



February 24, 2015

LT Environmental, Inc.

Justin Solomon

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Ecosponge

Project Number - 014211290-0392

Attached are your analytical results for KMG - Ecosponge received by Origins Laboratory, Inc. January 22, 2015. This project is associated with Origins project number X501227-01.

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: 014211290-0392
Project: KMG - Ecosponge

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pad Comp	X501227-01	Soil	January 21, 2015 12:10	01/22/2015 08:35
Off N	X501227-02	Soil	January 21, 2015 12:35	01/22/2015 08:35
Off E	X501227-03	Soil	January 21, 2015 12:15	01/22/2015 08:35
Off S	X501227-04	Soil	January 21, 2015 12:20	01/22/2015 08:35
Off W	X501227-05	Soil	January 21, 2015 12:25	01/22/2015 08:35
Off Comp	X501227-06	Soil	January 21, 2015 12:45	01/22/2015 08:35

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Justin Solomon
 Project Number: 014211290-0392
 Project: KMG - Ecosponge

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: XS0227

Client: LTE

Client Project ID: Ecosponge - 0392

Checklist Completed by: Jeff Smith

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

Date/time completed: 1/22/15

Airbill #: NA

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

Cooler Number/Temperature: 1 / 1.3 °C 1 °C 1 °C 1 °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"/>			
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"/>			Ph
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"/>	Soil
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	Soil
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) J.P. Smith

Date/Time Reviewed 1/23/15 11:30

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Justin Solomon
 Project Number: 014211290-0392
 Project: KMG - Ecosponge

Pad Comp

1/21/2015 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X501227-01 (Soil)

BTEX by EPA 8260C

Benzene	ND		0.002	mg/kg	1	5A23005	01/23/2015	01/23/2015	
Toluene	ND		0.002	"	"	"	"	"	
Ethylbenzene	ND		0.002	"	"	"	"	"	
Xylenes, total	ND		0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	100 %		70-130			"	"	"	
Surrogate: Toluene-d8	101 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

pH in Soil by EPA 9045D

pH	7.82			pH Units	1	5A26006	01/26/2015	01/26/2015	
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SAR Metals by SW846 3050B/6010C

Calcium	547	8.38	26.2	mg/kg dry	1	1452578	01/23/2015	01/26/2015	
Magnesium	438	8.90	31.4	"	"	"	"	"	
Sodium	12.8	7.33	26.2	"	"	"	"	"	J

Sodium Adsorption Ratio

Sodium Adsorption Ratio	0.0994			none	1	1453641		01/28/2015	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Justin Solomon
 Project Number: 014211290-0392
 Project: KMG - Ecosponge

Pad Comp

1/21/2015 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X501227-01 (Soil)

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0786			mmhos/cm	1	5A26007	01/26/2015	01/26/2015	
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TCLP Metals by 1311/3010A/6010C

Arsenic	ND	0.050	0.300	mg/L	1	1453172	01/27/2015	01/27/2015	U
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Total Metals by SW846 3050B/6010C

Arsenic	1.13	0.523	3.14	mg/kg dry	1	1452577	01/23/2015	01/26/2015	J
Barium	23.0	0.105	0.523	"	"	"	"	"	

TPH-Carbon Chain by EPA Method 8015C

Gasoline (C6-C10)	23	17	50	mg/kg	1	5A23006	01/23/2015	01/23/2015	
Diesel (C10-C28)	20	13	50	"	"	"	"	"	
Residual Range Organics (C28-C36)	24	4.6	200	"	"	"	"	"	

Surrogate: o-Terphenyl	91.8 %		65-146			"	"	"	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Justin Solomon
Project Number: 014211290-0392
Project: KMG - Ecosponge

Off N

1/21/2015 12:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X501227-02 (Soil)

Total Metals by SW846 3050B/6010C

Arsenic	1.02	0.508	3.05	mg/kg dry	1	1452577	01/23/2015	01/26/2015	J
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Justin Solomon
Project Number: 014211290-0392
Project: KMG - Ecosponge

Off E

1/21/2015 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X501227-03 (Soil)

Total Metals by SW846 3050B/6010C

Arsenic	1.22	0.502	3.01	mg/kg dry	1	1452577	01/23/2015	01/26/2015	J
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Justin Solomon
Project Number: 014211290-0392
Project: KMG - Ecosponge

Off S

1/21/2015 12:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X501227-04 (Soil)

Total Metals by SW846 3050B/6010C

Arsenic	1.70	0.495	2.97	mg/kg dry	1	1452577	01/23/2015	01/26/2015	J
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Justin Solomon
Project Number: 014211290-0392
Project: KMG - Ecosponge

Off W

1/21/2015 12:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X501227-05 (Soil)

Total Metals by SW846 3050B/6010C

Arsenic	1.61	0.506	3.04	mg/kg dry	1	1452577	01/23/2015	01/26/2015	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: 014211290-0392
 Project: KMG - Ecosponge

Off Comp

1/21/2015 12:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X501227-06 (Soil)

pH in Soil by EPA 9045D

pH	7.97			pH Units	1	5A26006	01/26/2015	01/26/2015	
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SAR Metals by SW846 3050B/6010C

Calcium	677	8.35	26.1	mg/kg dry	1	1452578	01/23/2015	01/26/2015	
Magnesium	495	8.87	31.3	"	"	"	"	"	
Sodium	41.8	7.30	26.1	"	"	"	"	"	

Sodium Adsorption Ratio

Sodium Adsorption Ratio	0.298			none	1	1453641		01/28/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0135			mmhos/cm	1	5A26007	01/26/2015	01/26/2015	
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Total Metals by SW846 3050B/6010C

Arsenic	1.19	0.522	3.13	mg/kg dry	1	1452577	01/23/2015	01/26/2015	J
Barium	26.4	0.104	0.522	"	"	"	"	"	

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 Project: KMG - Ecosponge

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 5A23005 - EPA 5030 (soil)

Blank (5A23005-BLK1)

Prepared: 01/23/2015 Analyzed: 01/23/2015

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	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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Justin Solomon
 Project Number: 014211290-0392
 Project: KMG - Ecosponge

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 5A23005 - EPA 5030 (soil)

LCS (5A23005-BS1)

Prepared: 01/23/2015 Analyzed: 01/23/2015

Benzene	0.082	0.002	mg/kg	0.100		81.9	77.1-124			
Toluene	0.082	0.002	"	0.100		82.2	74.5-128			
Ethylbenzene	0.094	0.002	"	0.100		94.0	66.4-127			
m,p-Xylene	0.188	0.004	"	0.200		93.8	76.6-124			
o-Xylene	0.091	0.002	"	0.100		91.4	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

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 Project Number: 014211290-0392
 Project: KMG - Ecosponge

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 5A23005 - EPA 5030 (soil)

Matrix Spike (5A23005-MS1)	Source: X501227-01			Prepared: 01/23/2015 Analyzed: 01/23/2015						
Benzene	0.096	0.002	mg/kg	0.100	ND	96.1	71.8-126			
Toluene	0.097	0.002	"	0.100	ND	97.5	65.1-130			
Ethylbenzene	0.104	0.002	"	0.100	ND	104	62.2-130			
m,p-Xylene	0.210	0.004	"	0.200	ND	105	46.5-137			
o-Xylene	0.104	0.002	"	0.100	ND	104	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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 Arvada CO 80003

Justin Solomon
 Project Number: 014211290-0392
 Project: KMG - Ecosponge

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 5A23005 - EPA 5030 (soil)

Matrix Spike Dup (5A23005-MSD1)	Source: X501227-01			Prepared: 01/23/2015 Analyzed: 01/23/2015						
Benzene	0.101	0.002	mg/kg	0.100	ND	101	71.8-126	5.21	11.3	
Toluene	0.102	0.002	"	0.100	ND	102	65.1-130	4.83	15.4	
Ethylbenzene	0.112	0.002	"	0.100	ND	112	62.2-130	7.20	19.6	
m,p-Xylene	0.218	0.004	"	0.200	ND	109	46.5-137	3.48	19.2	
o-Xylene	0.109	0.002	"	0.100	ND	109	54.2-134	4.72	17.9	
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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 Project: KMG - Ecosponge

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 5A23006 - EPA 3580

Blank (5A23006-BLK1)

Prepared: 01/23/2015 Analyzed: 01/23/2015

Gasoline (C6-C10)	23	50	mg/kg							
Diesel (C10-C28)	18	50	"							
Residual Range Organics (C28-C36)	20	200	"							

Surrogate: o-Terphenyl 50.9 " 50.0 102 65-146

LCS (5A23006-BS1)

Prepared: 01/23/2015 Analyzed: 01/23/2015

Gasoline (C6-C10)	850	50	mg/kg	1000		84.5	66.7-119			
Diesel (C10-C28)	900	50	"				70.1-127			
Residual Range Organics (C28-C36)	1000	200	"	1000		103	54.5-139			

Surrogate: o-Terphenyl 49.2 " 50.0 98.4 65-146

Matrix Spike (5A23006-MS1)

Source: X501227-01

Prepared: 01/23/2015 Analyzed: 01/23/2015

Gasoline (C6-C10)	820	50	mg/kg	1000	23	79.6	56.4-132			
Diesel (C10-C28)	850	50	"		20		57.4-138			
Residual Range Organics (C28-C36)	1000	200	"	1000	24	98.0	47.7-129			

Surrogate: o-Terphenyl 45.1 " 50.0 90.2 65-146

Matrix Spike Dup (5A23006-MSD1)

Source: X501227-01

Prepared: 01/23/2015 Analyzed: 01/23/2015

Gasoline (C6-C10)	850	50	mg/kg	1000	23	82.5	56.4-132	3.45	22	
Diesel (C10-C28)	900	50	"		20		57.4-138	5.34	18.3	
Residual Range Organics (C28-C36)	1000	200	"	1000	24	99.0	47.7-129	1.02	30.1	

Surrogate: o-Terphenyl 47.0 " 50.0 94.0 65-146

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 4600 West 60th Avenue
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Justin Solomon
 Project Number: 014211290-0392
 Project: KMG - Ecosponge

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 5A26006 - NO PREP										
Duplicate (5A26006-DUP1)		Source: X501227-01			Prepared: 01/26/2015 Analyzed: 01/26/2015					
pH	7.78		pH Units		7.82			0.462	25	
Batch 5A26007 - NO PREP										
Blank (5A26007-BLK1)		Prepared: 01/26/2015 Analyzed: 01/26/2015								
Specific Conductance (EC)	0.00240		mmhos/cm							
Duplicate (5A26007-DUP1)		Source: X501227-01			Prepared: 01/26/2015 Analyzed: 01/26/2015					
Specific Conductance (EC)	0.0837		mmhos/cm		0.0786			6.28	25	

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Justin Solomon
 Project Number: 014211290-0392
 Project: KMG - Ecosponge

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 1453172 - SW846 3010A										
MS (1203250487 S)										
			Source: 365674001			Prepared: 01/27/2015 Analyzed: 01/27/2015				
Arsenic	4.79	0.300	mg/L	5.00	<0.050	95.9	75-125			
TB (1203250488-BLK)										
						Prepared: 01/27/2015 Analyzed: 01/27/2015				
Arsenic	ND	0.300	mg/L				-			U
BLANK (1203252163-BLK)										
						Prepared: 01/27/2015 Analyzed: 01/27/2015				
Arsenic	ND	0.300	mg/L				-			U
LCS (1203252164-BKS)										
						Prepared: 01/27/2015 Analyzed: 01/27/2015				
Arsenic	4.63	0.300	mg/L	5.00		92.6	80-120			
DUP (1203252165 D)										
			Source: 365674001			Prepared: 01/27/2015 Analyzed: 01/27/2015				
Arsenic	ND	0.300	mg/L		<0.050		0-20	42.6	20	U

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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: 014211290-0392
 Project: KMG - Ecosponge

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 1452577 - SW846 3050B										
BLANK (1203250610-BLK)					Prepared: 01/23/2015 Analyzed: 01/26/2015					
Arsenic	ND	2.97	mg/kg				-			U
Barium	ND	0.495	"				-			U
LCS (1203250611-BKS)					Prepared: 01/23/2015 Analyzed: 01/26/2015					
Arsenic	49.7	3.00	mg/kg	50.0		99.3	80-120			
Barium	50.6	0.500	"	50.0		101	80-120			
DUP (1203250612 D)		Source: X501227-01			Prepared: 01/23/2015 Analyzed: 01/26/2015					
Barium	26.2	0.510	mg/kg dry		23.0		0-20	13.0	20	
Arsenic	1.53	3.06	"		1.13		0-20	30.4	20	J
MS (1203250613 S)		Source: X501227-01			Prepared: 01/23/2015 Analyzed: 01/26/2015					
Arsenic	50.9	3.03	mg/kg dry	50.4	1.13	98.7	75-125			
Barium	74.1	0.504	"	50.4	23.0	101	75-125			

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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 on a wet weight basis.

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