



February 26, 2015

LT Environmental, Inc.

Justin Solomon

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Howard 9C-22Hz

Project Number - 014211290-327

Attached are your analytical results for KMG - Howard 9C-22Hz received by Origins Laboratory, Inc. February 17, 2015. This project is associated with Origins project number X502198-01.

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: 014211290-327
Project: KMG - Howard 9C-22Hz

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Off S	X502198-01	Soil	February 12, 2015 13:50	02/17/2015 16:45
Off E	X502198-02	Soil	February 12, 2015 13:55	02/17/2015 16:45
Off N	X502198-03	Soil	February 12, 2015 14:00	02/17/2015 16:45
Off W	X502198-04	Soil	February 12, 2015 14:05	02/17/2015 16:45
Off Comp	X502198-05	Soil	February 12, 2015 14:10	02/17/2015 16:45
Pad Comp	X502198-06	Soil	February 12, 2015 14:15	02/17/2015 16:45

Origins Laboratory, Inc.



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Noelle Doyle Mathis, President

Justin Solomon
Project Number: 014211290-327
Project: KMG - Howard 9C-22Hz

ORIGINS LABORATORY, INC.		WWW.ORIGINS-ENVIRONMENTAL.COM	
Client: LT Environmental Inc.		page 1 of 1	
Address: 4600 W. 60th Ave Arvada CO 80002		Project Manager: Justin Solomon	
Telephone Number: 303.433.7988		Project Name: KMG - LOW422 9C-22H2	
Email Address: jsolomon@ltenv.com		Project Number: 014211290-327	
		Samples Collected By: RZ	

[illegible]

Date Results Needed

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Origins Laboratory, Inc.

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Justin Solomon
Project Number: 014211290-327
Project: KMG - Howard 9C-22Hz

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: XS2198

Client: LTE

Client Project ID: Howard 9C-22Hz

Checklist Completed by: Jeff Smith

Shipped Via: H/D-CARRIER
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2/15/15

Airbill #: NA

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

Cooler Number/Temperature: 1 / 0.3 °C 1 / _____ °C 1 / _____ °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 ⁽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)		Y		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		Y		
Were all samples received intact ⁽¹⁾ ?	Y			
Was adequate sample volume provided ⁽¹⁾ ?	Y			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	X			PH
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
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⁾ ?	2/15/15 X	X		off E, off W, off N
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	1			
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): Confirmed by email with Ryan Z. to use sample times off as Sample Containers to match with COC.				
2/15/15				

⁽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)

Date/Time Reviewed: 02-19-15

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Justin Solomon

Project Number: 014211290-327

Project: KMG - Howard 9C-22Hz

Off S

2/12/2015 1:50:00PM

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit						

GEL Laboratories, LLC

X502198-01 (Soil)

Total Metals by SW846 3050B/6010C

Arsenic	6.66	3.44	mg/kg dry	1	1458943	02/19/2015	02/20/2015
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Origins Laboratory, Inc.



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4600 West 60th Avenue

Arvada CO 80003

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Project Number: 014211290-327

Project: KMG - Howard 9C-22Hz

Off E

2/12/2015 1:55:00PM

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit						

GEL Laboratories, LLC

X502198-02 (Soil)

Total Metals by SW846 3050B/6010C

Arsenic	6.51	3.21	mg/kg dry	1	1458943	02/19/2015	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: 014211290-327

Project: KMG - Howard 9C-22Hz

Off N

2/12/2015 2:00:00PM

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit						

GEL Laboratories, LLC

X502198-03 (Soil)

Total Metals by SW846 3050B/6010C

Arsenic	7.21	3.69	mg/kg dry	1	1458943	02/19/2015	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: 014211290-327

Project: KMG - Howard 9C-22Hz

Off W

2/12/2015 2:05:00PM

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit						

GEL Laboratories, LLC

X502198-04 (Soil)

Total Metals by SW846 3050B/6010C

Arsenic	7.37	3.43	mg/kg dry	1	1458943	02/19/2015	02/20/2015
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Arvada CO 80003

Justin Solomon

Project Number: 014211290-327

Project: KMG - Howard 9C-22Hz

Off Comp

2/12/2015 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. X502198-05 (Soil)

pH in Soil by EPA 9045D

pH	8.17		pH Units	1	5B18008	02/18/2015	02/18/2015
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SAR Metals by SW846 3050B/6010C

Calcium	23700	29.2	mg/kg dry	1	1458944	02/19/2015	02/20/2015
Magnesium	4530	35.0	"	"	"	"	"
Sodium	136	29.2	"	"	"	"	"

Sodium Adsorption Ratio

Sodium Adsorption Ratio	0.212		none	1	1459665		02/24/2015
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.111		mmhos/cm	1	5B18007	02/18/2015	02/18/2015
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Total Metals by SW846 3050B/6010C

Arsenic	6.33	3.50	mg/kg dry	1	1458943	02/19/2015	02/20/2015
Barium	251	0.583	"	"	"	"	"

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Pad Comp

2/12/2015 2:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. X502198-06 (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

109 %

70-130

"

"

"

Surrogate: Toluene-d8

115 %

70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

93.5 %

70-130

"

"

"

pH in Soil by EPA 9045D

pH	8.35		pH Units	1	5B18008	02/18/2015	02/18/2015
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SAR Metals by SW846 3050B/6010C

Calcium	33300	24.6	mg/kg dry	1	1458944	02/19/2015	02/20/2015
Magnesium	4750	29.5	"	"	"	"	"
Sodium	718	24.6	"	"	"	"	"

Sodium Adsorption Ratio

Sodium Adsorption Ratio	0.974		none	1	1459665		02/24/2015
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.309		mmhos/cm	1	5B18007	02/18/2015	02/18/2015
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Pad Comp

2/12/2015 2:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X502198-06 (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	6.44	2.95	mg/kg dry	1	1458943	02/19/2015	02/20/2015	
Barium	1680	0.492	"	"	"	"	"	

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	95.1 %	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 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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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: KMG - Howard 9C-22Hz

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

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Project Number: 014211290-327
Project: KMG - Howard 9C-22Hz

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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Project: KMG - Howard 9C-22Hz

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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Project Number: 014211290-327

Project: KMG - Howard 9C-22Hz

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 1458943 - SW846 3050B										
BLANK (1203267998-BLK)					Prepared: 02/19/2015 Analyzed: 02/20/2015					
Barium	ND	0.488	mg/kg				-			U
Arsenic	ND	2.93	"				-			U
LCS (1203267999-BKS)					Prepared: 02/19/2015 Analyzed: 02/20/2015					
Barium	51.7	0.499	mg/kg	49.9		104	80-120			
Arsenic	52.9	2.99	"	49.9		106	80-120			
DUP (1203268000 D)					Source: X502198-01		Prepared: 02/19/2015 Analyzed: 02/20/2015			
Arsenic	5.56	3.42	mg/kg dry		6.66		0-20	18.1	20	
Barium	222	0.570	"		230		0-20	3.41	20	
MS (1203268001 S)					Source: X502198-01		Prepared: 02/19/2015 Analyzed: 02/20/2015			
Barium	283	0.573	mg/kg dry	57.3	230	92.6	75-125			
Arsenic	65.4	3.44	"	57.3	6.66	102	75-125			

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: 014211290-327

Project: KMG - Howard 9C-22Hz

Notes and Definitions

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.

Origins Laboratory, Inc.



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Noelle Doyle Mathis, President