



April 10, 2015

LT Environmental, Inc.

Justin Solomon

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Scott 1C-32Hz

Project Number - 014211290-326

Attached are your analytical results for KMG - Scott 1C-32Hz received by Origins Laboratory, Inc. April 02, 2015. This project is associated with Origins project number X504035-01.

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: 014211290-326
Project: KMG - Scott 1C-32Hz

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Off S	X504035-01	Soil	April 1, 2015 14:00	04/02/2015 17:05
Off E	X504035-02	Soil	April 1, 2015 14:10	04/02/2015 17:05
Off N	X504035-03	Soil	April 1, 2015 14:20	04/02/2015 17:05
Off W	X504035-04	Soil	April 1, 2015 14:30	04/02/2015 17:05
Off Comp	X504035-05	Soil	April 1, 2015 14:35	04/02/2015 17:05
Pad Comp	X504035-06	Soil	April 1, 2015 14:45	04/02/2015 17:05

Origins Laboratory, Inc.



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

Justin Solomon
 Project Number: 014211290-326
 Project: KMG - Scott 1C-32Hz

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X504035 Client: LTE
 Client Project ID: KMG - Scott 1C - 32Hz
 Checklist Completed by: Jen Pellegrini Shipped Via: Pickup
 Date/time completed: 4/3/15 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 3.9 °c 1 °c 1 °c (Describe) °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⁾ ?	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 ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
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⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	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 ⁽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)			X	
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)

Date/Time Reviewed 4/6/15

Origins Laboratory, Inc.



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Justin Solomon
Project Number: 014211290-326
Project: KMG - Scott 1C-32Hz

Off S
4/1/2015 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X504035-01 (Soil)

Metals by SW846 3050B/6010C

Arsenic	3.24	3.06	mg/kg dry	1	1468812	04/06/2015	04/09/2015	
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Origins Laboratory, Inc.



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Arvada CO 80003

Justin Solomon
Project Number: 014211290-326
Project: KMG - Scott 1C-32Hz

Off E
4/1/2015 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X504035-02 (Soil)

Metals by SW846 3050B/6010C

Arsenic	3.80	3.01	mg/kg dry	1	1468812	04/06/2015	04/09/2015	
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4600 West 60th Avenue
Arvada CO 80003

Justin Solomon
Project Number: 014211290-326
Project: KMG - Scott 1C-32Hz

Off N
4/1/2015 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X504035-03 (Soil)

Metals by SW846 3050B/6010C

Arsenic	3.86	3.12	mg/kg dry	1	1468812	04/06/2015	04/09/2015	
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4600 West 60th Avenue
Arvada CO 80003

Justin Solomon
Project Number: 014211290-326
Project: KMG - Scott 1C-32Hz

Off W
4/1/2015 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X504035-04 (Soil)

Metals by SW846 3050B/6010C

Arsenic	2.89	2.99	mg/kg dry	1	1468812	04/06/2015	04/09/2015	J
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 4600 West 60th Avenue
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Justin Solomon
 Project Number: 014211290-326
 Project: KMG - Scott 1C-32Hz

Off Comp
4/1/2015 2:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X504035-05 (Soil)

Metals by SW846 3050B/6010C

Arsenic	2.92	3.07	mg/kg dry	1	1468812	04/06/2015	04/09/2015	J
Barium	55.8	0.511	"	"	"	"	"	

pH in Soil by EPA 9045D

pH	7.29		pH Units	1	5D06008	04/06/2015	04/07/2015	
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SAR Metals by SW846 3050B/6010C

Calcium	1550	25.6	mg/kg dry	1	1468813	04/06/2015	04/09/2015	
Magnesium	1700	30.7	"	"	"	"	"	
Sodium	33.6	25.6	"	"	"	"	"	

Sodium Adsorption Ratio

Sodium Adsorption Ratio	0.140		none	1	1470687		04/10/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0230		mmhos/cm	1	5D06009	04/06/2015	04/07/2015	
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 Project: KMG - Scott 1C-32Hz

Pad Comp
4/1/2015 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X504035-06 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	5D03007	04/03/2015	04/03/2015	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.5 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	108 %	70-130			"	"	"	

Metals by SW846 3050B/6010C

Arsenic	5.98	3.13	mg/kg dry	1	1468812	04/06/2015	04/09/2015	
Barium	1210	0.522	"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.57		pH Units	1	5D06008	04/06/2015	04/07/2015	
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SAR Metals by SW846 3050B/6010C

Calcium	19600	26.1	mg/kg dry	1	1468813	04/06/2015	04/09/2015	
Magnesium	4740	31.3	"	"	"	"	"	
Sodium	430	26.1	"	"	"	"	"	

Sodium Adsorption Ratio

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Pad Comp
4/1/2015 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X504035-06 (Soil)

Sodium Adsorption Ratio

Sodium Adsorption Ratio	0.715		none	1	1470687		04/10/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.378		mmhos/cm	1	5D06009	04/06/2015	04/07/2015	
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TCLP Metals by 1311/3010A/6010C

Arsenic	ND	0.300	mg/L	1	1469320	04/07/2015	04/07/2015	U
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TPH-Carbon Chain by EPA Method 8015C

Gasoline (C6-C10)	ND	50	mg/kg	1	5D03008	04/03/2015	04/08/2015	
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Diesel (C10-C28)	90	50	"	"	"	"	"	
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Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	
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Surrogate: o-Terphenyl	83.4 %	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 5D03007 - EPA 5030 (soil)

Blank (5D03007-BLK1)

Prepared: 04/03/2015 Analyzed: 04/03/2015

Benzene	ND	0.002	mg/kg							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.3	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 5D03007 - EPA 5030 (soil)

LCS (5D03007-BS1)

Prepared: 04/03/2015 Analyzed: 04/03/2015

Benzene	0.096	0.002	mg/kg	0.100		95.8	77.1-124			
Toluene	0.094	0.002	"	0.100		94.1	74.5-128			
Ethylbenzene	0.095	0.002	"	0.100		94.6	66.4-127			
m,p-Xylene	0.190	0.004	"	0.200		94.9	76.6-124			
o-Xylene	0.097	0.002	"	0.100		97.2	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	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 5D03007 - EPA 5030 (soil)

Matrix Spike (5D03007-MS1)	Source: X504031-01			Prepared: 04/03/2015 Analyzed: 04/03/2015						
Benzene	0.109	0.002	mg/kg	0.100	ND	109	71.8-126			
Toluene	0.109	0.002	"	0.100	ND	109	65.1-130			
Ethylbenzene	0.097	0.002	"	0.100	ND	96.9	62.2-130			
m,p-Xylene	0.268	0.004	"	0.200	0.034	117	46.5-137			
o-Xylene	0.288	0.002	"	0.100	0.163	125	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	69		"	62.5		110	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 5D03007 - EPA 5030 (soil)

Matrix Spike Dup (5D03007-MSD1)	Source: X504031-01			Prepared: 04/03/2015 Analyzed: 04/03/2015						
Benzene	0.109	0.002	mg/kg	0.100	ND	109	71.8-126	0.606	11.3	
Toluene	0.102	0.002	"	0.100	ND	102	65.1-130	5.94	15.4	
Ethylbenzene	0.056	0.002	"	0.100	ND	55.8	62.2-130	53.8	19.6	QM-07
m,p-Xylene	0.254	0.004	"	0.200	0.034	110	46.5-137	5.37	19.2	
o-Xylene	0.265	0.002	"	0.100	0.163	102	54.2-134	8.34	17.9	
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	63		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	70-130			

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 Project Number: 014211290-326
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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 5D03008 - EPA 3580

Blank (5D03008-BLK1)

Prepared: 04/03/2015 Analyzed: 04/03/2015

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

Surrogate: o-Terphenyl 51.3 " 50.0 103 65-146

LCS (5D03008-BS1)

Prepared: 04/03/2015 Analyzed: 04/03/2015

Gasoline (C6-C10)	1200	50	mg/kg	1000		116	66.7-119			
Diesel (C10-C28)	1100	50	"				70.1-127			
Residual Range Organics (C28-C36)	850	200	"	1000		84.7	54.5-139			

Surrogate: o-Terphenyl 47.5 " 50.0 95.1 65-146

Matrix Spike (5D03008-MS1)

Source: X504031-01

Prepared: 04/03/2015 Analyzed: 04/03/2015

Gasoline (C6-C10)	1200	50	mg/kg	1000	61	119	56.4-132			
Diesel (C10-C28)	1400	50	"		250		57.4-138			
Residual Range Organics (C28-C36)	940	200	"	1000	48	89.2	47.7-129			

Surrogate: o-Terphenyl 45.6 " 50.0 91.3 65-146

Matrix Spike Dup (5D03008-MSD1)

Source: X504031-01

Prepared: 04/03/2015 Analyzed: 04/03/2015

Gasoline (C6-C10)	1200	50	mg/kg	1000	61	115	56.4-132	2.54	22	
Diesel (C10-C28)	1300	50	"		250		57.4-138	5.45	18.3	
Residual Range Organics (C28-C36)	890	200	"	1000	48	84.4	47.7-129	5.27	30.1	

Surrogate: o-Terphenyl 41.6 " 50.0 83.2 65-146

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 Project Number: 014211290-326
 Project: KMG - Scott 1C-32Hz

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 5D06008 - NO PREP										
Duplicate (5D06008-DUP1)		Source: X504060-01			Prepared: 04/06/2015 Analyzed: 04/07/2015					
pH	8.99		pH Units		8.76			2.59	25	
Duplicate (5D06008-DUP2)		Source: X504059-01			Prepared: 04/06/2015 Analyzed: 04/07/2015					
pH	8.70		pH Units		8.77			0.801	25	
Duplicate (5D06008-DUP3)		Source: X504064-01			Prepared: 04/06/2015 Analyzed: 04/07/2015					
pH	8.39		pH Units		8.36			0.358	25	
Batch 5D06009 - NO PREP										
Blank (5D06009-BLK1)					Prepared: 04/06/2015 Analyzed: 04/07/2015					
Specific Conductance (EC)	0.00290		mmhos/cm							
Blank (5D06009-BLK2)					Prepared: 04/06/2015 Analyzed: 04/07/2015					
Specific Conductance (EC)	0.00250		mmhos/cm							
Blank (5D06009-BLK3)					Prepared: 04/06/2015 Analyzed: 04/07/2015					
Specific Conductance (EC)	0.00370		mmhos/cm							
Duplicate (5D06009-DUP1)		Source: X504064-01			Prepared: 04/06/2015 Analyzed: 04/07/2015					
Specific Conductance (EC)	1.25		mmhos/cm		1.27			1.35	25	
Duplicate (5D06009-DUP2)		Source: X504059-01			Prepared: 04/06/2015 Analyzed: 04/07/2015					
Specific Conductance (EC)	0.0303		mmhos/cm		0.0276			9.33	25	
Duplicate (5D06009-DUP3)		Source: X504060-01			Prepared: 04/06/2015 Analyzed: 04/07/2015					
Specific Conductance (EC)	0.0490		mmhos/cm		0.0524			6.71	25	

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 Project: KMG - Scott 1C-32Hz

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 1468812 - SW846 3050B										
BLANK (1203293110-BLK)					Prepared: 04/06/2015 Analyzed: 04/09/2015					
Arsenic	ND	2.99	mg/kg				-			U
Barium	ND	0.498	"				-			U
LCS (1203293111-BKS)					Prepared: 04/06/2015 Analyzed: 04/09/2015					
Barium	48.3	0.474	mg/kg	47.4		102	80-120			
Arsenic	50.2	2.85	"	47.4		106	80-120			
DUP (1203293112 D)		Source: X504035-01			Prepared: 04/06/2015 Analyzed: 04/09/2015					
Arsenic	3.31	3.15	mg/kg dry		3.24		0-20	2.04		20
Barium	53.2	0.524	"		50.6		0-20	4.99		20
MS (1203293113 S)		Source: X504035-01			Prepared: 04/06/2015 Analyzed: 04/09/2015					
Arsenic	54.5	3.04	mg/kg dry	50.6	3.24	101	75-125			
Barium	108	0.506	"	50.6	50.6	113	75-125			

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

Justin Solomon
 Project Number: 014211290-326
 Project: KMG - Scott 1C-32Hz

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 1469320 - SW846 3010A										
MS (1203293177 S)										
			Source: X504035-06		Prepared: 04/07/2015 Analyzed: 04/07/2015					
Arsenic	4.96	0.300	mg/L	5.00	<0.050	98.5	75-125			
TB (1203293178-BLK)										
					Prepared: 04/07/2015 Analyzed: 04/07/2015					
Arsenic	ND	0.300	mg/L				-			U
BLANK (1203294364-BLK)										
					Prepared: 04/07/2015 Analyzed: 04/07/2015					
Arsenic	ND	0.300	mg/L				-			U
LCS (1203294365-BKS)										
					Prepared: 04/07/2015 Analyzed: 04/07/2015					
Arsenic	4.93	0.300	mg/L	5.00		98.6	80-120			
DUP (1203294366 D)										
			Source: X504035-06		Prepared: 04/07/2015 Analyzed: 04/07/2015					
Arsenic	0.0673	0.300	mg/L		<0.050		0-20	53.2	20	J

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Notes and Definitions

U Result not detected above the detection limit

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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