



February 19, 2016

LT Environmental, Inc.

Justin Solomon

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - Spurling 35N-34Hz

Project Number - 014211290-

Attached are your analytical results for KMG - Spurling 35N-34Hz received by Origins Laboratory, Inc. February 12, 2016. This project is associated with Origins project number X602145-01.

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

Justin Solomon
Project Number: 014211290-
Project: KMG - Spurling 35N-34Hz

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Off S	X602145-01	Soil	February 10, 2016 11:00	02/12/2016 16:05
Off E	X602145-02	Soil	February 10, 2016 11:10	02/12/2016 16:05
Off N	X602145-03	Soil	February 10, 2016 11:20	02/12/2016 16:05
Off W	X602145-04	Soil	February 10, 2016 11:30	02/12/2016 16:05
Off Comp	X602145-05	Soil	February 10, 2016 11:40	02/12/2016 16:05
Pad Comp	X602145-06	Soil	February 10, 2016 11:50	02/12/2016 16:05

Origins Laboratory, Inc.



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

Justin Solomon
Project Number: 014211290-
Project: KMG - Spurling 35N-34Hz

ORIGINS

X002145

page 1 of 1

Client: LT Environmental Inc.
Address: 4600 W. 60th Ave Arvada CO 80002

Project Manager: Justin Solomon
Project Name: KMG - Spurling 35N-34Hz
Project Number: 014211290-
Samples Collected By: RZ
AT: Mike Dake 208 570 1461 208 5787 DAL 208 5756 DAL
208 5759 DAL 208 5788 DAL 208 5757 DAL

Telephone Number: 303.433.7988
Email Address: jsolomon@ltenv.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative	Matrix	Analysis	Sample Instructions
Off S	2/10/16	1100	1	X	Soil	Total Barium Total Arsenic PH, EC, SAR Gret 0260 T pH Do/Sec 2015 Other	1
Off E		1110	1	X	Groundwater		2
Off N		1120	1	X	Other		3
Off W		1130	1	X	Other		4
Off Comp		1140	2	X	Other		5
Pad Comp		1150	3	X	Other		6
							7
							8
							9
							10
Requested By: [Signature]	Date: 2/12/16	Time: 1500		Received By: [Signature]	Date: 2/12/16	Time: 1600	Turnaround Time: Same Day 34 hr 48 hr 72 hr Standard 60
Requested By: [Signature]	Date: 2/12/16	Time: 1605		Received By: [Signature]	Date: 2/12/16	Time: 1605	

Date Results Needed

Origins Laboratory, Inc.

Jefe Pellegrini

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

Justin Solomon
Project Number: 014211290-
Project: KMG - Spurling 35N-34Hz

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X1602145

Client: LTE

Client Project ID: KMG - Spurling 35N-34

Checklist Completed by: Jeff Smith

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

Date/time completed: 2/15/16

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 0.6 °C 1 / _____ °C 1 / _____ °C (Describe)

Thermometer ID: TOUR

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"/>			
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			PH
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.

Jeff Smith
Reviewed by (Project Manager)

2/15/16
Date/Time Reviewed

Origins Laboratory, Inc.

Jen Pellegrini

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Arvada CO 80003

Justin Solomon

Project Number: 014211290-

Project: KMG - Spurling 35N-34Hz

Off S

2/10/2016 11:00:00AM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

GEL Laboratories, LLC

X602145-01 (Soil)

Metals by SW846 3050B/6020A

Arsenic	3.72	1.12	mg/kg dry	2	1545428	02/16/2016	02/17/2016
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Origins Laboratory, Inc.



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4600 West 60th Avenue

Arvada CO 80003

Justin Solomon

Project Number: 014211290-

Project: KMG - Spurling 35N-34Hz

Off E

2/10/2016 11:10:00AM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

GEL Laboratories, LLC

X602145-02 (Soil)

Metals by SW846 3050B/6020A

Arsenic	4.86	1.12	mg/kg dry	2	1545428	02/16/2016	02/17/2016
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Origins Laboratory, Inc.



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LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

Justin Solomon

Project Number: 014211290-

Project: KMG - Spurling 35N-34Hz

Off N

2/10/2016 11:20:00AM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

GEL Laboratories, LLC

X602145-03 (Soil)

Metals by SW846 3050B/6020A

Arsenic	3.58	1.10	mg/kg dry	2	1545428	02/16/2016	02/17/2016
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Origins Laboratory, Inc.



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LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

Justin Solomon

Project Number: 014211290-

Project: KMG - Spurling 35N-34Hz

Off W

2/10/2016 11:30:00AM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

GEL Laboratories, LLC

X602145-04 (Soil)

Metals by SW846 3050B/6020A

Arsenic	4.15	1.14	mg/kg dry	2	1545428	02/16/2016	02/17/2016
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Origins Laboratory, Inc.



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4600 West 60th Avenue
Arvada CO 80003

Justin Solomon
Project Number: 014211290-
Project: KMG - Spurling 35N-34Hz

Off Comp**2/10/2016 11:40:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**AAL, Inc.
X602145-05 (Soil)****Metals by 6010**

Calcium	4.29		me/L	1	'[none]'	02/16/2016	02/18/2016
Magnesium	1.65		"	"	"	"	"
Sodium	14.08		"	"	"	"	"

Metals by SW846 3050B/6010C

Barium	113	0.589	mg/kg dry	1	1545704	02/17/2016	02/18/2016
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Metals by SW846 3050B/6020A

Arsenic	3.81	1.15	mg/kg dry	2	1545428	02/16/2016	02/17/2016
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pH in Soil by EPA 9045D

pH	8.26		pH Units	1	B6B1507	02/15/2016	02/16/2016
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SAR by 20B Saturated Paste

SAR	8.17			1	'[none]'	02/16/2016	02/18/2016
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0439		mmhos/cm	1	B6B1508	02/15/2016	02/16/2016
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Arvada CO 80003

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Project Number: 014211290-

Project: KMG - Spurling 35N-34Hz

Pad Comp

2/10/2016 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

X602145-06 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	B6B1510	02/15/2016	02/16/2016	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl 64.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6B1701	02/16/2016	02/16/2016	Ua
Benzene	ND	0.002	"	"	"	"	"	Ua
Toluene	ND	0.002	"	"	"	"	"	Ua
Ethylbenzene	ND	0.002	"	"	"	"	"	Ua
Xylenes, total	ND	0.002	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4 88.8 % 70-130 " " "

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

Surrogate: 4-Bromofluorobenzene 95.8 % 70-130 " " "

Metals by 6010

Calcium	2.05		me/L	1	'[none]'	02/16/2016	02/18/2016	
Magnesium	0.69		"	"	"	"	"	
Sodium	1.34		"	"	"	"	"	

Metals by SW846 3050B/6010C

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Project Number: 014211290-
Project: KMG - Spurling 35N-34Hz

Pad Comp**2/10/2016 11:50:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X602145-06 (Soil)**Metals by SW846 3050B/6010C**

Barium	2530	2.77	mg/kg dry	5	1545704	02/17/2016	02/18/2016
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Metals by SW846 3050B/6020A

Arsenic	3.53	1.05	mg/kg dry	2	1545428	02/16/2016	02/17/2016
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pH in Soil by EPA 9045D

pH	8.56		pH Units	1	B6B1507	02/15/2016	02/16/2016
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SAR by 20B Saturated Paste

SAR	1.14			1	'[none]'	02/16/2016	02/18/2016
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.213		mmhos/cm	1	B6B1508	02/15/2016	02/16/2016
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TCLP Metals by 1311/3010A/6010C

Arsenic	ND	0.300	mg/L	1	1545956	02/18/2016	02/18/2016	U
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Project Number: 014211290-
Project: KMG - Spurling 35N-34Hz

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 B6B1701 - EPA 5030 (soil)										
Blank (B6B1701-BLK1)					Prepared: 02/17/2016 Analyzed: 02/17/2016					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							Ua
Benzene	ND	0.002	"							Ua
Toluene	ND	0.002	"							Ua
Ethylbenzene	ND	0.002	"							Ua
Xylenes, total	ND	0.002	"							Ua
Surrogate: 1,2-Dichloroethane-d4	53.8		ug/kg	62.5		86.0	70-130			
Surrogate: Toluene-d8	61.7		"	62.5		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	57.6		"	62.5		92.2	70-130			

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Project: KMG - Spurling 35N-34Hz

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
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Batch B6B1701 - EPA 5030 (soil)

LCS (B6B1701-BS1)

Prepared: 02/17/2016 Analyzed: 02/17/2016

Benzene	0.094	0.002	mg/kg	0.100		93.8	77.1-124			
Toluene	0.088	0.002	"	0.100		88.4	74.5-128			
Ethylbenzene	0.091	0.002	"	0.100		91.0	66.4-127			
m,p-Xylene	0.187	0.004	"	0.200		93.6	76.6-124			
o-Xylene	0.094	0.002	"	0.100		93.7	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	54.5		ug/kg	62.5		87.2	70-130			
Surrogate: Toluene-d8	60.2		"	62.5		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	63.3		"	62.5		101	70-130			

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Project: KMG - Spurling 35N-34Hz

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
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Batch B6B1701 - EPA 5030 (soil)

Matrix Spike (B6B1701-MS1)		Source: X602169-01			Prepared: 02/17/2016 Analyzed: 02/17/2016					
Benzene	0.092	0.002	mg/kg	0.100	ND	91.6	71.8-126			
Toluene	0.088	0.002	"	0.100	ND	88.0	65.1-130			
Ethylbenzene	0.084	0.002	"	0.100	ND	84.1	62.2-130			
m,p-Xylene	0.169	0.004	"	0.200	ND	84.6	46.5-137			
o-Xylene	0.084	0.002	"	0.100	0.0003	83.8	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	51.9		ug/kg	62.5		83.0	70-130			
Surrogate: Toluene-d8	58.6		"	62.5		93.7	70-130			
Surrogate: 4-Bromofluorobenzene	63.8		"	62.5		102	70-130			

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Project Number: 014211290-

Project: KMG - Spurling 35N-34Hz

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
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Batch B6B1701 - EPA 5030 (soil)

Matrix Spike Dup (B6B1701-MSD1)		Source: X602169-01			Prepared: 02/17/2016 Analyzed: 02/17/2016					
Benzene	0.088	0.002	mg/kg	0.100	ND	88.1	71.8-126	3.90	11.3	
Toluene	0.084	0.002	"	0.100	ND	84.0	65.1-130	4.65	15.4	
Ethylbenzene	0.082	0.002	"	0.100	ND	82.3	62.2-130	2.09	19.6	
m,p-Xylene	0.167	0.004	"	0.200	ND	83.6	46.5-137	1.27	19.2	
o-Xylene	0.082	0.002	"	0.100	0.0003	82.1	54.2-134	2.07	17.9	
Surrogate: 1,2-Dichloroethane-d4	52.7		ug/kg	62.5		84.4	70-130			
Surrogate: Toluene-d8	58.1		"	62.5		92.9	70-130			
Surrogate: 4-Bromofluorobenzene	61.9		"	62.5		99.0	70-130			

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Justin Solomon
Project Number: 014211290-
Project: KMG - Spurling 35N-34Hz

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
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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
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Batch B6B1510 - EPA 3580

Blank (B6B1510-BLK1)

Prepared: 02/15/2016 Analyzed: 02/16/2016

Diesel (C10-C28)	ND	50	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	200	"							Ua
Surrogate: o-Terphenyl	49		"	50.0		97.4	59-131			

LCS (B6B1510-BS1)

Prepared: 02/15/2016 Analyzed: 02/16/2016

Diesel (C10-C28)	1100	50	mg/kg	1000		113	64-121			
Residual Range Organics (C28-C40)	1100	200	"	1000		110	58-124			
Surrogate: o-Terphenyl	50		"	50.0		101	59-131			

Matrix Spike (B6B1510-MS1)

Source: X602145-06

Prepared: 02/15/2016 Analyzed: 02/16/2016

Diesel (C10-C28)	880	50	mg/kg	1000	ND	87.9	53-125			
Residual Range Organics (C28-C40)	860	200	"	1000	12	84.4	47-133			
Surrogate: o-Terphenyl	41		"	50.0		82.1	59-131			

Matrix Spike Dup (B6B1510-MSD1)

Source: X602145-06

Prepared: 02/15/2016 Analyzed: 02/16/2016

Diesel (C10-C28)	920	50	mg/kg	1000	ND	91.8	53-125	4.35	20	
Residual Range Organics (C28-C40)	880	200	"	1000	12	86.7	47-133	2.64	20	
Surrogate: o-Terphenyl	45		"	50.0		89.7	59-131			

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Project Number: 014211290-
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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 B6B1507 - NO PREP										
Duplicate (B6B1507-DUP1)		Source: X602145-05			Prepared: 02/15/2016 Analyzed: 02/16/2016					
pH	8.21		pH Units		8.26			0.607	25	
Batch B6B1508 - NO PREP										
Blank (B6B1508-BLK1)		Prepared: 02/15/2016 Analyzed: 02/16/2016								
Specific Conductance (EC)	0.00340		mmhos/cm							
Duplicate (B6B1508-DUP1)		Source: X602145-05			Prepared: 02/15/2016 Analyzed: 02/16/2016					
Specific Conductance (EC)	0.0471		mmhos/cm		0.0439			7.03	25	

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Metals by SW846 3050B/6010C - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1545704 - SW846 3050B										
BLANK (1203491523-BLK)					Prepared: 02/17/2016 Analyzed: 02/18/2016					
Barium	ND	0.495	mg/kg				-			U
LCS (1203491524-BKS)					Prepared: 02/17/2016 Analyzed: 02/18/2016					
Barium	46.6	0.484	mg/kg	48.4		96.2	80-120			
DUP (1203491525 D)					Source: X602145-05 Prepared: 02/17/2016 Analyzed: 02/18/2016					
Barium	113	0.591	mg/kg dry		113		0-20	0.47	20	
MS (1203491526 S)					Source: X602145-05 Prepared: 02/17/2016 Analyzed: 02/18/2016					
Barium	170	0.558	mg/kg dry	55.8	113	101	75-125			

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

Justin Solomon
Project Number: 014211290-
Project: KMG - Spurling 35N-34Hz

Metals by SW846 3050B/6020A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1545428 - SW846 3050B										
BLANK (1203490729-BLK)					Prepared: 02/16/2016 Analyzed: 02/17/2016					
Arsenic	ND	0.984	mg/kg				-			U
LCS (1203490730-BKS)					Prepared: 02/16/2016 Analyzed: 02/17/2016					
Arsenic	4.28	0.945	mg/kg	4.73		90.6	80-120			
DUP (1203490731 D)					Prepared: 02/16/2016 Analyzed: 02/17/2016					
		Source: X602145-01								
Arsenic	3.80	1.18	mg/kg dry		3.72		0-20	2.18	20	
MS (1203490732 S)					Prepared: 02/16/2016 Analyzed: 02/17/2016					
		Source: X602145-01								
Arsenic	9.32	1.19	mg/kg dry	5.94	3.72	94.2	75-125			

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Justin Solomon
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TCLP Metals by 1311/3010A/6010C - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1545956 - SW846 3010A										
MS (1203491519 S)	Source: X602145-06				Prepared: 02/18/2016 Analyzed: 02/18/2016					
Arsenic	4.50	0.300	mg/L	5.00	<0.050	90.1	75-125			
TB (1203491520-BLK)					Prepared: 02/18/2016 Analyzed: 02/18/2016					
Arsenic	ND	0.300	mg/L				-			U
BLANK (1203492254-BLK)					Prepared: 02/18/2016 Analyzed: 02/18/2016					
Arsenic	ND	0.300	mg/L				-			U
LCS (1203492255-BKS)					Prepared: 02/18/2016 Analyzed: 02/18/2016					
Arsenic	4.67	0.300	mg/L	5.00		93.3	80-120			
DUP (1203492256 D)	Source: X602145-06				Prepared: 02/18/2016 Analyzed: 02/18/2016					
Arsenic	ND	0.300	mg/L		<0.050		0-20	43	20	U

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4600 West 60th Avenue

Arvada CO 80003

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Project Number: 014211290-

Project: KMG - Spurling 35N-34Hz

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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Jen Pellegrini For Noelle Doyle Mathis, President