm | " | B6F0804 | " | 06/08/2016 | |
|---------------------------|--------------|--|----------|---|---------|---|------------|--|

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216073/WO# 89053715
 Project: KMG - Four Way #1

N03 @ 22'
6/8/2016 1:40:00PM

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

Origins Laboratory, Inc.
X606108-03 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B6F0802 | 06/08/2016 | 06/09/2016 | U |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

Surrogate: o-Terphenyl 83.1 % 59-131 " " "

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|----|-------|-------|----|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 5.00 | mg/kg | 25 | B6F0801 | 06/08/2016 | 06/08/2016 | 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 98.6 % 70-130 " " "
Surrogate: Toluene-d8 102 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 7.50 | | pH Units | 1 | B6F0803 | 06/08/2016 | 06/08/2016 | |
|----|------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|-------|--|----------|---|---------|---|------------|--|
| Specific Conductance (EC) | 0.110 | | mmhos/cm | " | B6F0804 | " | 06/08/2016 | |
|---------------------------|-------|--|----------|---|---------|---|------------|--|

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216073/WO# 89053715
 Project: KMG - Four Way #1

S04 @ 22'
6/8/2016 1:55:00PM

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

Origins Laboratory, Inc.
X606108-04 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B6F0802 | 06/08/2016 | 06/09/2016 | U |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

Surrogate: o-Terphenyl 78.9 % 59-131 " " "

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|----|-------|-------|----|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 5.00 | mg/kg | 25 | B6F0801 | 06/08/2016 | 06/08/2016 | 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 95.0 % 70-130 " " "
Surrogate: Toluene-d8 103 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 7.80 | | pH Units | 1 | B6F0803 | 06/08/2016 | 06/08/2016 | |
|----|------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|-------|--|----------|---|---------|---|------------|--|
| Specific Conductance (EC) | 0.103 | | mmhos/cm | " | B6F0804 | " | 06/08/2016 | |
|---------------------------|-------|--|----------|---|---------|---|------------|--|

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216073/WO# 89053715
 Project: KMG - Four Way #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 B6F0801 - EPA 5030 (soil)

Blank (B6F0801-BLK1)

Prepared: 06/08/2016 Analyzed: 06/08/2016

| | | | | | | | | | | |
|----------------------------------|----|-------|-------|------|--|------|--------|--|--|---|
| 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 | 66 | | ug/kg | 62.5 | | 106 | 70-130 | | | |
| Surrogate: Toluene-d8 | 61 | | " | 62.5 | | 97.7 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 63 | | " | 62.5 | | 101 | 70-130 | | | |

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216073/WO# 89053715
 Project: KMG - Four Way #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 B6F0801 - EPA 5030 (soil)

Blank (B6F0801-BLK2)

Prepared: 06/08/2016 Analyzed: 06/08/2016

| | | | | | | | | | | |
|----------------------------------|----|-------|-------|------|--|-----|--------|--|--|---|
| 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 | 64 | | ug/kg | 62.5 | | 102 | 70-130 | | | |
| Surrogate: Toluene-d8 | 63 | | " | 62.5 | | 101 | 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: 014216073/WO# 89053715
 Project: KMG - Four Way #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 B6F0801 - EPA 5030 (soil)

LCS (B6F0801-BS1)

Prepared: 06/08/2016 Analyzed: 06/08/2016

| | | | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|--|------|----------|--|--|--|
| Benzene | 0.111 | 0.002 | mg/kg | 0.100 | | 111 | 77.1-124 | | | |
| Toluene | 0.111 | 0.002 | " | 0.100 | | 111 | 74.5-128 | | | |
| Ethylbenzene | 0.109 | 0.002 | " | 0.100 | | 109 | 66.4-127 | | | |
| m,p-Xylene | 0.215 | 0.004 | " | 0.200 | | 107 | 76.6-124 | | | |
| o-Xylene | 0.106 | 0.002 | " | 0.100 | | 106 | 76.6-124 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 66 | | ug/kg | 62.5 | | 105 | 70-130 | | | |
| Surrogate: Toluene-d8 | 62 | | " | 62.5 | | 99.5 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 63 | | " | 62.5 | | 101 | 70-130 | | | |

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216073/WO# 89053715
 Project: KMG - Four Way #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 B6F0801 - EPA 5030 (soil)

LCS (B6F0801-BS2)

Prepared: 06/08/2016 Analyzed: 06/08/2016

| | | | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|--|------|----------|--|--|--|
| Benzene | 0.106 | 0.002 | mg/kg | 0.100 | | 106 | 77.1-124 | | | |
| Toluene | 0.109 | 0.002 | " | 0.100 | | 109 | 74.5-128 | | | |
| Ethylbenzene | 0.110 | 0.002 | " | 0.100 | | 110 | 66.4-127 | | | |
| m,p-Xylene | 0.222 | 0.004 | " | 0.200 | | 111 | 76.6-124 | | | |
| o-Xylene | 0.107 | 0.002 | " | 0.100 | | 107 | 76.6-124 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 66 | | ug/kg | 62.5 | | 106 | 70-130 | | | |
| Surrogate: Toluene-d8 | 63 | | " | 62.5 | | 101 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 62 | | " | 62.5 | | 99.1 | 70-130 | | | |

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216073/WO# 89053715
 Project: KMG - Four Way #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 B6F0801 - EPA 5030 (soil)

| Matrix Spike (B6F0801-MS1) | Source: X606061-01 | | | Prepared: 06/08/2016 Analyzed: 06/08/2016 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|----|-----|----------|--|--|--|
| Benzene | 0.114 | 0.002 | mg/kg | 0.100 | ND | 114 | 71.8-126 | | | |
| Toluene | 0.115 | 0.002 | " | 0.100 | ND | 115 | 65.1-130 | | | |
| Ethylbenzene | 0.113 | 0.002 | " | 0.100 | ND | 113 | 62.2-130 | | | |
| m,p-Xylene | 0.225 | 0.004 | " | 0.200 | ND | 113 | 46.5-137 | | | |
| o-Xylene | 0.111 | 0.002 | " | 0.100 | ND | 111 | 54.2-134 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 65 | | ug/kg | 62.5 | | 105 | 70-130 | | | |
| Surrogate: Toluene-d8 | 63 | | " | 62.5 | | 101 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 63 | | " | 62.5 | | 101 | 70-130 | | | |

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216073/WO# 89053715
 Project: KMG - Four Way #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 B6F0801 - EPA 5030 (soil)

| Matrix Spike (B6F0801-MS2) | Source: X606105-09 | | | Prepared: 06/08/2016 Analyzed: 06/08/2016 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|----|------|----------|--|--|--|
| Benzene | 0.113 | 0.002 | mg/kg | 0.100 | ND | 113 | 71.8-126 | | | |
| Toluene | 0.112 | 0.002 | " | 0.100 | ND | 112 | 65.1-130 | | | |
| Ethylbenzene | 0.106 | 0.002 | " | 0.100 | ND | 106 | 62.2-130 | | | |
| m,p-Xylene | 0.220 | 0.004 | " | 0.200 | ND | 110 | 46.5-137 | | | |
| o-Xylene | 0.107 | 0.002 | " | 0.100 | ND | 107 | 54.2-134 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 69 | | ug/kg | 62.5 | | 110 | 70-130 | | | |
| Surrogate: Toluene-d8 | 63 | | " | 62.5 | | 100 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 60 | | " | 62.5 | | 96.2 | 70-130 | | | |

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216073/WO# 89053715
 Project: KMG - Four Way #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 B6F0801 - EPA 5030 (soil)

| Matrix Spike Dup (B6F0801-MSD1) | Source: X606061-01 | | | Prepared: 06/08/2016 Analyzed: 06/08/2016 | | | | | | |
|--|---------------------------|-------|-------|--|----|------|----------|------|------|--|
| Benzene | 0.108 | 0.002 | mg/kg | 0.100 | ND | 108 | 71.8-126 | 5.88 | 11.3 | |
| Toluene | 0.111 | 0.002 | " | 0.100 | ND | 111 | 65.1-130 | 3.51 | 15.4 | |
| Ethylbenzene | 0.107 | 0.002 | " | 0.100 | ND | 107 | 62.2-130 | 5.29 | 19.6 | |
| m,p-Xylene | 0.215 | 0.004 | " | 0.200 | ND | 107 | 46.5-137 | 4.70 | 19.2 | |
| o-Xylene | 0.106 | 0.002 | " | 0.100 | ND | 106 | 54.2-134 | 4.66 | 17.9 | |
| Surrogate: 1,2-Dichloroethane-d4 | 65 | | ug/kg | 62.5 | | 105 | 70-130 | | | |
| Surrogate: Toluene-d8 | 62 | | " | 62.5 | | 99.5 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 62 | | " | 62.5 | | 98.5 | 70-130 | | | |

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.

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

John Cocroft
 Project Number: 014216073/WO# 89053715
 Project: KMG - Four Way #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 B6F0801 - EPA 5030 (soil)

| Matrix Spike Dup (B6F0801-MSD2) | Source: X606105-09 | | | Prepared: 06/08/2016 Analyzed: 06/08/2016 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|----|------|----------|------|------|-------|
| Benzene | 0.099 | 0.002 | mg/kg | 0.100 | ND | 99.0 | 71.8-126 | 12.9 | 11.3 | QR-02 |
| Toluene | 0.101 | 0.002 | " | 0.100 | ND | 101 | 65.1-130 | 10.1 | 15.4 | |
| Ethylbenzene | 0.095 | 0.002 | " | 0.100 | ND | 95.0 | 62.2-130 | 11.3 | 19.6 | |
| m,p-Xylene | 0.191 | 0.004 | " | 0.200 | ND | 95.5 | 46.5-137 | 14.0 | 19.2 | |
| o-Xylene | 0.098 | 0.002 | " | 0.100 | ND | 98.0 | 54.2-134 | 8.84 | 17.9 | |
| Surrogate: 1,2-Dichloroethane-d4 | 71 | | ug/kg | 62.5 | | 114 | 70-130 | | | |
| Surrogate: Toluene-d8 | 64 | | " | 62.5 | | 102 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 63 | | " | 62.5 | | 100 | 70-130 | | | |

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216073/WO# 89053715
 Project: KMG - Four Way #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 B6F0802 - EPA 3580

Blank (B6F0802-BLK1)

Prepared: 06/08/2016 Analyzed: 06/08/2016

| | | | | | | | | | | |
|-----------------------------------|----|------|-------|------|--|------|--------|--|--|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | | | | | | | U |
| Residual Range Organics (C28-C40) | ND | 200 | " | | | | | | | U |
| Surrogate: o-Terphenyl | 48 | | " | 50.0 | | 96.3 | 59-131 | | | |

Blank (B6F0802-BLK2)

Prepared: 06/08/2016 Analyzed: 06/09/2016

| | | | | | | | | | | |
|-----------------------------------|----|------|-------|------|--|------|--------|--|--|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | | | | | | | U |
| Residual Range Organics (C28-C40) | ND | 200 | " | | | | | | | U |
| Surrogate: o-Terphenyl | 49 | | " | 50.0 | | 97.0 | 59-131 | | | |

LCS (B6F0802-BS1)

Prepared: 06/08/2016 Analyzed: 06/09/2016

| | | | | | | | | | | |
|-----------------------------------|------|------|-------|------|--|------|--------|--|--|--|
| Diesel (C10-C28) | 1110 | 50.0 | mg/kg | 1000 | | 111 | 64-121 | | | |
| Residual Range Organics (C28-C40) | 1010 | 200 | " | 1000 | | 101 | 58-124 | | | |
| Surrogate: o-Terphenyl | 49 | | " | 50.0 | | 98.2 | 59-131 | | | |

LCS (B6F0802-BS2)

Prepared: 06/08/2016 Analyzed: 06/09/2016

| | | | | | | | | | | |
|-----------------------------------|-----|------|-------|------|--|------|--------|--|--|--|
| Diesel (C10-C28) | 998 | 50.0 | mg/kg | 1000 | | 99.8 | 64-121 | | | |
| Residual Range Organics (C28-C40) | 922 | 200 | " | 1000 | | 92.2 | 58-124 | | | |
| Surrogate: o-Terphenyl | 45 | | " | 50.0 | | 90.3 | 59-131 | | | |

Matrix Spike (B6F0802-MS1)

Source: X606061-01

Prepared: 06/08/2016 Analyzed: 06/09/2016

| | | | | | | | | | | |
|-----------------------------------|------|------|-------|------|------|------|--------|--|--|--|
| Diesel (C10-C28) | 1070 | 50.0 | mg/kg | 1000 | ND | 107 | 53-125 | | | |
| Residual Range Organics (C28-C40) | 973 | 200 | " | 1000 | 17.1 | 95.6 | 47-133 | | | |

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216073/WO# 89053715
 Project: KMG - Four Way #1

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 B6F0802 - EPA 3580 | | | | | | | | | | |
| Matrix Spike (B6F0802-MS1) | | | Source: X606061-01 | | Prepared: 06/08/2016 Analyzed: 06/09/2016 | | | | | |
| Surrogate: o-Terphenyl | 48 | | mg/kg | 50.0 | | 95.7 | 59-131 | | | |
| Matrix Spike (B6F0802-MS2) | | | Source: X606105-09 | | Prepared: 06/08/2016 Analyzed: 06/09/2016 | | | | | |
| Diesel (C10-C28) | 951 | 50.0 | mg/kg | 1000 | ND | 95.1 | 53-125 | | | |
| Residual Range Organics (C28-C40) | 913 | 200 | " | 1000 | 20.6 | 89.2 | 47-133 | | | |
| Surrogate: o-Terphenyl | 44 | | " | 50.0 | | 88.0 | 59-131 | | | |
| Matrix Spike Dup (B6F0802-MSD1) | | | Source: X606061-01 | | Prepared: 06/08/2016 Analyzed: 06/09/2016 | | | | | |
| Diesel (C10-C28) | 1040 | 50.0 | mg/kg | 1000 | ND | 104 | 53-125 | 3.62 | 20 | |
| Residual Range Organics (C28-C40) | 964 | 200 | " | 1000 | 17.1 | 94.7 | 47-133 | 0.998 | 20 | |
| Surrogate: o-Terphenyl | 48 | | " | 50.0 | | 95.1 | 59-131 | | | |
| Matrix Spike Dup (B6F0802-MSD2) | | | Source: X606105-09 | | Prepared: 06/08/2016 Analyzed: 06/09/2016 | | | | | |
| Diesel (C10-C28) | 1010 | 50.0 | mg/kg | 1000 | ND | 101 | 53-125 | 6.29 | 20 | |
| Residual Range Organics (C28-C40) | 948 | 200 | " | 1000 | 20.6 | 92.7 | 47-133 | 3.87 | 20 | |
| Surrogate: o-Terphenyl | 47 | | " | 50.0 | | 93.1 | 59-131 | | | |

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216073/WO# 89053715
 Project: KMG - Four Way #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 |
|---------------------------------|---------|---|----------|-------------|---|------|-------------|-------|-----------|-------|
| Batch B6F0803 - NO PREP | | | | | | | | | | |
| Duplicate (B6F0803-DUP1) | | Source: X606106-01 | | | Prepared: 06/08/2016 Analyzed: 06/08/2016 | | | | | |
| pH | 7.28 | | pH Units | | 7.26 | | | 0.275 | 25 | |
| Batch B6F0804 - NO PREP | | | | | | | | | | |
| Blank (B6F0804-BLK1) | | Prepared: 06/08/2016 Analyzed: 06/08/2016 | | | | | | | | |
| Specific Conductance (EC) | 0.00250 | | mmhos/cm | | | | | | | |
| Duplicate (B6F0804-DUP1) | | Source: X606106-01 | | | Prepared: 06/08/2016 Analyzed: 06/08/2016 | | | | | |
| Specific Conductance (EC) | 0.210 | | mmhos/cm | | 0.207 | | | 1.44 | 25 | |

Origins Laboratory, Inc.



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

John Cocroft
Project Number: 014216073/WO# 89053715
Project: KMG - Four Way #1

Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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.



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.



July 11, 2016

LT Environmental, Inc.

John Cocroft

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Four Way #1

Project Number - 014216073/WO# 890537

Attached are your analytical results for KMG - Four Way #1 received by Origins Laboratory, Inc. June 09, 2016. This project is associated with Origins project number X606122-01.

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

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

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

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

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

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



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

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

John Cocroft
Project Number: 014216073/WO# 89053715
Project: KMG - Four Way #1

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|------------|---------------|--------|--------------------|------------------|
| TP06 @ 35' | X606122-01 | Soil | June 9, 2016 10:00 | 06/09/2016 17:00 |
| TP07 @ 30' | X606122-02 | Soil | June 9, 2016 14:50 | 06/09/2016 17:00 |
| TP08 @ 35' | X606122-03 | Soil | June 9, 2016 14:55 | 06/09/2016 17:00 |
| TP09 @ 30' | X606122-04 | Soil | June 9, 2016 15:10 | 06/09/2016 17:00 |
| TP10 @ 35' | X606122-05 | Soil | June 9, 2016 15:20 | 06/09/2016 17:00 |

The following IDs were changed per the email from Mike Furtaw on 07/11/16.

B06@35' to TP06@35'
B07@30' to TP07@30'
B08@35' to TP08@35'
B09@30' to TP09@30'
B10@35' to TP10@35'

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.

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

John Cocroft
 Project Number: 014216073/WO# 89053715
 Project: KMG - Four Way #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X606122

Client: LTE

Client Project ID: Four Way #1

Checklist Completed by: Jef Smith

Shipped Via: HZD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 6/9/16

Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 1 14.6 °C 1 °C 1 °C (Describe)

Thermometer ID: 7003

| Requirement Description | Yes | No | N/A | Comments (if any) |
|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Is there ice present (document if blue ice is used) | <input checked="" type="checkbox"/> | | | |
| Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact) | | <input checked="" type="checkbox"/> | | |
| Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact) | | <input checked="" type="checkbox"/> | | |
| Were all samples received intact ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Was adequate sample volume provided ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | PH |
| Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative. | | | <input checked="" type="checkbox"/> | |
| Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH) | | | <input checked="" type="checkbox"/> | |
| Additional Comments (if any): | | | | |

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

Jef Smith
 Reviewed by (Project Manager)

6/9/16
 Date/Time Reviewed

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.

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

John Cocroft
 Project Number: 014216073/WO# 89053715
 Project: KMG - Four Way #1

TP06 @ 35'
6/9/2016 10:00:00AM

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

Origins Laboratory, Inc.
X606122-01 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|------|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | 4810 | 25.0 | mg/kg | 1 | B6F0905 | 06/09/2016 | 06/09/2016 | |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

Surrogate: *o*-Terphenyl 108 % 59-131 " " "

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|------|-------|-------|------|---------|------------|------------|--|
| Gasoline Range Hydrocarbons | 3500 | 50.0 | mg/kg | 250 | B6F0903 | 06/09/2016 | 06/09/2016 | |
| Benzene | 5.84 | 0.498 | " | " | " | " | " | |
| Toluene | 210 | 4.98 | " | 2500 | " | " | 06/10/2016 | |
| Ethylbenzene | 32.6 | 0.498 | " | 250 | " | " | 06/09/2016 | |
| Xylenes, total | 920 | 4.98 | " | 2500 | " | " | 06/10/2016 | |

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " 06/09/2016

Surrogate: Toluene-d8 121 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 106 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 9.10 | | pH Units | 1 | B6F0906 | 06/09/2016 | 06/09/2016 | |
|----|------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|-------|--|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.221 | | mmhos/cm | " | B6F0907 | 06/09/2016 | 06/09/2016 | |
|---------------------------|-------|--|----------|---|---------|------------|------------|--|

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216073/WO# 89053715
 Project: KMG - Four Way #1

TP07 @ 30'
6/9/2016 2:50:00PM

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

Origins Laboratory, Inc.
X606122-02 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|------|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | 7220 | 25.0 | mg/kg | 1 | B6F0905 | 06/09/2016 | 06/09/2016 | |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

Surrogate: *o*-Terphenyl 125 % 59-131 " " "

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|------|-------|-------|------|---------|------------|------------|--|
| Gasoline Range Hydrocarbons | 9340 | 500 | mg/kg | 2500 | B6F0903 | 06/09/2016 | 06/10/2016 | |
| Benzene | 12.5 | 0.498 | " | 250 | " | " | 06/09/2016 | |
| Toluene | 272 | 4.98 | " | 2500 | " | " | 06/10/2016 | |
| Ethylbenzene | 70.9 | 0.498 | " | 250 | " | " | 06/09/2016 | |
| Xylenes, total | 2250 | 4.98 | " | 2500 | " | " | 06/10/2016 | |

Surrogate: 1,2-Dichloroethane-d4 94.6 % 70-130 " " "

Surrogate: Toluene-d8 102 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.67 | | pH Units | 1 | B6F0906 | 06/09/2016 | 06/09/2016 | |
|----|------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|-------|--|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.609 | | mmhos/cm | " | B6F0907 | 06/09/2016 | 06/09/2016 | |
|---------------------------|-------|--|----------|---|---------|------------|------------|--|

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216073/WO# 89053715
 Project: KMG - Four Way #1

TP08 @ 35'
6/9/2016 2:55:00PM

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

Origins Laboratory, Inc.
X606122-03 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|------|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | 3440 | 25.0 | mg/kg | 1 | B6F0905 | 06/09/2016 | 06/09/2016 | |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

| | | | | | | | | |
|------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 98.9 % | 59-131 | | | " | " | " | |
|------------------------|--------|--------|--|--|---|---|---|--|

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|------|-------|-------|-----|---------|------------|------------|--|
| Gasoline Range Hydrocarbons | 2240 | 50.0 | mg/kg | 250 | B6F0903 | 06/09/2016 | 06/09/2016 | |
| Benzene | 2.14 | 0.050 | " | 25 | " | " | 06/09/2016 | |
| Toluene | 75.9 | 0.498 | " | 250 | " | " | 06/09/2016 | |
| Ethylbenzene | 18.7 | 0.498 | " | " | " | " | " | |
| Xylenes, total | 271 | 0.498 | " | " | " | " | " | |

| | | | | | | | | |
|----------------------------------|-------|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 101 % | 70-130 | | | " | " | " | |
| Surrogate: Toluene-d8 | 112 % | 70-130 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 101 % | 70-130 | | | " | " | " | |

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 8.54 | | pH Units | 1 | B6F0906 | 06/09/2016 | 06/09/2016 | |
|----|------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|-------|--|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.552 | | mmhos/cm | " | B6F0907 | 06/09/2016 | 06/09/2016 | |
|---------------------------|-------|--|----------|---|---------|------------|------------|--|

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.

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

John Cocroft
 Project Number: 014216073/WO# 89053715
 Project: KMG - Four Way #1

TP09 @ 30'
6/9/2016 3:10:00PM

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

Origins Laboratory, Inc.
X606122-04 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B6F0905 | 06/09/2016 | 06/09/2016 | U |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

Surrogate: o-Terphenyl 86.1 % 59-131 " " "

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|--------------|-------|-------|----|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | 5.23 | 5.00 | mg/kg | 25 | B6F0903 | 06/09/2016 | 06/09/2016 | |
| Benzene | ND | 0.050 | " | " | " | " | " | U |
| Toluene | ND | 0.050 | " | " | " | " | " | U |
| Ethylbenzene | 0.072 | 0.050 | " | " | " | " | " | |
| Xylenes, total | 0.117 | 0.050 | " | " | " | " | " | |

Surrogate: 1,2-Dichloroethane-d4 99.1 % 70-130 " " "
Surrogate: Toluene-d8 101 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 107 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|-------------|--|----------|---|---------|------------|------------|--|
| pH | 8.28 | | pH Units | 1 | B6F0906 | 06/09/2016 | 06/09/2016 | |
|----|-------------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|--------------|--|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.195 | | mmhos/cm | " | B6F0907 | 06/09/2016 | 06/09/2016 | |
|---------------------------|--------------|--|----------|---|---------|------------|------------|--|

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

John Cocroft
 Project Number: 014216073/WO# 89053715
 Project: KMG - Four Way #1

TP10 @ 35'
6/9/2016 3:20:00PM

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

Origins Laboratory, Inc.
X606122-05 (Soil)

DRO/RRO by EPA8015C

| | | | | | | | | |
|-----------------------------------|-----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | 353 | 25.0 | mg/kg | 1 | B6F0905 | 06/09/2016 | 06/09/2016 | |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | U |

Surrogate: *o*-Terphenyl 81.7 % 59-131 " " "

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|-------|-------|-------|-----|---------|------------|------------|--|
| Gasoline Range Hydrocarbons | 239 | 5.00 | mg/kg | 25 | B6F0903 | 06/09/2016 | 06/09/2016 | |
| Benzene | 0.050 | 0.050 | " | " | " | " | " | |
| Toluene | 0.470 | 0.050 | " | " | " | " | " | |
| Ethylbenzene | 1.56 | 0.050 | " | " | " | " | " | |
| Xylenes, total | 38.9 | 0.498 | " | 250 | " | " | 06/09/2016 | |

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " 06/09/2016

Surrogate: Toluene-d8 108 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 112 % 70-130 " " "

pH in Soil by EPA 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|--|
| pH | 7.95 | | pH Units | 1 | B6F0906 | 06/09/2016 | 06/09/2016 | |
|----|------|--|----------|---|---------|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|-------|--|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.426 | | mmhos/cm | " | B6F0907 | 06/09/2016 | 06/09/2016 | |
|---------------------------|-------|--|----------|---|---------|------------|------------|--|

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

John Cocroft
 Project Number: 014216073/WO# 89053715
 Project: KMG - Four Way #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 B6F0903 - EPA 5030 (soil) | | | | | | | | | | |
| Blank (B6F0903-BLK1) | | | | | | | | | | |
| | | | | | Prepared: 06/09/2016 Analyzed: 06/09/2016 | | | | | |
| 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 | 61 | | ug/kg | 62.5 | | 98.4 | 70-130 | | | |
| Surrogate: Toluene-d8 | 63 | | " | 62.5 | | 101 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 65 | | " | 62.5 | | 104 | 70-130 | | | |

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216073/WO# 89053715
 Project: KMG - Four Way #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 B6F0903 - EPA 5030 (soil) | | | | | | | | | | |
| Blank (B6F0903-BLK2) | | | | | | | | | | |
| | | | | | Prepared: 06/09/2016 Analyzed: 06/09/2016 | | | | | |
| 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 | 64 | | " | 62.5 | | 102 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 62 | | " | 62.5 | | 99.2 | 70-130 | | | |

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

John Cocroft
 Project Number: 014216073/WO# 89053715
 Project: KMG - Four Way #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 B6F0903 - EPA 5030 (soil)

LCS (B6F0903-BS1)

Prepared: 06/09/2016 Analyzed: 06/09/2016

| | | | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|--|-----|----------|--|--|--|
| Benzene | 0.102 | 0.002 | mg/kg | 0.100 | | 102 | 77.1-124 | | | |
| Toluene | 0.106 | 0.002 | " | 0.100 | | 106 | 74.5-128 | | | |
| Ethylbenzene | 0.110 | 0.002 | " | 0.100 | | 110 | 66.4-127 | | | |
| m,p-Xylene | 0.220 | 0.004 | " | 0.200 | | 110 | 76.6-124 | | | |
| o-Xylene | 0.108 | 0.002 | " | 0.100 | | 108 | 76.6-124 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 63 | | ug/kg | 62.5 | | 101 | 70-130 | | | |
| Surrogate: Toluene-d8 | 64 | | " | 62.5 | | 102 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 64 | | " | 62.5 | | 102 | 70-130 | | | |

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

John Cocroft
 Project Number: 014216073/WO# 89053715
 Project: KMG - Four Way #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 B6F0903 - EPA 5030 (soil)

LCS (B6F0903-BS2)

Prepared: 06/09/2016 Analyzed: 06/09/2016

| | | | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|--|------|----------|--|--|--|
| Benzene | 0.085 | 0.002 | mg/kg | 0.100 | | 84.9 | 77.1-124 | | | |
| Toluene | 0.086 | 0.002 | " | 0.100 | | 86.4 | 74.5-128 | | | |
| Ethylbenzene | 0.087 | 0.002 | " | 0.100 | | 87.4 | 66.4-127 | | | |
| m,p-Xylene | 0.176 | 0.004 | " | 0.200 | | 87.8 | 76.6-124 | | | |
| o-Xylene | 0.085 | 0.002 | " | 0.100 | | 85.5 | 76.6-124 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 70 | | ug/kg | 62.5 | | 112 | 70-130 | | | |
| Surrogate: Toluene-d8 | 64 | | " | 62.5 | | 102 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 61 | | " | 62.5 | | 97.8 | 70-130 | | | |

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

John Cocroft
 Project Number: 014216073/WO# 89053715
 Project: KMG - Four Way #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 B6F0903 - EPA 5030 (soil)

| Matrix Spike (B6F0903-MS1) | Source: X606098-01 | | | Prepared: 06/09/2016 Analyzed: 06/09/2016 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|----|------|----------|--|--|--|
| Benzene | 0.099 | 0.002 | mg/kg | 0.100 | ND | 98.7 | 71.8-126 | | | |
| Toluene | 0.101 | 0.002 | " | 0.100 | ND | 101 | 65.1-130 | | | |
| Ethylbenzene | 0.102 | 0.002 | " | 0.100 | ND | 102 | 62.2-130 | | | |
| m,p-Xylene | 0.208 | 0.004 | " | 0.200 | ND | 104 | 46.5-137 | | | |
| o-Xylene | 0.100 | 0.002 | " | 0.100 | ND | 99.6 | 54.2-134 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 70 | | ug/kg | 62.5 | | 111 | 70-130 | | | |
| Surrogate: Toluene-d8 | 63 | | " | 62.5 | | 101 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 60 | | " | 62.5 | | 96.1 | 70-130 | | | |

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

John Cocroft
 Project Number: 014216073/WO# 89053715
 Project: KMG - Four Way #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 B6F0903 - EPA 5030 (soil)

| Matrix Spike (B6F0903-MS2) | Source: X606118-02 | | | Prepared: 06/09/2016 Analyzed: 06/09/2016 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|--------|------|----------|--|--|--|
| Benzene | 0.098 | 0.002 | mg/kg | 0.100 | 0.0009 | 96.8 | 71.8-126 | | | |
| Toluene | 0.096 | 0.002 | " | 0.100 | 0.001 | 94.6 | 65.1-130 | | | |
| Ethylbenzene | 0.099 | 0.002 | " | 0.100 | ND | 99.1 | 62.2-130 | | | |
| m,p-Xylene | 0.201 | 0.004 | " | 0.200 | ND | 100 | 46.5-137 | | | |
| o-Xylene | 0.098 | 0.002 | " | 0.100 | ND | 98.1 | 54.2-134 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 71 | | ug/kg | 62.5 | | 113 | 70-130 | | | |
| Surrogate: Toluene-d8 | 62 | | " | 62.5 | | 99.6 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 64 | | " | 62.5 | | 102 | 70-130 | | | |

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

John Cocroft
 Project Number: 014216073/WO# 89053715
 Project: KMG - Four Way #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 B6F0903 - EPA 5030 (soil)

| Matrix Spike Dup (B6F0903-MSD1) | Source: X606098-01 | | | Prepared: 06/09/2016 Analyzed: 06/09/2016 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|----|------|----------|------|------|--|
| Benzene | 0.093 | 0.002 | mg/kg | 0.100 | ND | 93.3 | 71.8-126 | 5.60 | 11.3 | |
| Toluene | 0.094 | 0.002 | " | 0.100 | ND | 94.2 | 65.1-130 | 7.01 | 15.4 | |
| Ethylbenzene | 0.095 | 0.002 | " | 0.100 | ND | 94.7 | 62.2-130 | 7.26 | 19.6 | |
| m,p-Xylene | 0.191 | 0.004 | " | 0.200 | ND | 95.6 | 46.5-137 | 8.35 | 19.2 | |
| o-Xylene | 0.094 | 0.002 | " | 0.100 | ND | 93.6 | 54.2-134 | 6.13 | 17.9 | |
| Surrogate: 1,2-Dichloroethane-d4 | 70 | | ug/kg | 62.5 | | 111 | 70-130 | | | |
| Surrogate: Toluene-d8 | 63 | | " | 62.5 | | 101 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 61 | | " | 62.5 | | 97.2 | 70-130 | | | |

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

John Cocroft
 Project Number: 014216073/WO# 89053715
 Project: KMG - Four Way #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 B6F0903 - EPA 5030 (soil)

| Matrix Spike Dup (B6F0903-MSD2) | Source: X606118-02 | | | Prepared: 06/09/2016 Analyzed: 06/09/2016 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|--------|------|----------|-------|------|--|
| Benzene | 0.098 | 0.002 | mg/kg | 0.100 | 0.0009 | 97.1 | 71.8-126 | 0.286 | 11.3 | |
| Toluene | 0.096 | 0.002 | " | 0.100 | 0.001 | 95.2 | 65.1-130 | 0.604 | 15.4 | |
| Ethylbenzene | 0.099 | 0.002 | " | 0.100 | ND | 99.0 | 62.2-130 | 0.121 | 19.6 | |
| m,p-Xylene | 0.203 | 0.004 | " | 0.200 | ND | 102 | 46.5-137 | 1.07 | 19.2 | |
| o-Xylene | 0.101 | 0.002 | " | 0.100 | ND | 101 | 54.2-134 | 2.50 | 17.9 | |
| Surrogate: 1,2-Dichloroethane-d4 | 72 | | ug/kg | 62.5 | | 115 | 70-130 | | | |
| Surrogate: Toluene-d8 | 62 | | " | 62.5 | | 100 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 65 | | " | 62.5 | | 104 | 70-130 | | | |

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

John Cocroft
 Project Number: 014216073/WO# 89053715
 Project: KMG - Four Way #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 B6F0905 - EPA 3580

Blank (B6F0905-BLK1)

Prepared: 06/09/2016 Analyzed: 06/09/2016

| | | | | | | | | | | |
|-----------------------------------|----|------|-------|------|--|------|--------|--|--|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | | | | | | | U |
| Residual Range Organics (C28-C40) | ND | 200 | " | | | | | | | U |
| Surrogate: o-Terphenyl | 35 | | " | 50.0 | | 70.4 | 59-131 | | | |

Blank (B6F0905-BLK2)

Prepared: 06/09/2016 Analyzed: 06/09/2016

| | | | | | | | | | | |
|-----------------------------------|----|------|-------|------|--|------|--------|--|--|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | | | | | | | U |
| Residual Range Organics (C28-C40) | ND | 200 | " | | | | | | | U |
| Surrogate: o-Terphenyl | 44 | | " | 50.0 | | 88.3 | 59-131 | | | |

LCS (B6F0905-BS1)

Prepared: 06/09/2016 Analyzed: 06/09/2016

| | | | | | | | | | | |
|-----------------------------------|-----|------|-------|------|--|------|--------|--|--|--|
| Diesel (C10-C28) | 925 | 50.0 | mg/kg | 1000 | | 92.5 | 64-121 | | | |
| Residual Range Organics (C28-C40) | 832 | 200 | " | 1000 | | 83.2 | 58-124 | | | |
| Surrogate: o-Terphenyl | 44 | | " | 50.0 | | 88.1 | 59-131 | | | |

LCS (B6F0905-BS2)

Prepared: 06/09/2016 Analyzed: 06/09/2016

| | | | | | | | | | | |
|-----------------------------------|-----|------|-------|------|--|------|--------|--|--|--|
| Diesel (C10-C28) | 884 | 50.0 | mg/kg | 1000 | | 88.4 | 64-121 | | | |
| Residual Range Organics (C28-C40) | 801 | 200 | " | 1000 | | 80.1 | 58-124 | | | |
| Surrogate: o-Terphenyl | 45 | | " | 50.0 | | 89.3 | 59-131 | | | |

Matrix Spike (B6F0905-MS1)

Source: X606098-01

Prepared: 06/09/2016 Analyzed: 06/09/2016

| | | | | | | | | | | |
|-----------------------------------|-----|------|-------|------|------|------|--------|--|--|--|
| Diesel (C10-C28) | 870 | 50.0 | mg/kg | 1000 | 29.3 | 84.1 | 53-125 | | | |
| Residual Range Organics (C28-C40) | 744 | 200 | " | 1000 | ND | 74.4 | 47-133 | | | |

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216073/WO# 89053715
 Project: KMG - Four Way #1

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 B6F0905 - EPA 3580 | | | | | | | | | | |
| Matrix Spike (B6F0905-MS1) | | Source: X606098-01 | | | Prepared: 06/09/2016 Analyzed: 06/09/2016 | | | | | |
| Surrogate: o-Terphenyl | 45 | | mg/kg | 50.0 | | 89.6 | 59-131 | | | |
| Matrix Spike (B6F0905-MS2) | | Source: X606098-02 | | | Prepared: 06/09/2016 Analyzed: 06/09/2016 | | | | | |
| Diesel (C10-C28) | 867 | 50.0 | mg/kg | 1000 | 27.0 | 84.0 | 53-125 | | | |
| Residual Range Organics (C28-C40) | 783 | 200 | " | 1000 | ND | 78.3 | 47-133 | | | |
| Surrogate: o-Terphenyl | 43 | | " | 50.0 | | 85.7 | 59-131 | | | |
| Matrix Spike Dup (B6F0905-MSD1) | | Source: X606098-01 | | | Prepared: 06/09/2016 Analyzed: 06/09/2016 | | | | | |
| Diesel (C10-C28) | 921 | 50.0 | mg/kg | 1000 | 29.3 | 89.2 | 53-125 | 5.88 | 20 | |
| Residual Range Organics (C28-C40) | 856 | 200 | " | 1000 | ND | 85.6 | 47-133 | 14.0 | 20 | |
| Surrogate: o-Terphenyl | 44 | | " | 50.0 | | 88.8 | 59-131 | | | |
| Matrix Spike Dup (B6F0905-MSD2) | | Source: X606098-02 | | | Prepared: 06/09/2016 Analyzed: 06/09/2016 | | | | | |
| Diesel (C10-C28) | 715 | 50.0 | mg/kg | 1000 | 27.0 | 68.8 | 53-125 | 19.9 | 20 | |
| Residual Range Organics (C28-C40) | 649 | 200 | " | 1000 | ND | 64.9 | 47-133 | 18.8 | 20 | |
| Surrogate: o-Terphenyl | 39 | | " | 50.0 | | 78.6 | 59-131 | | | |

Origins Laboratory, Inc.



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

John Cocroft
 Project Number: 014216073/WO# 89053715
 Project: KMG - Four Way #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 |
|---------------------------------|---------|---|----------|-------------|---|------|-------------|-------|-----------|-------|
| Batch B6F0906 - NO PREP | | | | | | | | | | |
| Duplicate (B6F0906-DUP1) | | Source: X606086-01 | | | Prepared: 06/09/2016 Analyzed: 06/09/2016 | | | | | |
| pH | 8.13 | | pH Units | | 8.16 | | | 0.368 | 25 | |
| Duplicate (B6F0906-DUP2) | | Source: X606086-02 | | | Prepared: 06/09/2016 Analyzed: 06/09/2016 | | | | | |
| pH | 7.48 | | pH Units | | 7.42 | | | 0.805 | 25 | |
| Batch B6F0907 - NO PREP | | | | | | | | | | |
| Blank (B6F0907-BLK1) | | Prepared: 06/09/2016 Analyzed: 06/09/2016 | | | | | | | | |
| Specific Conductance (EC) | 0.00310 | | mmhos/cm | | | | | | | |
| Blank (B6F0907-BLK2) | | Prepared: 06/09/2016 Analyzed: 06/09/2016 | | | | | | | | |
| Specific Conductance (EC) | 0.00260 | | mmhos/cm | | | | | | | |
| Duplicate (B6F0907-DUP1) | | Source: X606086-01 | | | Prepared: 06/09/2016 Analyzed: 06/09/2016 | | | | | |
| Specific Conductance (EC) | 0.764 | | mmhos/cm | | 0.769 | | | 0.652 | 25 | |
| Duplicate (B6F0907-DUP2) | | Source: X606086-02 | | | Prepared: 06/09/2016 Analyzed: 06/09/2016 | | | | | |
| Specific Conductance (EC) | 0.744 | | mmhos/cm | | 0.736 | | | 1.08 | 25 | |

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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.

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

John Cocroft
Project Number: 014216073/WO# 89053715
Project: KMG - Four Way #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.

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