



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

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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  
 Date/time completed: 4/8/15 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: UJA  
 Matrix(s) Received: (Check all that apply): X Soil/Solid      Water      Other:       
 Cooler Number/Temperature: 1 / 2.1 °C      /      °C      /      °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 <sup>(1)</sup> ?	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 <sup>(1)</sup> ?	X			
Was adequate sample volume provided <sup>(1)</sup> ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	X			pt
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	X			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	X			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	X			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	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 <sup>(1)</sup> ? (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):				

<sup>(1)</sup>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.

Jen Pellegrini Reviewed by (Project Manager) 4/8/15 Date/Time Reviewed

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**Off S**

**4/7/2015 1:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**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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**Off E**

**4/7/2015 1:10:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**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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**Off N**  
**4/7/2015 1:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**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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Project: KMG - Badding 2N-26Hz

**Off W**  
**4/7/2015 1:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**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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Jen Pellegrini For Noelle Doyle Mathis, President

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**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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**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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**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	
Diesel (C10-C28)	ND	50	"	"	"	"	"	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	

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
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**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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**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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**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 5D09006 - NO PREP</b>										
<b>Blank (5D09006-BLK1)</b>					Prepared: 04/09/2015 Analyzed: 04/09/2015					
Specific Conductance (EC)	0.00250		mmhos/cm							
<b>Duplicate (5D09006-DUP1)</b>					<b>Source: X504091-05</b> Prepared: 04/09/2015 Analyzed: 04/09/2015					
Specific Conductance (EC)	0.0195		mmhos/cm		0.0187			4.19	25	
<b>Batch 5D09007 - NO PREP</b>										
<b>Duplicate (5D09007-DUP1)</b>					<b>Source: X504091-05</b> Prepared: 04/09/2015 Analyzed: 04/09/2015					
pH	7.71		pH Units		7.69			0.260	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
<b>Batch 1470048 - SW846 3050B</b>										
<b>BLANK (1203296147-BLK)</b>					Prepared: 04/09/2015 Analyzed: 04/13/2015					
Arsenic	ND	2.95	mg/kg				-			U
Barium	ND	0.491	"				-			U
<b>LCS (1203296148-BKS)</b>					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			
<b>DUP (1203296149 D)</b>		<b>Source: 370643001</b>			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	
<b>MS (1203296150 S)</b>		<b>Source: 370643001</b>			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			

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

**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
<b>Batch 1470428 - SW846 3010A</b>										
<b>MS (1203296135 S)</b>										
		<b>Source: 370643001</b>			Prepared: 04/10/2015 Analyzed: 04/13/2015					
Arsenic	4.29	0.300	mg/L	5.00	<0.050	85.9	75-125			
<b>TB (1203296136-BLK)</b>										
					Prepared: 04/10/2015 Analyzed: 04/13/2015					
Arsenic	ND	0.300	mg/L				-			U
<b>BLANK (1203297118-BLK)</b>										
					Prepared: 04/10/2015 Analyzed: 04/13/2015					
Arsenic	ND	0.300	mg/L				-			U
<b>LCS (1203297119-BKS)</b>										
					Prepared: 04/10/2015 Analyzed: 04/13/2015					
Arsenic	4.95	0.300	mg/L	5.00		99.1	80-120			
<b>DUP (1203297120 D)</b>										
		<b>Source: 370643001</b>			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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Jen Pellegrini For Noelle Doyle Mathis, President