



February 26, 2015

LT Environmental, Inc.

Justin Solomon

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Grenemyer 36C-3Hz

Project Number - 014211290-369

Attached are your analytical results for KMG - Grenemyer 36C-3Hz received by Origins Laboratory, Inc. February 17, 2015. This project is associated with Origins project number X502195-01.

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: 014211290-369
Project: KMG - Grenemyer 36C-3Hz

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Off S	X502195-01	Soil	February 12, 2015 15:25	02/17/2015 16:45
Off E	X502195-02	Soil	February 12, 2015 15:30	02/17/2015 16:45
Off N	X502195-03	Soil	February 12, 2015 15:35	02/17/2015 16:45
Off W	X502195-04	Soil	February 12, 2015 15:40	02/17/2015 16:45
Off Comp	X502195-05	Soil	February 12, 2015 15:45	02/17/2015 16:45
Pad Comp	X502195-06	Soil	February 12, 2015 15:50	02/17/2015 16:45

Origins Laboratory, Inc.



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Noelle Doyle Mathis, President

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

Justin Solomon
Project Number: 014211290-369
Project: KMG - Grenemyer 36C-3Hz

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page 1 of 1

X502195

ORIGINS
LABORATORY, INC

Project Manager: Justin Solomon
Project Name: KMG - Grenemyer 36C-3Hz
Project Number: 014211290-369
Samples Collected By: RZ

Client: LT Environmental Inc.
Address: 4600 W. 60th Ave Arvada CO 80002
Telephone Number: 303.433.7988
Email Address: jsolomon@ltenv.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions			
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa e	Other	BTX	PH, EC, SAR	Total Arsenic		Total Barium	TCLP Arsenic	
Off S	2/12/15	15:25	1	X					X									1
Off E		15:30	1	X					X									2
Off N		15:35	1	X					X									3
Off W		15:40	1	X					X									4
Off Comp		15:45	2	X					X					X	X			5
Pad Comp		15:50	3	X					X					X	X	X		6
																		7
																		8
																		9
																		10
Relinquished By: [Signature]	Date: 2/17/15	Time: 16:00							Received By: [Signature]	Date: 2/17/15	Time: 15:00							Turnaround Time: 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"/>
Relinquished By: [Signature]	Date: 2/17/15	Time: 11:45							Received By: [Signature]	Date: 2/17/15	Time: 15:00							

Date Results Needed

1.9

Origins Laboratory, Inc.

[Signature]

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4600 West 60th Avenue
Arvada CO 80003

Justin Solomon
Project Number: 014211290-369
Project: KMG - Grenemyer 36C-3Hz

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: XS62195

Client: LTE

Client Project ID: Grenemyer 36C-3Hz

Checklist Completed by: Justin Solomon

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

Date/time completed: 2/18/15

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 1.9 °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⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PH
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<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 type="checkbox"/>	<input type="checkbox"/>	<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: (Signature) (Project Manager)

Date/Time Reviewed: 02-18-15

Origins Laboratory, Inc.

(Signature)

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LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

Justin Solomon

Project Number: 014211290-369

Project: KMG - Grenemyer 36C-3Hz

Off S

2/12/2015 3:25:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

GEL Laboratories, LLC

X502195-01 (Soil)

Total Metals by SW846 3050B/6010C

Arsenic	12.6	3.24	mg/kg dry	1	1459051	02/20/2015	02/20/2015
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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: 014211290-369

Project: KMG - Grenemyer 36C-3Hz

Off E

2/12/2015 3:30:00PM

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit						

GEL Laboratories, LLC

X502195-02 (Soil)

Total Metals by SW846 3050B/6010C

Arsenic	6.12	3.07	mg/kg dry	1	1459051	02/20/2015	02/20/2015
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Origins Laboratory, Inc.



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4600 West 60th Avenue

Arvada CO 80003

Justin Solomon

Project Number: 014211290-369

Project: KMG - Grenemyer 36C-3Hz

Off N

2/12/2015 3:35:00PM

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit						

GEL Laboratories, LLC

X502195-03 (Soil)

Total Metals by SW846 3050B/6010C

Arsenic	8.69	3.52	mg/kg dry	1	1459051	02/20/2015	02/20/2015
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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: 014211290-369

Project: KMG - Grenemyer 36C-3Hz

Off W

2/12/2015 3:40:00PM

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit						

GEL Laboratories, LLC

X502195-04 (Soil)

Total Metals by SW846 3050B/6010C

Arsenic	7.70	3.17	mg/kg dry	1	1459051	02/20/2015	02/20/2015
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Origins Laboratory, Inc.



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4600 West 60th Avenue

Arvada CO 80003

Justin Solomon

Project Number: 014211290-369

Project: KMG - Grenemyer 36C-3Hz

Off Comp

2/12/2015 3:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. X502195-05 (Soil)

pH in Soil by EPA 9045D

pH	7.99		pH Units	1	5B18008	02/18/2015	02/18/2015
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SAR Metals by SW846 3050B/6010C

Calcium	6090	28.4	mg/kg dry	1	1459052	02/20/2015	02/20/2015
Magnesium	3450	34.1	"	"	"	"	"
Sodium	90.7	28.4	"	"	"	"	"

Sodium Adsorption Ratio

Sodium Adsorption Ratio	0.230		none	1	1459665		02/24/2015
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.119		mmhos/cm	1	5B18007	02/18/2015	02/18/2015
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Total Metals by SW846 3050B/6010C

Arsenic	8.08	3.41	mg/kg dry	1	1459051	02/20/2015	02/20/2015
Barium	156	0.569	"	"	"	"	"

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Project Number: 014211290-369
Project: KMG - Grenemyer 36C-3Hz

Pad Comp
2/12/2015 3:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X502195-06 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	5B18006	02/18/2015	02/19/2015
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"
Surrogate: Toluene-d8	115 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	94.4 %	70-130			"	"	"

pH in Soil by EPA 9045D

pH	8.34		pH Units	1	5B18008	02/18/2015	02/18/2015
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SAR Metals by SW846 3050B/6010C

Calcium	9560	28.2	mg/kg dry	1	1459052	02/20/2015	02/20/2015
Magnesium	3600	33.9	"	"	"	"	"
Sodium	340	28.2	"	"	"	"	"

Sodium Adsorption Ratio

Sodium Adsorption Ratio	0.753		none	1	1459665		02/24/2015
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.242		mmhos/cm	1	5B18007	02/18/2015	02/18/2015
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Project Number: 014211290-369
Project: KMG - Grenemyer 36C-3Hz

Pad Comp**2/12/2015 3:50:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X502195-06 (Soil)**TCLP Metals by 1311/3010A/6010C**

Arsenic	ND	0.300	mg/L	1	1459121	02/20/2015	02/20/2015	U
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Total Metals by SW846 3050B/6010C

Arsenic	7.64	3.39	mg/kg dry	1	1459051	"	02/20/2015
Barium	602	0.565	"	"	"	"	"

TPH-Carbon Chain by EPA Method 8015C

Gasoline (C6-C10)	ND	50	mg/kg	1	5B18005	02/18/2015	02/18/2015
Diesel (C10-C28)	ND	50	"	"	"	"	"
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"

Surrogate: o-Terphenyl	90.2 %	65-146			"	"	"
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Project Number: 014211290-369

Project: KMG - Grenemyer 36C-3Hz

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 5B18006 - EPA 5030 (soil)

Blank (5B18006-BLK1)

Prepared: 02/18/2015 Analyzed: 02/19/2015

Benzene	ND	0.002	mg/kg							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		96.8	70-130			
Surrogate: Toluene-d8	69		"	62.5		110	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		92.2	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 5B18006 - EPA 5030 (soil)

LCS (5B18006-BS1)

Prepared: 02/18/2015 Analyzed: 02/19/2015

Benzene	0.098	0.002	mg/kg	0.100		97.5	77.1-124			
Toluene	0.104	0.002	"	0.100		104	74.5-128			
Ethylbenzene	0.087	0.002	"	0.100		86.8	66.4-127			
m,p-Xylene	0.179	0.004	"	0.200		89.4	76.6-124			
o-Xylene	0.086	0.002	"	0.100		85.7	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		98.4	70-130			
Surrogate: Toluene-d8	69		"	62.5		111	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	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
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Batch 5B18006 - EPA 5030 (soil)

Matrix Spike (5B18006-MS1)		Source: X502194-06			Prepared: 02/18/2015 Analyzed: 02/19/2015					
Benzene	0.098	0.002	mg/kg	0.100	ND	97.5	71.8-126			
Toluene	0.106	0.002	"	0.100	ND	106	65.1-130			
Ethylbenzene	0.090	0.002	"	0.100	ND	90.0	62.2-130			
m,p-Xylene	0.180	0.004	"	0.200	ND	90.2	46.5-137			
o-Xylene	0.089	0.002	"	0.100	ND	88.9	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.1	70-130			
Surrogate: Toluene-d8	69		"	62.5		110	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		93.7	70-130			

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Project Number: 014211290-369

Project: KMG - Grenemyer 36C-3Hz

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 5B18006 - EPA 5030 (soil)

Matrix Spike Dup (5B18006-MSD1)		Source: X502194-06			Prepared: 02/18/2015 Analyzed: 02/19/2015					
Benzene	0.099	0.002	mg/kg	0.100	ND	98.6	71.8-126	1.12	11.3	
Toluene	0.109	0.002	"	0.100	ND	109	65.1-130	2.73	15.4	
Ethylbenzene	0.093	0.002	"	0.100	ND	93.3	62.2-130	3.64	19.6	
m,p-Xylene	0.184	0.004	"	0.200	ND	92.2	46.5-137	2.20	19.2	
o-Xylene	0.093	0.002	"	0.100	ND	93.1	54.2-134	4.57	17.9	
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.3	70-130			
Surrogate: Toluene-d8	71		"	62.5		114	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.6	70-130			

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Project Number: 014211290-369
Project: KMG - Grenemyer 36C-3Hz

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 8015M - 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 5B18005 - EPA 3580

Blank (5B18005-BLK1)

Prepared: 02/18/2015 Analyzed: 02/18/2015

Gasoline (C6-C10)	ND	50	mg/kg
Diesel (C10-C28)	ND	50	"
Residual Range Organics (C28-C36)	ND	200	"

Surrogate: o-Terphenyl

61.2

"

50.0

122

65-146

LCS (5B18005-BS1)

Prepared: 02/18/2015 Analyzed: 02/18/2015

Gasoline (C6-C10)	920	50	mg/kg	1000	91.6	66.7-119
Diesel (C10-C28)	990	50	"	1000	98.6	70.1-127
Residual Range Organics (C28-C36)	1100	200	"	1000	107	54.5-139

Surrogate: o-Terphenyl

53.3

"

50.0

107

65-146

Matrix Spike (5B18005-MS1)

Source: X502194-06

Prepared: 02/18/2015 Analyzed: 02/18/2015

Gasoline (C6-C10)	930	50	mg/kg	1000	25	90.7	56.4-132
Diesel (C10-C28)	950	50	"	1000	23	92.4	57.4-138
Residual Range Organics (C28-C36)	1100	200	"	1000	20	106	47.7-129

Surrogate: o-Terphenyl

48.5

"

50.0

96.9

65-146

Matrix Spike Dup (5B18005-MSD1)

Source: X502194-06

Prepared: 02/18/2015 Analyzed: 02/18/2015

Gasoline (C6-C10)	920	50	mg/kg	1000	25	89.8	56.4-132	0.939	22
Diesel (C10-C28)	980	50	"	1000	23	95.4	57.4-138	3.12	18.3
Residual Range Organics (C28-C36)	1100	200	"	1000	20	106	47.7-129	0.136	30.1

Surrogate: o-Terphenyl

48.5

"

50.0

97.0

65-146

Origins Laboratory, Inc.



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4600 West 60th Avenue

Arvada CO 80003

Justin Solomon

Project Number: 014211290-369

Project: KMG - Grenemyer 36C-3Hz

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 5B18007 - NO PREP										
Blank (5B18007-BLK1)					Prepared: 02/18/2015 Analyzed: 02/18/2015					
Specific Conductance (EC)	0.00240		mmhos/cm							
Duplicate (5B18007-DUP1)					Source: X502194-05		Prepared: 02/18/2015 Analyzed: 02/18/2015			
Specific Conductance (EC)	0.0976		mmhos/cm		0.0969			0.720	25	
Batch 5B18008 - NO PREP										
Duplicate (5B18008-DUP1)					Source: X502194-05		Prepared: 02/18/2015 Analyzed: 02/18/2015			
pH	8.25		pH Units		8.23			0.243	25	

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Noelle Doyle Mathis, President

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

Justin Solomon
Project Number: 014211290-369
Project: KMG - Grenemyer 36C-3Hz

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 1459121 - SW846 3010A										
MS (1203267996 S)	Source: 367361006				Prepared: 02/20/2015 Analyzed: 02/20/2015					
Arsenic	4.90	0.300	mg/L	5.00	<0.050	97.9	75-125			
TB (1203267997-BLK)					Prepared: 02/20/2015 Analyzed: 02/20/2015					
Arsenic	ND	0.300	mg/L				-			U
BLANK (1203268419-BLK)					Prepared: 02/20/2015 Analyzed: 02/20/2015					
Arsenic	ND	0.300	mg/L				-			U
LCS (1203268420-BKS)					Prepared: 02/20/2015 Analyzed: 02/20/2015					
Arsenic	5.16	0.300	mg/L	5.00		103	80-120			
DUP (1203268421 D)	Source: 367361006				Prepared: 02/20/2015 Analyzed: 02/20/2015					
Arsenic	ND	0.300	mg/L		<0.050		0-20	NR	20	U

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Total 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 1459051 - SW846 3050B										
BLANK (1203268269-BLK)					Prepared: 02/20/2015 Analyzed: 02/20/2015					
Barium	ND	0.479	mg/kg				-			U
Arsenic	ND	2.87	"				-			U
LCS (1203268270-BKS)					Prepared: 02/20/2015 Analyzed: 02/20/2015					
Barium	50.0	0.494	mg/kg	49.4		101	80-120			
Arsenic	50.5	2.96	"	49.4		102	80-120			
DUP (1203268271 D)					Source: X502195-01		Prepared: 02/20/2015 Analyzed: 02/20/2015			
Arsenic	12.5	3.31	mg/kg dry		12.6		0-20	1.02	20	
Barium	121	0.552	"		123		0-20	1.59	20	
MS (1203268272 S)					Source: X502195-01		Prepared: 02/20/2015 Analyzed: 02/20/2015			
Barium	178	0.540	mg/kg dry	54.0	123	102	75-125			
Arsenic	66.0	3.24	"	54.0	12.6	98.7	75-125			

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Project: KMG - Grenemyer 36C-3Hz

Notes and Definitions

- U Result not detected above the detection limit
- J Greater than the detection limit but less than the reporting 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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