



February 12, 2016

LT Environmental, Inc.

Justin Solomon

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - Cruick Shank 1C-24Hz

Project Number - 014211290-363

Attached are your analytical results for KMG - Cruick Shank 1C-24Hz received by Origins Laboratory, Inc. January 29, 2016. This project is associated with Origins project number X602013-01.

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: 014211290-363
Project: KMG - Cruick Shank 1C-24Hz

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Off S	X602013-01	Soil	January 26, 2016 15:30	01/29/2016 15:30
Off E	X602013-02	Soil	January 26, 2016 15:40	01/29/2016 15:30
Off N	X602013-03	Soil	January 26, 2016 15:50	01/29/2016 15:30
Off W	X602013-04	Soil	January 26, 2016 16:00	01/29/2016 15:30
Off Comp	X602013-05	Soil	January 26, 2016 16:10	01/29/2016 15:30
Pad Comp	X602013-06	Soil	January 26, 2016 16:20	01/29/2016 15:30

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

Justin Solomon
Project Number: 014211290-363
Project: KMG - Cruick Shank 1C-24Hz

ORIGINS

X602013

page 1 of 1

Client:	LT Environmental Inc.	Project Manager:	Justin Solomon
Address:	4600 W. 60th Ave Arvada CO 80002	Project Name:	KMG - Cruick Shank 1C-24Hz
Telephone Number:	303.433.7988	Project Number:	014211290-363
Fax Address:	solomon@ltenv.com	Samples Collected By:	RZ
		ATT: Mike Dunkel	

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis			Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air/Surface	Other	pH, EC, SAR	Total Arsenic	
Off S	1/26/16	1530	1	X						X				1
Off E		1540	1	X						X				2
Off N		1550	1	X						X				3
Off W		1600	1	X						X				4
Off Comp		1610	2	X						X				5
Pad Comp		1620	3	X						X				6
														7
														8
														9
														10
Relinquished By:	1/29/16	1415	415											Turnaround Time:
Relinquished By:	1/29/16	1530	1530											Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>

Date Results Needed

Origins Laboratory, Inc.

Jefe Pellegrini

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4600 West 60th Avenue
Arvada CO 80003

Justin Solomon
Project Number: 014211290-363
Project: KMG - Cruick Shank 1C-24Hz

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X602013

Client: LTE

Client Project ID: Cruick Shank 1C-24Hz

Checklist Completed by: Jeff Smith

Shipped Via: 4rd

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

Date/time completed: 2/1/16

Airbill #: NA

Matrix(s) Received: (Check all that apply): 1 Soil/Solid 1 Water 1 Other: 1

Cooler Number/Temperature: 1 / 4.0 °C 1 °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⁾ ?	<u>1</u>			
Is there ice present (document if blue ice is used)	<u>1</u>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<u>1</u>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<u>1</u>		
Were all samples received intact ⁽¹⁾ ?	<u>1</u>			
Was adequate sample volume provided ⁽¹⁾ ?	<u>1</u>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<u>1</u>			<u>PA</u>
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<u>1</u>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<u>1</u>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<u>1</u>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<u>1</u>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<u>1</u>	
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)			<u>1</u>	
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 02/01/16

Origins Laboratory, Inc.

[Signature]

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LT Environmental, Inc.
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Arvada CO 80003

Justin Solomon
Project Number: 014211290-363
Project: KMG - Cruick Shank 1C-24Hz

Off S

1/26/2016 3:30:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

GEL Laboratories, LLC
X602013-01 (Soil)

Metals by SW846 3050B/6020A

Arsenic	1.39	1.01	mg/kg dry	2	1541770	02/03/2016	02/04/2016
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Origins Laboratory, Inc.



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4600 West 60th Avenue
Arvada CO 80003

Justin Solomon
Project Number: 014211290-363
Project: KMG - Cruick Shank 1C-24Hz

Off E
1/26/2016 3:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X602013-02 (Soil)

Metals by SW846 3050B/6020A

Arsenic	1.17	1.05	mg/kg dry	2	1541770	02/03/2016	02/04/2016	
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4600 West 60th Avenue
Arvada CO 80003

Justin Solomon
Project Number: 014211290-363
Project: KMG - Cruick Shank 1C-24Hz

Off N

1/26/2016 3:50:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

GEL Laboratories, LLC
X602013-03 (Soil)

Metals by SW846 3050B/6020A

Arsenic	1.32	1.11	mg/kg dry	2	1541770	02/03/2016	02/04/2016
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Origins Laboratory, Inc.



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Arvada CO 80003

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Project Number: 014211290-363
Project: KMG - Cruick Shank 1C-24Hz

Off W
1/26/2016 4:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X602013-04 (Soil)

Metals by SW846 3050B/6020A

Arsenic	1.29	1.03	mg/kg dry	2	1541770	02/03/2016	02/04/2016	
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Project: KMG - Cruick Shank 1C-24Hz

Off Comp
1/26/2016 4:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X602013-05 (Soil)

Metals by 6010

Calcium	2.27		me/L	1	'[none]'	02/06/2016	02/10/2016
Magnesium	.81		"	"	"	"	"
Sodium	4.31		"	"	"	"	"

Metals by SW846 3050B/6010C

Barium	1120	0.509	mg/kg dry	1	1541780	02/02/2016	02/03/2016
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Metals by SW846 3050B/6020A

Arsenic	1.37	1.03	mg/kg dry	2	1541770	02/03/2016	02/04/2016
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pH in Soil by EPA 9045D

pH	8.41		pH Units	1	B6B0106	02/01/2016	02/01/2016
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SAR by 20B Saturated Paste

SAR	3.47			1	'[none]'	02/06/2016	02/10/2016
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0704		mmhos/cm	1	B6B0107	02/01/2016	02/01/2016
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Project Number: 014211290-363
Project: KMG - Cruick Shank 1C-24Hz

Pad Comp
1/26/2016 4:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X602013-06 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	B6B0105	02/01/2016	02/03/2016	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

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

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6B0104	02/01/2016	02/02/2016	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 130 % 70-130 " " "
Surrogate: Toluene-d8 106 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 107 % 70-130 " " "

Metals by 6010

Calcium	1.82		me/L	1	'[none]'	02/06/2016	02/10/2016	
Magnesium	0.62		"	"	"	"	"	
Sodium	8.31		"	"	"	"	"	

Metals by SW846 3050B/6010C

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Project Number: 014211290-363
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Pad Comp
1/26/2016 4:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X602013-06 (Soil)

Metals by SW846 3050B/6010C

Barium	2420	2.72	mg/kg dry	5	1541780	02/02/2016	02/03/2016
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Metals by SW846 3050B/6020A

Arsenic	2.32	1.09	mg/kg dry	2	1541770	02/03/2016	02/04/2016
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pH in Soil by EPA 9045D

pH	8.82		pH Units	1	B6B0106	02/01/2016	02/01/2016
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SAR by 20B Saturated Paste

SAR	7.52			1	'[none]'	02/06/2016	02/10/2016
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.119		mmhos/cm	1	B6B0107	02/01/2016	02/01/2016
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TCLP Metals by 1311/3010A/6010C

Arsenic	ND	0.300	mg/L	1	1541965	02/03/2016	02/03/2016	U
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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 B6B0104 - EPA 5030 (soil)										
Blank (B6B0104-BLK1)					Prepared: 02/01/2016 Analyzed: 02/01/2016					
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	74.8		ug/kg	62.5		120	70-130			
Surrogate: Toluene-d8	65.2		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	62.6		"	62.5		100	70-130			

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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 B6B0104 - EPA 5030 (soil)										
LCS (B6B0104-BS1)					Prepared: 02/01/2016 Analyzed: 02/01/2016					
Benzene	0.102	0.002	mg/kg	0.100		102	77.1-124			
Toluene	0.111	0.002	"	0.100		111	74.5-128			
Ethylbenzene	0.102	0.002	"	0.100		102	66.4-127			
m,p-Xylene	0.218	0.004	"	0.200		109	76.6-124			
o-Xylene	0.110	0.002	"	0.100		110	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	75.6		ug/kg	62.5		121	70-130			
Surrogate: Toluene-d8	68.7		"	62.5		110	70-130			
Surrogate: 4-Bromofluorobenzene	58.4		"	62.5		93.5	70-130			

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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 B6B0104 - EPA 5030 (soil)

Matrix Spike (B6B0104-MS1)		Source: X602001-06			Prepared: 02/01/2016 Analyzed: 02/01/2016					
Benzene	0.098	0.002	mg/kg	0.100	ND	97.8	71.8-126			
Toluene	0.106	0.002	"	0.100	ND	106	65.1-130			
Ethylbenzene	0.105	0.002	"	0.100	ND	105	62.2-130			
m,p-Xylene	0.222	0.004	"	0.200	ND	111	46.5-137			
o-Xylene	0.110	0.002	"	0.100	ND	110	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	73.7		ug/kg	62.5		118	70-130			
Surrogate: Toluene-d8	69.6		"	62.5		111	70-130			
Surrogate: 4-Bromofluorobenzene	62.2		"	62.5		99.5	70-130			

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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 B6B0104 - EPA 5030 (soil)										
Matrix Spike Dup (B6B0104-MSD1)		Source: X602001-06			Prepared: 02/01/2016 Analyzed: 02/01/2016					
Benzene	0.091	0.002	mg/kg	0.100	ND	91.0	71.8-126	7.12	11.3	
Toluene	0.100	0.002	"	0.100	ND	100	65.1-130	5.17	15.4	
Ethylbenzene	0.100	0.002	"	0.100	ND	99.8	62.2-130	4.83	19.6	
m,p-Xylene	0.211	0.004	"	0.200	ND	106	46.5-137	4.90	19.2	
o-Xylene	0.105	0.002	"	0.100	ND	105	54.2-134	4.45	17.9	
Surrogate: 1,2-Dichloroethane-d4	73.4		ug/kg	62.5		117	70-130			
Surrogate: Toluene-d8	70.0		"	62.5		112	70-130			
Surrogate: 4-Bromofluorobenzene	61.4		"	62.5		98.3	70-130			

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Project Number: 014211290-363
Project: KMG - Cruick Shank 1C-24Hz

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 B6B0105 - EPA 3580

Blank (B6B0105-BLK1)

Prepared: 02/01/2016 Analyzed: 02/03/2016

Diesel (C10-C28)	ND	50	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	200	"							Ua
Surrogate: o-Terphenyl	40		"	50.0		80.0	59-131			

LCS (B6B0105-BS1)

Prepared: 02/01/2016 Analyzed: 02/03/2016

Diesel (C10-C28)	1100	50	mg/kg				64-121			
Residual Range Organics (C28-C40)	1100	200	"				58-124			
Surrogate: o-Terphenyl	56		"	50.0		113	59-131			

Matrix Spike (B6B0105-MS1)

Source: X602001-06

Prepared: 02/01/2016 Analyzed: 02/03/2016

Diesel (C10-C28)	970	50	mg/kg		ND		53-125			
Residual Range Organics (C28-C40)	980	200	"		18		47-133			
Surrogate: o-Terphenyl	52		"	50.0		104	59-131			

Matrix Spike Dup (B6B0105-MSD1)

Source: X602001-06

Prepared: 02/01/2016 Analyzed: 02/03/2016

Diesel (C10-C28)	1000	50	mg/kg		ND		53-125	3.58	20	
Residual Range Organics (C28-C40)	1100	200	"		18		47-133	7.03	20	
Surrogate: o-Terphenyl	47		"	50.0		94.3	59-131			

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Project Number: 014211290-363
Project: KMG - Cruick Shank 1C-24Hz

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 B6B0106 - NO PREP										
Duplicate (B6B0106-DUP1)	Source: X602001-05				Prepared: 02/01/2016 Analyzed: 02/01/2016					
pH	7.53		pH Units		7.59			0.794	25	
Duplicate (B6B0106-DUP2)	Source: X602001-06				Prepared: 02/01/2016 Analyzed: 02/01/2016					
pH	8.13		pH Units		8.25			1.47	25	
Batch B6B0107 - NO PREP										
Blank (B6B0107-BLK1)	Prepared: 02/01/2016 Analyzed: 02/01/2016									
Specific Conductance (EC)	0.00320		mmhos/cm							
Blank (B6B0107-BLK2)	Prepared: 02/01/2016 Analyzed: 02/01/2016									
Specific Conductance (EC)	0.00310		mmhos/cm							
Duplicate (B6B0107-DUP1)	Source: X602002-05				Prepared: 02/01/2016 Analyzed: 02/01/2016					
Specific Conductance (EC)	0.0340		mmhos/cm		0.0370			8.45	25	
Duplicate (B6B0107-DUP2)	Source: X602001-06				Prepared: 02/01/2016 Analyzed: 02/01/2016					
Specific Conductance (EC)	0.245		mmhos/cm		0.228			7.19	25	

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Project: KMG - Cruick Shank 1C-24Hz

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 1541780 - SW846 3050B										
BLANK (1203480453-BLK)					Prepared: 02/02/2016 Analyzed: 02/03/2016					
Barium	ND	0.492	mg/kg				-			U
LCS (1203480454-BKS)					Prepared: 02/02/2016 Analyzed: 02/03/2016					
Barium	50.2	0.496	mg/kg	49.6		101	80-120			
DUP (1203480455 D)					Prepared: 02/02/2016 Analyzed: 02/03/2016					
		Source: 390449005								
Barium	114	0.615	mg/kg dry		102		0-20	10.8	20	
MS (1203480456 S)					Prepared: 02/02/2016 Analyzed: 02/03/2016					
		Source: 390449005								
Barium	171	0.619	mg/kg dry	61.9	102	111	75-125			

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

Justin Solomon
Project Number: 014211290-363
Project: KMG - Cruick Shank 1C-24Hz

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 1541770 - SW846 3050B										
BLANK (1203480419-BLK)					Prepared: 02/03/2016 Analyzed: 02/04/2016					
Arsenic	ND	0.988	mg/kg				-			U
LCS (1203480420-BKS)					Prepared: 02/03/2016 Analyzed: 02/04/2016					
Arsenic	4.35	0.973	mg/kg	4.86		89.5	80-120			
DUP (1203480421 D)					Prepared: 02/03/2016 Analyzed: 02/04/2016					
		Source: X602013-01								
Arsenic	1.22	1.02	mg/kg dry		1.39		0-20	12.4	20	
MS (1203480422 S)					Prepared: 02/03/2016 Analyzed: 02/04/2016					
		Source: X602013-01								
Arsenic	6.03	1.04	mg/kg dry	5.21	1.39	89.2	75-125			

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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 1541965 - SW846 3010A										
MS (1203480362 S)	Source: 390430006				Prepared: 02/03/2016 Analyzed: 02/03/2016					
Arsenic	4.41	0.300	mg/L	5.00	<0.050	88	75-125			
TB (1203480363-BLK)	Prepared: 02/03/2016 Analyzed: 02/03/2016									
Arsenic	ND	0.300	mg/L				-			U
TB (1203480720-BLK)	Prepared: 02/03/2016 Analyzed: 02/03/2016									
Arsenic	ND	0.300	mg/L				-			U
BLANK (1203480933-BLK)	Prepared: 02/03/2016 Analyzed: 02/03/2016									
Arsenic	ND	0.300	mg/L				-			U
LCS (1203480934-BKS)	Prepared: 02/03/2016 Analyzed: 02/03/2016									
Arsenic	4.79	0.300	mg/L	5.00		95.9	80-120			
DUP (1203480935 D)	Source: 390430006				Prepared: 02/03/2016 Analyzed: 02/03/2016					
Arsenic	ND	0.300	mg/L		<0.050		0-20	NR	20	U

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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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