



January 27, 2015

LT Environmental, Inc.

Justin Solomon

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Ecosponge

Project Number - 014211290-0323

Attached are your analytical results for KMG - Ecosponge received by Origins Laboratory, Inc. January 21, 2015. This project is associated with Origins project number X501211-01.

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: 014211290-0323  
Project: KMG - Ecosponge

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pad Comp	X501211-01	Soil	January 20, 2015 10:35	01/21/2015 08:24
Off N	X501211-02	Soil	January 20, 2015 10:40	01/21/2015 08:24
Off E	X501211-03	Soil	January 20, 2015 10:45	01/21/2015 08:24
Off S	X501211-04	Soil	January 20, 2015 10:48	01/21/2015 08:24
Off W	X501211-05	Soil	January 20, 2015 10:50	01/21/2015 08:24
Off Comp	X501211-06	Soil	January 20, 2015 10:55	01/21/2015 08:24

Origins Laboratory, Inc.



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LT Environmental, Inc.  
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 Arvada CO 80003

Justin Solomon  
 Project Number: 014211290-0323  
 Project: KMG - Ecosponge

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X5011211

Client: LTE

Client Project ID: KMG Ecosponge 014211290-323

Checklist Completed by: gok

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

Date/time completed: gok 1/24/15 @ 0829

Airbill #: N/A

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

Cooler Number/Temperature: 14.1 °C / \_\_\_\_\_ °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> ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			<u>Blue ICE</u>
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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<u>1/21/13</u>		<u>PH</u>
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <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 HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / ( pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
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.

[Signature]  
 Reviewed by (Project Manager)

01-22-15 1646  
 Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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 4600 West 60th Avenue  
 Arvada CO 80003

Justin Solomon  
 Project Number: 014211290-0323  
 Project: KMG - Ecosponge

**Pad Comp**  
**1/20/2015 10:35:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X501211-01 (Soil)**

**BTEX by EPA 8260C**

Benzene	ND	0.002	mg/kg	1	5A22005	01/22/2015	01/23/2015	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.0 %	70-130			"	"	"	

**pH in Soil by EPA 9045D**

pH	8.37		pH Units	1	5A22008	01/22/2015	01/23/2015	
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**SAR Metals by SW846 3050B/6010C**

Calcium	5120	27.3	mg/kg dry	1	1452115	01/22/2015	01/23/2015	
Magnesium	1320	32.8	"	"	"	"	"	
Sodium	47.5	27.3	"	"	"	"	"	

**Sodium Adsorption Ratio**

Sodium Adsorption Ratio	0.153		none	1	1453326		01/27/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.123		mmhos/cm	1	5A22007	01/22/2015	01/23/2015	
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 Project: KMG - Ecosponge

**Pad Comp**  
**1/20/2015 10:35:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X501211-01 (Soil)**

**TCLP Metals by 1311/3010A/6010C**

Arsenic	ND	0.300	mg/L	1	1452401	01/23/2015	01/26/2015	U
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**Total Metals by SW846 3050B/6010C**

Arsenic	2.39	3.28	mg/kg dry	1	1452114	01/22/2015	01/23/2015	J
Barium	1060	0.547	"	"	"	"	"	

**TPH-Carbon Chain by EPA Method 8015C**

Gasoline (C6-C10)	ND	50	mg/kg	1	5A22006	01/22/2015	01/23/2015	
Diesel (C10-C28)	100	50	"	"	"	"	"	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	

Surrogate: o-Terphenyl	68.6 %	65-146			"	"	"	
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**Off N**

**1/20/2015 10:40:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**X501211-02 (Soil)**

**Total Metals by SW846 3050B/6010C**

Arsenic	2.50	3.01	mg/kg dry	1	1452114	01/22/2015	01/23/2015	J
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Origins Laboratory, Inc.



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Justin Solomon  
Project Number: 014211290-0323  
Project: KMG - Ecosponge

**Off E**

**1/20/2015 10:45:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**X501211-03 (Soil)**

**Total Metals by SW846 3050B/6010C**

Arsenic	3.00	3.21	mg/kg dry	1	1452114	01/22/2015	01/23/2015	J
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Origins Laboratory, Inc.



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Arvada CO 80003

Justin Solomon  
Project Number: 014211290-0323  
Project: KMG - Ecosponge

**Off S**

**1/20/2015 10:48:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**X501211-04 (Soil)**

**Total Metals by SW846 3050B/6010C**

Arsenic	1.35	3.10	mg/kg dry	1	1452114	01/22/2015	01/23/2015	J
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Origins Laboratory, Inc.



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Off W

1/20/2015 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
X501211-05 (Soil)

**Total Metals by SW846 3050B/6010C**

Arsenic	1.43	3.20	mg/kg dry	1	1452114	01/22/2015	01/23/2015	J
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 Project: KMG - Ecosponge

**Off Comp**  
**1/20/2015 10:55:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X501211-06 (Soil)**

**pH in Soil by EPA 9045D**

pH	8.76		pH Units	1	5A22008	01/22/2015	01/23/2015	
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**SAR Metals by SW846 3050B/6010C**

Calcium	6810	27.7	mg/kg dry	1	1452115	01/22/2015	01/23/2015	
Magnesium	1490	33.2	"	"	"	"	"	
Sodium	43.4	27.7	"	"	"	"	"	

**Sodium Adsorption Ratio**

Sodium Adsorption Ratio	0.124		none	1	1453326		01/27/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.0590		mmhos/cm	1	5A22007	01/22/2015	01/23/2015	
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**Total Metals by SW846 3050B/6010C**

Arsenic	1.89	3.32	mg/kg dry	1	1452114	01/22/2015	01/23/2015	J
Barium	153	0.554	"	"	"	"	"	

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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 5A22005 - EPA 5030 (soil)**

**Blank (5A22005-BLK1)**

Prepared: 01/22/2015 Analyzed: 01/22/2015

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		96.6	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.4	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 5A22005 - EPA 5030 (soil)**

**LCS (5A22005-BS1)**

Prepared: 01/22/2015 Analyzed: 01/22/2015

Benzene	0.097	0.002	mg/kg	0.100		96.8	77.1-124			
Toluene	0.098	0.002	"	0.100		98.4	74.5-128			
Ethylbenzene	0.110	0.002	"	0.100		110	66.4-127			
m,p-Xylene	0.214	0.004	"	0.200		107	76.6-124			
o-Xylene	0.103	0.002	"	0.100		103	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		98.5	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.1	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 5A22005 - EPA 5030 (soil)

Matrix Spike (5A22005-MS1)	Source: X501205-01			Prepared: 01/22/2015 Analyzed: 01/22/2015						
Benzene	0.082	0.002	mg/kg	0.100	ND	82.4	71.8-126			
Toluene	0.085	0.002	"	0.100	ND	85.5	65.1-130			
Ethylbenzene	0.090	0.002	"	0.100	ND	90.3	62.2-130			
m,p-Xylene	0.177	0.004	"	0.200	ND	88.7	46.5-137			
o-Xylene	0.087	0.002	"	0.100	ND	87.1	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.8	70-130			

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 Project Number: 014211290-0323  
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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 5A22005 - EPA 5030 (soil)**

<b>Matrix Spike Dup (5A22005-MSD1)</b>	<b>Source: X501205-01</b>			<b>Prepared: 01/22/2015 Analyzed: 01/22/2015</b>						
Benzene	0.086	0.002	mg/kg	0.100	ND	86.1	71.8-126	4.42	11.3	
Toluene	0.087	0.002	"	0.100	ND	86.7	65.1-130	1.46	15.4	
Ethylbenzene	0.092	0.002	"	0.100	ND	92.1	62.2-130	1.97	19.6	
m,p-Xylene	0.184	0.004	"	0.200	ND	92.0	46.5-137	3.60	19.2	
o-Xylene	0.091	0.002	"	0.100	ND	90.8	54.2-134	4.23	17.9	
Surrogate: 1,2-Dichloroethane-d4	68		ug/kg	62.5		108	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	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 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 5A22006 - EPA 3580**

**Blank (5A22006-BLK1)**

Prepared: 01/22/2015 Analyzed: 01/22/2015

Gasoline (C6-C10)	ND	50	mg/kg							
Diesel (C10-C28)	ND	50	"							
Residual Range Organics (C28-C36)	ND	200	"							
Surrogate: o-Terphenyl	38.6		"	50.0		77.3	65-146			

**LCS (5A22006-BS1)**

Prepared: 01/22/2015 Analyzed: 01/22/2015

Gasoline (C6-C10)	840	50	mg/kg	1000		83.8	66.7-119			
Diesel (C10-C28)	830	50	"	1000		82.8	70.1-127			
Residual Range Organics (C28-C36)	900	200	"	1000		90.4	54.5-139			
Surrogate: o-Terphenyl	36.6		"	50.0		73.2	65-146			

**Matrix Spike (5A22006-MS1)**

Source: X501205-01

Prepared: 01/22/2015 Analyzed: 01/22/2015

Gasoline (C6-C10)	800	50	mg/kg	1000	22	78.3	56.4-132			
Diesel (C10-C28)	830	50	"	1000	27	80.5	57.4-138			
Residual Range Organics (C28-C36)	910	200	"	1000	22	88.7	47.7-129			
Surrogate: o-Terphenyl	ND		"	2.00			65-146			S-04

**Matrix Spike Dup (5A22006-MSD1)**

Source: X501205-01

Prepared: 01/22/2015 Analyzed: 01/22/2015

Gasoline (C6-C10)	910	50	mg/kg	1000	22	88.6	56.4-132	12.1	22	
Diesel (C10-C28)	960	50	"	1000	27	93.5	57.4-138	14.4	18.3	
Residual Range Organics (C28-C36)	1100	200	"	1000	22	107	47.7-129	18.0	30.1	
Surrogate: o-Terphenyl	32.0		"	50.0		64.0	65-146			S-04

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Justin Solomon  
 Project Number: 014211290-0323  
 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
<b>Batch 5A22007 - NO PREP</b>										
<b>Blank (5A22007-BLK1)</b>					Prepared: 01/22/2015 Analyzed: 01/23/2015					
Specific Conductance (EC)	0.00250		mmhos/cm							
<b>Duplicate (5A22007-DUP1)</b>					<b>Source: X501209-01</b> Prepared: 01/22/2015 Analyzed: 01/23/2015					
Specific Conductance (EC)	0.0875		mmhos/cm		0.0849			3.02	25	
<b>Batch 5A22008 - NO PREP</b>										
<b>Duplicate (5A22008-DUP1)</b>					<b>Source: X501209-01</b> Prepared: 01/22/2015 Analyzed: 01/23/2015					
pH	8.54		pH Units		8.58			0.467	25	

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 Project Number: 014211290-0323  
 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
<b>Batch 1452401 - SW846 3010A</b>										
<b>MS (1203249376 S)</b>										
		<b>Source: 365558001</b>			Prepared: 01/23/2015 Analyzed: 01/26/2015					
Arsenic	4.96	0.300	mg/L	5.00	<0.050	98.8	75-125			
<b>TB (1203249377-BLK)</b>										
					Prepared: 01/23/2015 Analyzed: 01/26/2015					
Arsenic	ND	0.300	mg/L				-			U
<b>BLANK (1203250168-BLK)</b>										
					Prepared: 01/23/2015 Analyzed: 01/26/2015					
Arsenic	ND	0.300	mg/L				-			U
<b>LCS (1203250169-BKS)</b>										
					Prepared: 01/23/2015 Analyzed: 01/26/2015					
Arsenic	4.78	0.300	mg/L	5.00		95.6	80-120			
<b>DUP (1203250170 D)</b>										
		<b>Source: 365558001</b>			Prepared: 01/23/2015 Analyzed: 01/26/2015					
Arsenic	ND	0.300	mg/L		<0.050		0-20	96.8	20	U

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*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: 014211290-0323  
 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
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**Batch 1452114 - SW846 3050B**

**BLANK (1203249406-BLK)**

Prepared: 01/22/2015 Analyzed: 01/23/2015

Arsenic	ND	2.97	mg/kg				-			U
Barium	ND	0.495	"				-			U

**LCS (1203249407-BKS)**

Prepared: 01/22/2015 Analyzed: 01/23/2015

Arsenic	50.4	2.90	mg/kg	48.4		104	80-120			
Barium	49.5	0.484	"	48.4		102	80-120			

**DUP (1203249408 D)**

**Source: X501211-01**

Prepared: 01/22/2015 Analyzed: 01/23/2015

Barium	1450	0.552	mg/kg dry		1060		0-20	31.0	20	
Arsenic	2.91	3.31	"		2.39		0-20	19.6	20	J

**MS (1203249409 S)**

**Source: X501211-01**

Prepared: 01/22/2015 Analyzed: 01/23/2015

Arsenic	56.5	3.26	mg/kg dry	54.4	2.39	99.6	75-125			
Barium	1090	0.544	"	54.4	1060	55.9	75-125			

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**Notes and Definitions**

- U Result not detected above the detection limit
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- N Spiked sample recovery not within control limits
- 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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