



April 15, 2015

LT Environmental, Inc.

Justin Solomon

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - Badding 2N-26Hz

Project Number - 014211290-317

Attached are your analytical results for KMG - Badding 2N-26Hz received by Origins Laboratory, Inc. April 07, 2015. This project is associated with Origins project number X504091-01.

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: 014211290-317
Project: KMG - Badding 2N-26Hz

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Off S	X504091-01	Soil	April 7, 2015 13:00	04/07/2015 17:15
Off E	X504091-02	Soil	April 7, 2015 13:10	04/07/2015 17:15
Off N	X504091-03	Soil	April 7, 2015 13:20	04/07/2015 17:15
Off W	X504091-04	Soil	April 7, 2015 13:30	04/07/2015 17:15
Off Comp	X504091-05	Soil	April 7, 2015 13:35	04/07/2015 17:15
Pad Comp	X504091-06	Soil	April 7, 2015 13:45	04/07/2015 17:15

Origins Laboratory, Inc.



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

Justin Solomon
Project Number: 014211290-317
Project: KMG - Badding 2N-26Hz



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X501091

page 1 of 1

ORIGINS
LABORATORY, INC

Client:	LT Environmental Inc.	Project Manager:	Justin Solomon
Address:	4600 W. 60th Ave Arvada CO 80002	Project Name:	KMG - Badding 2N-26Hz
Telephone Number:	303.433.7988	Project Number:	014211290- 317
Email Address:	jsolomon@ltenv.com	Samples Collected By:	RZ

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Continer #	Other	THE KIRKLAND, DOW, CML	BTEX	PH, EC, SAR		Total Arsenic	Total Barium
Off S	4/7/15	12:00	1	X					X					X			1
Off E	4/7/15	13:10	1	X					X					X			2
Off N	4/7/15	13:20	1	X					X					X			3
Off W	4/7/15	13:30	1	X					X					X			4
Off Comp	4/7/15	13:35	2	X					X					X	X	X	5
Pad Comp	4/7/15	13:45	3	X					X					X	X	X	6
																	7
																	8
																	9
																	10
Relinquished By: 	4/7/15	16:15	16:15	16:15										4/7/15	16:15	24 Hr	Time: Same Day
Relinquished By: 	4/7/15	17:15	17:15	17:15										4/7/15	17:15	48 Hr	Time: Standard

Date Results Needed

Origins Laboratory, Inc.

Jefe Pellegrini

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Arvada CO 80003

Justin Solomon
Project Number: 014211290-317
Project: KMG - Badding 2N-26Hz

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X504091

Client: LTE

Client Project ID: KMG - Badding 2N-26Hz

Checklist Completed by: Jen Pellegrini

Shipped Via: H/D

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

Date/time completed: 4/8/15

Airbill #: 01A

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

Cooler Number/Temperature: 1 / 2.1 °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			
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			
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			pt
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)

4/8/15
Date/Time Reviewed

Origins Laboratory, Inc.

Jen Pellegrini

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Arvada CO 80003

Justin Solomon

Project Number: 014211290-317

Project: KMG - Badding 2N-26Hz

Off S

4/7/2015 1:00:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

GEL Laboratories, LLC

X504091-01 (Soil)

Metals by SW846 3050B/6010C

Arsenic	4.14	3.12	mg/kg dry	1	1470048	04/09/2015	04/13/2015
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Origins Laboratory, Inc.



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4600 West 60th Avenue
Arvada CO 80003

Justin Solomon
Project Number: 014211290-317
Project: KMG - Badding 2N-26Hz

Off E

4/7/2015 1:10:00PM

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit						

GEL Laboratories, LLC
X504091-02 (Soil)

Metals by SW846 3050B/6010C

Arsenic	2.93	3.05	mg/kg dry	1	1470048	04/09/2015	04/13/2015	J
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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: 014211290-317

Project: KMG - Badding 2N-26Hz

Off N

4/7/2015 1:20:00PM

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit						

GEL Laboratories, LLC

X504091-03 (Soil)

Metals by SW846 3050B/6010C

Arsenic	2.75	2.93	mg/kg dry	1	1470048	04/09/2015	04/13/2015	J
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Origins Laboratory, Inc.



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4600 West 60th Avenue
Arvada CO 80003

Justin Solomon
Project Number: 014211290-317
Project: KMG - Badding 2N-26Hz

Off W

4/7/2015 1:30:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

GEL Laboratories, LLC
X504091-04 (Soil)

Metals by SW846 3050B/6010C

Arsenic	2.21	2.97	mg/kg dry	1	1470048	04/09/2015	04/13/2015	J
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Project: KMG - Badding 2N-26Hz

Off Comp
4/7/2015 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X504091-05 (Soil)

Metals by SW846 3050B/6010C

Arsenic	2.40	2.90	mg/kg dry	1	1470048	04/09/2015	04/13/2015	J
Barium	55.7	0.483	"	"	"	"	"	

pH in Soil by EPA 9045D

pH	7.69		pH Units	1	5D09007	04/09/2015	04/09/2015	
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SAR Metals by SW846 3050B/6010C

Calcium	1360	24.2	mg/kg dry	1	1470049	04/09/2015	04/13/2015	
Magnesium	1070	29.0	"	"	"	"	"	
Sodium	24.0	24.2	"	"	"	"	"	J

Sodium Adsorption Ratio

Sodium Adsorption Ratio	0.118		none	1	1471297		04/14/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0187		mmhos/cm	1	5D09006	04/09/2015	04/09/2015	
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Project Number: 014211290-317
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Pad Comp

4/7/2015 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. X504091-06 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	5D09009	04/09/2015	04/09/2015
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"
Surrogate: Toluene-d8	96.1 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	98.0 %	70-130			"	"	"

Metals by SW846 3050B/6010C

Arsenic	4.11	3.20	mg/kg dry	1	1470048	04/09/2015	04/13/2015
Barium	1580	0.534	"	"	"	"	"

pH in Soil by EPA 9045D

pH	8.76		pH Units	1	5D09007	04/09/2015	04/09/2015
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SAR Metals by SW846 3050B/6010C

Calcium	6300	26.7	mg/kg dry	1	1470049	04/09/2015	04/13/2015
Magnesium	2010	32.0	"	"	"	"	"
Sodium	451	26.7	"	"	"	"	"

Sodium Adsorption Ratio

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Project: KMG - Badding 2N-26Hz

Pad Comp**4/7/2015 1:45:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X504091-06 (Soil)**Sodium Adsorption Ratio**

Sodium Adsorption Ratio	1.27		none	1	1471297		04/14/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.209		mmhos/cm	1	5D09006	04/09/2015	04/09/2015	
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TCLP Metals by 1311/3010A/6010C

Arsenic	ND	0.300	mg/L	1	1470428	04/10/2015	04/13/2015	U
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TPH-Carbon Chain by EPA Method 8015C

Gasoline (C6-C10)	ND	50	mg/kg	1	5D09008	04/09/2015	04/09/2015	
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Diesel (C10-C28)	ND	50	"	"	"	"	"	
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Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	
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Surrogate: o-Terphenyl	77.5 %	65-146			"	"	"	
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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 5D09009 - EPA 5030 (soil)

Blank (5D09009-BLK1)

Prepared: 04/09/2015 Analyzed: 04/09/2015

Benzene	ND	0.002	mg/kg							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5	105	70-130				
Surrogate: Toluene-d8	63		"	62.5	101	70-130				
Surrogate: 4-Bromofluorobenzene	65		"	62.5	104	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 5D09009 - EPA 5030 (soil)										
LCS (5D09009-BS1)					Prepared: 04/09/2015 Analyzed: 04/09/2015					
Benzene	0.092	0.002	mg/kg	0.100		91.6	77.1-124			
Toluene	0.093	0.002	"	0.100		93.0	74.5-128			
Ethylbenzene	0.081	0.002	"	0.100		80.9	66.4-127			
m,p-Xylene	0.162	0.004	"	0.200		80.9	76.6-124			
o-Xylene	0.094	0.002	"	0.100		93.9	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	71		ug/kg	62.5		114	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.4	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 5D09009 - EPA 5030 (soil)

Matrix Spike (5D09009-MS1)		Source: X504091-06			Prepared: 04/09/2015 Analyzed: 04/09/2015					
Benzene	0.091	0.002	mg/kg	0.100	ND	91.1	71.8-126			
Toluene	0.095	0.002	"	0.100	ND	94.9	65.1-130			
Ethylbenzene	0.086	0.002	"	0.100	ND	85.9	62.2-130			
m,p-Xylene	0.172	0.004	"	0.200	ND	85.9	46.5-137			
o-Xylene	0.099	0.002	"	0.100	ND	98.7	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	69		ug/kg	62.5		110	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.8	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 5D09009 - EPA 5030 (soil)

Matrix Spike Dup (5D09009-MSD1)		Source: X504091-06			Prepared: 04/09/2015 Analyzed: 04/09/2015					
Benzene	0.088	0.002	mg/kg	0.100	ND	88.4	71.8-126	2.96	11.3	
Toluene	0.087	0.002	"	0.100	ND	86.9	65.1-130	8.80	15.4	
Ethylbenzene	0.078	0.002	"	0.100	ND	78.3	62.2-130	9.21	19.6	
m,p-Xylene	0.157	0.004	"	0.200	ND	78.3	46.5-137	9.23	19.2	
o-Xylene	0.090	0.002	"	0.100	ND	90.3	54.2-134	8.91	17.9	
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.0	70-130			

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Project Number: 014211290-317
Project: KMG - Badding 2N-26Hz

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 5D09008 - EPA 3580

Blank (5D09008-BLK1)

Prepared: 04/09/2015 Analyzed: 04/09/2015

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

Surrogate: o-Terphenyl

43.3

"

50.0

86.6

65-146

LCS (5D09008-BS1)

Prepared: 04/09/2015 Analyzed: 04/09/2015

Gasoline (C6-C10)	1000	50	mg/kg	1000	105	66.7-119
Diesel (C10-C28)	980	50	"	1000	97.5	70.1-127
Residual Range Organics (C28-C36)	970	200	"	1000	96.5	54.5-139

Surrogate: o-Terphenyl

48.2

"

50.0

96.3

65-146

Matrix Spike (5D09008-MS1)

Source: X504091-06

Prepared: 04/09/2015 Analyzed: 04/09/2015

Gasoline (C6-C10)	1100	50	mg/kg	1000	ND	112	56.4-132
Diesel (C10-C28)	1000	50	"	1000	39	96.4	57.4-138
Residual Range Organics (C28-C36)	1000	200	"	1000	ND	104	47.7-129

Surrogate: o-Terphenyl

44.3

"

50.0

88.6

65-146

Matrix Spike Dup (5D09008-MSD1)

Source: X504091-06

Prepared: 04/09/2015 Analyzed: 04/09/2015

Gasoline (C6-C10)	1200	50	mg/kg	1000	ND	115	56.4-132	2.58	22
Diesel (C10-C28)	1100	50	"	1000	39	102	57.4-138	5.49	18.3
Residual Range Organics (C28-C36)	1100	200	"	1000	ND	113	47.7-129	7.98	30.1

Surrogate: o-Terphenyl

44.8

"

50.0

89.5

65-146

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Project Number: 014211290-317
Project: KMG - Badding 2N-26Hz

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 5D09006 - NO PREP										
Blank (5D09006-BLK1)					Prepared: 04/09/2015 Analyzed: 04/09/2015					
Specific Conductance (EC)	0.00250		mmhos/cm							
Duplicate (5D09006-DUP1)					Source: X504091-05		Prepared: 04/09/2015 Analyzed: 04/09/2015			
Specific Conductance (EC)	0.0195		mmhos/cm		0.0187			4.19	25	
Batch 5D09007 - NO PREP										
Duplicate (5D09007-DUP1)					Source: X504091-05		Prepared: 04/09/2015 Analyzed: 04/09/2015			
pH	7.71		pH Units		7.69			0.260	25	

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Project Number: 014211290-317
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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 1470048 - SW846 3050B										
BLANK (1203296147-BLK)					Prepared: 04/09/2015 Analyzed: 04/13/2015					
Arsenic	ND	2.95	mg/kg				-			U
Barium	ND	0.491	"				-			U
LCS (1203296148-BKS)					Prepared: 04/09/2015 Analyzed: 04/13/2015					
Barium	50.5	0.496	mg/kg	49.6		102	80-120			
Arsenic	50.9	2.98	"	49.6		103	80-120			
DUP (1203296149 D)					Source: 370643001		Prepared: 04/09/2015 Analyzed: 04/13/2015			
Arsenic	8.40	29.9	mg/kg dry		12.9		0-20	42.0	20	J
Barium	48.5	4.98	"		45.2		0-20	7.02	20	
MS (1203296150 S)					Source: 370643001		Prepared: 04/09/2015 Analyzed: 04/13/2015			
Barium	100	5.00	mg/kg dry	50.0	45.2	110	75-125			
Arsenic	61.1	30.0	"	50.0	12.9	96.5	75-125			

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

Justin Solomon
Project Number: 014211290-317
Project: KMG - Badding 2N-26Hz

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 1470428 - SW846 3010A										
MS (1203296135 S)	Source: 370643001				Prepared: 04/10/2015 Analyzed: 04/13/2015					
Arsenic	4.29	0.300	mg/L	5.00	<0.050	85.9	75-125			
TB (1203296136-BLK)					Prepared: 04/10/2015 Analyzed: 04/13/2015					
Arsenic	ND	0.300	mg/L				-			U
BLANK (1203297118-BLK)					Prepared: 04/10/2015 Analyzed: 04/13/2015					
Arsenic	ND	0.300	mg/L				-			U
LCS (1203297119-BKS)					Prepared: 04/10/2015 Analyzed: 04/13/2015					
Arsenic	4.95	0.300	mg/L	5.00		99.1	80-120			
DUP (1203297120 D)	Source: 370643001				Prepared: 04/10/2015 Analyzed: 04/13/2015					
Arsenic	ND	0.300	mg/L		<0.050		0-20	62.2	20	U

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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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