



February 17, 2015

LT Environmental, Inc.

Justin Solomon

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - Badding 35N-2Hz

Project Number - 014211290-247

Attached are your analytical results for KMG - Badding 35N-2Hz received by Origins Laboratory, Inc. February 06, 2015. This project is associated with Origins project number X502083-01.

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: 014211290-247
Project: KMG - Badding 35N-2Hz

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pad Comp	X502083-01	Soil	February 6, 2015 15:20	02/06/2015 17:38
Off N	X502083-02	Soil	February 6, 2015 15:10	02/06/2015 17:38
Off E	X502083-03	Soil	February 6, 2015 15:05	02/06/2015 17:38
Off S	X502083-04	Soil	February 6, 2015 15:00	02/06/2015 17:38
Off W	X502083-05	Soil	February 6, 2015 15:15	02/06/2015 17:38
Off Comp	X502083-06	Soil	February 6, 2015 15:15	02/06/2015 17:38

Origins Laboratory, Inc.



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Justin Solomon
Project Number: 014211290-247
Project: KMG - Bidding 35N-2Hz

ORIGINS

LABORATORY, INC

www.originslaboratory.com

XS2083

page 1 of 1

Client: LTE Project Manager: T Solomon

Address: 1600 W 60 AVE Aurora CO 80013 Project Name: KM 4 - BADING 352-242

Telephone Number: 303 433 9788 Project Number: 01421290-247

Email Address: TSolomon@ltenw.com Samples Collected By: PZ

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis					Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	THM 020	CHL, P, C	CHL, P, C	
RD Comp	2/6/15	1520	3	X					X						1
off 2		1510	1	X					X						2
off E		1505	1	X					X						3
off S		1500	1	X					X						4
off W		1515	1	X					X						5
off Comp		1515	2	X					X						6
															7
															8
															9
															10
Requisitioned By: <u>K. Lewis</u>	Date: <u>2/6/15</u>	Time: <u>1630</u>		Received By: <u>[Signature]</u>			Date: <u>2/6/15</u>	Time: <u>1615</u>	Turnaround Time: <u>24 Hr</u> <input checked="" type="checkbox"/> <u>48 Hr</u> <input type="checkbox"/> <u>72 Hr</u> <input type="checkbox"/> <u>Standard</u> <input type="checkbox"/>						
Requisitioned By: <u>[Signature]</u>	Date: <u>2/6/15</u>	Time: <u>1738</u>		Received By: <u>[Signature]</u>			Date: <u>2/6/15</u>	Time: <u>1738</u>	Turnaround Time: <u>24 Hr</u> <input type="checkbox"/> <u>48 Hr</u> <input type="checkbox"/> <u>72 Hr</u> <input type="checkbox"/> <u>Standard</u> <input checked="" type="checkbox"/>						

Date Results Needed

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Origins Laboratory, Inc.

Jeff Pellipini

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

Justin Solomon
Project Number: 014211290-247
Project: KMG - Bidding 35N-2Hz

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: XS02083

Client: LTE

Client Project ID: Bidding 35N-2Hz

Checklist Completed by: Jeff Smith

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

Date/time completed: 2/6/15

Airbill #: NA

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

Cooler Number/Temperature: 1 / 58 °C _____ / _____ °C _____ / _____ °C (Describe)

Thermometer ID: T303

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"/>			
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.

Reviewed by (Project Manager)

02-09-15
Date/Time Reviewed

Origins Laboratory, Inc.

Jeff Pellegrini

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4600 West 60th Avenue
Arvada CO 80003

Justin Solomon
Project Number: 014211290-247
Project: KMG - Badding 35N-2Hz

Pad Comp
2/6/2015 3:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X502083-01 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	5B10008	02/10/2015	02/10/2015
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	119 %	70-130			"	"	"
Surrogate: Toluene-d8	102 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"

pH in Soil by EPA 9045D

pH	6.98		pH Units	1	5B09008	02/09/2015	02/09/2015
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SAR Metals by SW846 3050B/6010C

Calcium	17400	25.0	mg/kg dry	1	1456688	02/10/2015	02/11/2015
Magnesium	1330	30.0	"	"	"	"	"
Sodium	329	25.0	"	"	"	"	"

Sodium Adsorption Ratio

Sodium Adsorption Ratio	0.648		none	1	1458262		02/16/2015
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.308		mmhos/cm	1	5B09009	02/09/2015	02/09/2015
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Origins Laboratory, Inc.



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Arvada CO 80003

Justin Solomon
Project Number: 014211290-247
Project: KMG - Badding 35N-2Hz

Pad Comp**2/6/2015 3:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X502083-01 (Soil)**TCLP Metals by 1311/3010A/6010C**

Arsenic	ND	0.300	mg/L	1	1456967	02/11/2015	02/11/2015	U
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Total Metals by SW846 3050B/6010C

Arsenic	3.45	3.00	mg/kg dry	1	1456689	02/10/2015	02/11/2015	
Barium	1450	0.499	"	"	"	"	"	

TPH-Carbon Chain by EPA Method 8015C

Gasoline (C6-C10)	ND	50	mg/kg	1	5B09002	02/09/2015	02/09/2015	
Diesel (C10-C28)	ND	50	"	"	"	"	"	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	

Surrogate: o-Terphenyl	80.9 %	65-146			"	"	"	
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LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

Justin Solomon

Project Number: 014211290-247

Project: KMG - Badding 35N-2Hz

Off N

2/6/2015 3:10:00PM

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit						

GEL Laboratories, LLC

X502083-02 (Soil)

Total Metals by SW846 3050B/6010C

Arsenic	2.15	2.91	mg/kg dry	1	1456689	02/10/2015	02/11/2015	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: 014211290-247
Project: KMG - Badding 35N-2Hz

Off E

2/6/2015 3:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X502083-03 (Soil)

Total Metals by SW846 3050B/6010C

Arsenic	1.51	3.00	mg/kg dry	1	1456689	02/10/2015	02/11/2015	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: 014211290-247

Project: KMG - Badding 35N-2Hz

Off S

2/6/2015 3:00:00PM

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit						

GEL Laboratories, LLC

X502083-04 (Soil)

Total Metals by SW846 3050B/6010C

Arsenic	3.29	3.03	mg/kg dry	1	1456689	02/10/2015	02/11/2015
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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: 014211290-247

Project: KMG - Badding 35N-2Hz

Off W

2/6/2015 3:15:00PM

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit						

GEL Laboratories, LLC

X502083-05 (Soil)

Total Metals by SW846 3050B/6010C

Arsenic	1.65	3.16	mg/kg dry	1	1456689	02/10/2015	02/11/2015	J
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Arvada CO 80003

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Project Number: 014211290-247
Project: KMG - Badding 35N-2Hz

Off Comp
2/6/2015 3:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X502083-06 (Soil)

pH in Soil by EPA 9045D

pH	7.55		pH Units	1	5B09008	02/09/2015	02/09/2015
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SAR Metals by SW846 3050B/6010C

Calcium	939	24.8	mg/kg dry	1	1456688	02/10/2015	02/11/2015
Magnesium	753	29.7	"	"	"	"	"
Sodium	28.7	24.8	"	"	"	"	"

Sodium Adsorption Ratio

Sodium Adsorption Ratio	0.169		none	1	1458262		02/16/2015
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0823		mmhos/cm	1	5B09009	02/09/2015	02/09/2015
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Total Metals by SW846 3050B/6010C

Arsenic	2.34	2.97	mg/kg dry	1	1456689	02/10/2015	02/11/2015	J
Barium	46.6	0.496	"	"	"	"	"	

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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 5B10008 - EPA 5030 (soil)

Blank (5B10008-BLK1)

Prepared: 02/10/2015 Analyzed: 02/10/2015

Benzene	ND	0.002	mg/kg							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	70		ug/kg	62.5	111		70-130			
Surrogate: Toluene-d8	62		"	62.5	99.9		70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5	103		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 5B10008 - EPA 5030 (soil)

LCS (5B10008-BS1)

Prepared: 02/10/2015 Analyzed: 02/10/2015

Benzene	0.102	0.002	mg/kg	0.100	102	77.1-124
Toluene	0.103	0.002	"	0.100	103	74.5-128
Ethylbenzene	0.101	0.002	"	0.100	101	66.4-127
m,p-Xylene	0.213	0.004	"	0.200	106	76.6-124
o-Xylene	0.103	0.002	"	0.100	103	76.6-124
Surrogate: 1,2-Dichloroethane-d4	69		ug/kg	62.5	110	70-130
Surrogate: Toluene-d8	63		"	62.5	100	70-130
Surrogate: 4-Bromofluorobenzene	66		"	62.5	106	70-130

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Project: KMG - Badding 35N-2Hz

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 5B10008 - EPA 5030 (soil)

Matrix Spike (5B10008-MS1)		Source: X502083-01			Prepared: 02/10/2015 Analyzed: 02/10/2015					
Benzene	0.099	0.002	mg/kg	0.100	ND	99.1	71.8-126			
Toluene	0.094	0.002	"	0.100	ND	93.6	65.1-130			
Ethylbenzene	0.090	0.002	"	0.100	ND	89.8	62.2-130			
m,p-Xylene	0.183	0.004	"	0.200	ND	91.4	46.5-137			
o-Xylene	0.093	0.002	"	0.100	ND	92.9	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	72		ug/kg	62.5		116	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.8	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 5B10008 - EPA 5030 (soil)

Matrix Spike Dup (5B10008-MSD1)		Source: X502083-01			Prepared: 02/10/2015 Analyzed: 02/10/2015					
Benzene	0.078	0.002	mg/kg	0.100	ND	77.5	71.8-126	24.5	11.3	QR-03
Toluene	0.068	0.002	"	0.100	ND	67.6	65.1-130	32.2	15.4	QR-03
Ethylbenzene	0.068	0.002	"	0.100	ND	68.1	62.2-130	27.5	19.6	QR-03
m,p-Xylene	0.125	0.004	"	0.200	ND	62.6	46.5-137	37.4	19.2	QR-03
o-Xylene	0.068	0.002	"	0.100	ND	68.2	54.2-134	30.8	17.9	QR-03
Surrogate: 1,2-Dichloroethane-d4	70		ug/kg	62.5		112	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.6	70-130			

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Project Number: 014211290-247
Project: KMG - Badding 35N-2Hz

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 5B09002 - EPA 3580

Blank (5B09002-BLK1)

Prepared: 02/09/2015 Analyzed: 02/09/2015

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

Surrogate: o-Terphenyl

44.3

"

50.0

88.5

65-146

LCS (5B09002-BS1)

Prepared: 02/09/2015 Analyzed: 02/09/2015

Gasoline (C6-C10)	900	50	mg/kg	1000	90.5	66.7-119
Diesel (C10-C28)	960	50	"	1000	95.5	70.1-127
Residual Range Organics (C28-C36)	1000	200	"	1000	104	54.5-139

Surrogate: o-Terphenyl

53.1

"

50.0

106

65-146

Matrix Spike (5B09002-MS1)

Source: X502069-01

Prepared: 02/09/2015 Analyzed: 02/09/2015

Gasoline (C6-C10)	890	50	mg/kg	1000	25	86.7	56.4-132
Diesel (C10-C28)	940	50	"	1000	19	92.3	57.4-138
Residual Range Organics (C28-C36)	1000	200	"	1000	18	98.9	47.7-129

Surrogate: o-Terphenyl

51.0

"

50.0

102

65-146

Matrix Spike Dup (5B09002-MSD1)

Source: X502069-01

Prepared: 02/09/2015 Analyzed: 02/09/2015

Gasoline (C6-C10)	830	50	mg/kg	1000	25	81.0	56.4-132	6.60	22
Diesel (C10-C28)	910	50	"	1000	19	89.1	57.4-138	3.52	18.3
Residual Range Organics (C28-C36)	1000	200	"	1000	18	98.0	47.7-129	0.959	30.1

Surrogate: o-Terphenyl

50.7

"

50.0

101

65-146

Origins Laboratory, Inc.



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Justin Solomon
Project Number: 014211290-247
Project: KMG - Badding 35N-2Hz

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 5B09008 - NO PREP										
Duplicate (5B09008-DUP1)		Source: X502080-01			Prepared: 02/09/2015 Analyzed: 02/09/2015					
pH	7.27		pH Units		7.29			0.275	25	
Batch 5B09009 - NO PREP										
Blank (5B09009-BLK1)		Prepared: 02/09/2015 Analyzed: 02/09/2015								
Specific Conductance (EC)	0.00280		mmhos/cm							
Duplicate (5B09009-DUP1)		Source: X502080-01			Prepared: 02/09/2015 Analyzed: 02/09/2015					
Specific Conductance (EC)	0.0173		mmhos/cm		0.0185			6.70	25	

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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 1456967 - SW846 3010A										
MS (1203261754 S)		Source: 366775001			Prepared: 02/11/2015 Analyzed: 02/11/2015					
Arsenic	4.40	0.300	mg/L	5.00	<0.050	87.3	75-125			
TB (1203261755-BLK)					Prepared: 02/11/2015 Analyzed: 02/11/2015					
Arsenic	ND	0.300	mg/L				-			U
BLANK (1203262607-BLK)					Prepared: 02/11/2015 Analyzed: 02/11/2015					
Arsenic	ND	0.300	mg/L				-			U
LCS (1203262608-BKS)					Prepared: 02/11/2015 Analyzed: 02/11/2015					
Arsenic	4.76	0.300	mg/L	5.00		95.2	80-120			
DUP (1203262609 D)		Source: 366775001			Prepared: 02/11/2015 Analyzed: 02/11/2015					
Arsenic	ND	0.300	mg/L		<0.050		0-20	NR	20	U

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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

Justin Solomon
Project Number: 014211290-247
Project: KMG - Badding 35N-2Hz

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 1456689 - SW846 3050B										
BLANK (1203261837-BLK)					Prepared: 02/10/2015 Analyzed: 02/11/2015					
Arsenic	ND	2.90	mg/kg				-			U
Barium	ND	0.483	"				-			U
LCS (1203261838-BKS)					Prepared: 02/10/2015 Analyzed: 02/11/2015					
Arsenic	49.8	2.87	mg/kg	47.8		104	80-120			
Barium	48.8	0.478	"	47.8		102	80-120			
DUP (1203261839 D)					Source: 366775001		Prepared: 02/10/2015 Analyzed: 02/11/2015			
Arsenic	4.22	3.38	mg/kg dry		4.11		0-20	2.79	20	
Barium	2320	2.81	"		1970		0-20	16.4	20	
MS (1203261840 S)					Source: 366775001		Prepared: 02/10/2015 Analyzed: 02/12/2015			
Barium	1710	2.73	mg/kg dry	54.6	1970	0	75-125			
Arsenic	58.3	3.28	"	54.6	4.11	99.3	75-125			

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4600 West 60th Avenue

Arvada CO 80003

Justin Solomon

Project Number: 014211290-247

Project: KMG - Badding 35N-2Hz

Notes and Definitions

U Result not detected above the detection limit

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

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.

Origins Laboratory, Inc.



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