



February 12, 2016

LT Environmental, Inc.

Justin Solomon

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Green Leaf 15N-15Hz

Project Number - 014211290-

Attached are your analytical results for KMG - Green Leaf 15N-15Hz received by Origins Laboratory, Inc. January 29, 2016. This project is associated with Origins project number X602005-01.

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-  
Project: KMG - Green Leaf 15N-15Hz

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Off S	X602005-01	Soil	January 28, 2016 13:00	01/29/2016 15:30
Off E	X602005-02	Soil	January 28, 2016 13:10	01/29/2016 15:30
Off N	X602005-03	Soil	January 28, 2016 13:20	01/29/2016 15:30
Off W	X602005-04	Soil	January 28, 2016 13:30	01/29/2016 15:30
Off Comp	X602005-05	Soil	January 28, 2016 13:40	01/29/2016 15:30
Pad Comp	X602005-06	Soil	January 28, 2016 13:50	01/29/2016 15:30

Origins Laboratory, Inc.



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 Arvada CO 80003

Justin Solomon  
 Project Number: 014211290-  
 Project: KMG - Green Leaf 15N-15Hz

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: X602005

Client: LTE

Client Project ID: Green Leaf 15N-15Hz

Checklist Completed by: Jesse Smith

Shipped Via: HTD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2/1/16

Airbill #: NA

Matrix(s) Received: (Check all that apply):  Soil/Solid

Water  Other: \_\_\_\_\_

(Describe)

Cooler Number/Temperature: 1 / 4.8 °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 <sup>(1)</sup> ?	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)		✓		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Were all samples received intact <sup>(1)</sup> ?	✓			
Was adequate sample volume provided <sup>(1)</sup> ?	✓			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	✓			PH
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	✓			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	✓			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	✓			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	✓			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			✓	
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			✓	
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.

Reviewed by: Jesse Smith (Project Manager)

02/01/16  
 Date/Time Reviewed

Origins Laboratory, Inc.



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Project: KMG - Green Leaf 15N-15Hz

**Off S**

**1/28/2016 1:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**X602005-01 (Soil)**

**Metals by SW846 3050B/6020A**

Arsenic	1.02	1.03	mg/kg dry	2	1541764	02/03/2016	02/04/2016	J
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Origins Laboratory, Inc.



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**Off E**

**1/28/2016 1:10:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**X602005-02 (Soil)**

**Metals by SW846 3050B/6020A**

Arsenic	1.02	1.07	mg/kg dry	2	1541764	02/03/2016	02/04/2016	J
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**Off N**  
**1/28/2016 1:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**X602005-03 (Soil)**

**Metals by SW846 3050B/6020A**

Arsenic	0.948	1.01	mg/kg dry	2	1541764	02/03/2016	02/04/2016	J
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**Off W**  
**1/28/2016 1:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**X602005-04 (Soil)**

**Metals by SW846 3050B/6020A**

Arsenic	0.951	1.07	mg/kg dry	2	1541764	02/03/2016	02/04/2016	J
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**Off Comp**  
**1/28/2016 1:40:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**AAL, Inc.**  
**X602005-05 (Soil)**

**Metals by 6010**

Calcium	4.12		me/L	1	'[none]'	02/06/2016	02/10/2016	
Magnesium	2.24		"	"	"	"	"	
Sodium	.49		"	"	"	"	"	

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

Barium	29.0	0.516	mg/kg dry	1	1541778	02/02/2016	02/03/2016	
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**Metals by SW846 3050B/6020A**

Arsenic	0.944	1.04	mg/kg dry	2	1541764	02/03/2016	02/04/2016	J
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**pH in Soil by EPA 9045D**

pH	8.02		pH Units	1	B6B0106	02/01/2016	02/01/2016	
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**SAR by 20B Saturated Paste**

SAR	.27			1	'[none]'	02/06/2016	02/10/2016	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.0715		mmhos/cm	1	B6B0107	02/01/2016	02/01/2016	
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**Pad Comp**  
**1/28/2016 1:50:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X602005-06 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	B6B0105	02/01/2016	02/03/2016	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

*Surrogate: o-Terphenyl* 84.0 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6B0104	02/01/2016	02/01/2016	Ua
Benzene	ND	0.002	"	"	"	"	"	Ua
Toluene	ND	0.002	"	"	"	"	"	Ua
Ethylbenzene	ND	0.002	"	"	"	"	"	Ua
Xylenes, total	ND	0.002	"	"	"	"	"	Ua

*Surrogate: 1,2-Dichloroethane-d4* 118 % 70-130 " " "  
*Surrogate: Toluene-d8* 100 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 92.8 % 70-130 " " "

**Metals by 6010**

Calcium	24.8		me/L	1	'[none]'	02/06/2016	02/10/2016	
Magnesium	12.02		"	"	"	"	"	
Sodium	18.01		"	"	"	"	"	

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

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**Pad Comp**  
**1/28/2016 1:50:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**X602005-06 (Soil)**

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

Barium	74.0	0.574	mg/kg dry	1	1541778	02/02/2016	02/03/2016	
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**Metals by SW846 3050B/6020A**

Arsenic	2.30	1.11	mg/kg dry	2	1541764	02/03/2016	02/04/2016	
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**pH in Soil by EPA 9045D**

pH	7.67		pH Units	1	B6B0106	02/01/2016	02/01/2016	
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**SAR by 20B Saturated Paste**

SAR	4.2			1	'[none]'	02/06/2016	02/10/2016	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.587		mmhos/cm	1	B6B0107	02/01/2016	02/01/2016	
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**TCLP Metals by 1311/3010A/6010C**

Arsenic	ND	0.300	mg/L	1	1541965	02/03/2016	02/03/2016	U
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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
<b>Batch B6B0104 - EPA 5030 (soil)</b>										
<b>Blank (B6B0104-BLK1)</b>										
					Prepared: 02/01/2016 Analyzed: 02/01/2016					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							Ua
Benzene	ND	0.002	"							Ua
Toluene	ND	0.002	"							Ua
Ethylbenzene	ND	0.002	"							Ua
Xylenes, total	ND	0.002	"							Ua
Surrogate: 1,2-Dichloroethane-d4	74.8		ug/kg	62.5		120	70-130			
Surrogate: Toluene-d8	65.2		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	62.6		"	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 B6B0104 - EPA 5030 (soil)

**LCS (B6B0104-BS1)**

Prepared: 02/01/2016 Analyzed: 02/01/2016

Benzene	0.102	0.002	mg/kg	0.100		102	77.1-124			
Toluene	0.111	0.002	"	0.100		111	74.5-128			
Ethylbenzene	0.102	0.002	"	0.100		102	66.4-127			
m,p-Xylene	0.218	0.004	"	0.200		109	76.6-124			
o-Xylene	0.110	0.002	"	0.100		110	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	75.6		ug/kg	62.5		121	70-130			
Surrogate: Toluene-d8	68.7		"	62.5		110	70-130			
Surrogate: 4-Bromofluorobenzene	58.4		"	62.5		93.5	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 B6B0104 - EPA 5030 (soil)

Matrix Spike (B6B0104-MS1)	Source: X602001-06			Prepared: 02/01/2016 Analyzed: 02/01/2016						
Benzene	0.098	0.002	mg/kg	0.100	ND	97.8	71.8-126			
Toluene	0.106	0.002	"	0.100	ND	106	65.1-130			
Ethylbenzene	0.105	0.002	"	0.100	ND	105	62.2-130			
m,p-Xylene	0.222	0.004	"	0.200	ND	111	46.5-137			
o-Xylene	0.110	0.002	"	0.100	ND	110	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	73.7		ug/kg	62.5		118	70-130			
Surrogate: Toluene-d8	69.6		"	62.5		111	70-130			
Surrogate: 4-Bromofluorobenzene	62.2		"	62.5		99.5	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 B6B0104 - EPA 5030 (soil)

Matrix Spike Dup (B6B0104-MSD1)	Source: X602001-06			Prepared: 02/01/2016 Analyzed: 02/01/2016						
Benzene	0.091	0.002	mg/kg	0.100	ND	91.0	71.8-126	7.12	11.3	
Toluene	0.100	0.002	"	0.100	ND	100	65.1-130	5.17	15.4	
Ethylbenzene	0.100	0.002	"	0.100	ND	99.8	62.2-130	4.83	19.6	
m,p-Xylene	0.211	0.004	"	0.200	ND	106	46.5-137	4.90	19.2	
o-Xylene	0.105	0.002	"	0.100	ND	105	54.2-134	4.45	17.9	
Surrogate: 1,2-Dichloroethane-d4	73.4		ug/kg	62.5		117	70-130			
Surrogate: Toluene-d8	70.0		"	62.5		112	70-130			
Surrogate: 4-Bromofluorobenzene	61.4		"	62.5		98.3	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 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 B6B0105 - EPA 3580**

**Blank (B6B0105-BLK1)**

Prepared: 02/01/2016 Analyzed: 02/03/2016

Diesel (C10-C28)	ND	50	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	200	"							Ua
Surrogate: o-Terphenyl	40		"	50.0		80.0	59-131			

**LCS (B6B0105-BS1)**

Prepared: 02/01/2016 Analyzed: 02/03/2016

Diesel (C10-C28)	1100	50	mg/kg				64-121			
Residual Range Organics (C28-C40)	1100	200	"				58-124			
Surrogate: o-Terphenyl	56		"	50.0		113	59-131			

**Matrix Spike (B6B0105-MS1)**

Source: X602001-06

Prepared: 02/01/2016 Analyzed: 02/03/2016

Diesel (C10-C28)	970	50	mg/kg		ND		53-125			
Residual Range Organics (C28-C40)	980	200	"		18		47-133			
Surrogate: o-Terphenyl	52		"	50.0		104	59-131			

**Matrix Spike Dup (B6B0105-MSD1)**

Source: X602001-06

Prepared: 02/01/2016 Analyzed: 02/03/2016

Diesel (C10-C28)	1000	50	mg/kg		ND		53-125	3.58	20	
Residual Range Organics (C28-C40)	1100	200	"		18		47-133	7.03	20	
Surrogate: o-Terphenyl	47		"	50.0		94.3	59-131			

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**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 B6B0106 - NO PREP</b>										
<b>Duplicate (B6B0106-DUP1)</b>		<b>Source: X602001-05</b>			Prepared: 02/01/2016 Analyzed: 02/01/2016					
pH	7.53		pH Units		7.59			0.794	25	
<b>Duplicate (B6B0106-DUP2)</b>		<b>Source: X602001-06</b>			Prepared: 02/01/2016 Analyzed: 02/01/2016					
pH	8.13		pH Units		8.25			1.47	25	
<b>Batch B6B0107 - NO PREP</b>										
<b>Blank (B6B0107-BLK1)</b>		Prepared: 02/01/2016 Analyzed: 02/01/2016								
Specific Conductance (EC)	0.00320		mmhos/cm							
<b>Blank (B6B0107-BLK2)</b>		Prepared: 02/01/2016 Analyzed: 02/01/2016								
Specific Conductance (EC)	0.00310		mmhos/cm							
<b>Duplicate (B6B0107-DUP1)</b>		<b>Source: X602002-05</b>			Prepared: 02/01/2016 Analyzed: 02/01/2016					
Specific Conductance (EC)	0.0340		mmhos/cm		0.0370			8.45	25	
<b>Duplicate (B6B0107-DUP2)</b>		<b>Source: X602001-06</b>			Prepared: 02/01/2016 Analyzed: 02/01/2016					
Specific Conductance (EC)	0.245		mmhos/cm		0.228			7.19	25	

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**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
<b>Batch 1541778 - SW846 3050B</b>										
<b>BLANK (1203480440-BLK)</b>					Prepared: 02/02/2016 Analyzed: 02/03/2016					
Barium	ND	0.499	mg/kg				-			U
<b>LCS (1203480441-BKS)</b>					Prepared: 02/02/2016 Analyzed: 02/03/2016					
Barium	48.3	0.485	mg/kg	48.5		99.4	80-120			
<b>DUP (1203480442 D)</b>					Source: 390463005 Prepared: 02/02/2016 Analyzed: 02/03/2016					
Barium	123	0.553	mg/kg dry		79.4		0-20	42.7	20	
<b>MS (1203480443 S)</b>					Source: 390463005 Prepared: 02/02/2016 Analyzed: 02/03/2016					
Barium	132	0.564	mg/kg dry	56.4	79.4	93	75-125			

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

Justin Solomon  
 Project Number: 014211290-  
 Project: KMG - Green Leaf 15N-15Hz

**Metals by SW846 3050B/6020A - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1541764 - SW846 3050B</b>										
<b>BLANK (1203480404-BLK)</b>					Prepared: 02/03/2016 Analyzed: 02/04/2016					
Arsenic	ND	0.960	mg/kg				-			U
<b>LCS (1203480405-BKS)</b>					Prepared: 02/03/2016 Analyzed: 02/04/2016					
Arsenic	4.39	0.980	mg/kg	4.90		89.6	80-120			
<b>DUP (1203480406 D)</b>					Prepared: 02/03/2016 Analyzed: 02/04/2016					
					<b>Source: 390455001</b>					
Arsenic	0.673	1.06	mg/kg dry		0.679		0-20	0.944	20	J
<b>MS (1203480407 S)</b>					Prepared: 02/03/2016 Analyzed: 02/04/2016					
					<b>Source: 390455001</b>					
Arsenic	5.52	1.07	mg/kg dry	5.35	0.679	90.5	75-125			

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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
<b>Batch 1541965 - SW846 3010A</b>										
<b>MS (1203480362 S)</b>										
			<b>Source: 390430006</b>		Prepared: 02/03/2016 Analyzed: 02/03/2016					
Arsenic	4.41	0.300	mg/L	5.00	<0.050	88	75-125			
<b>TB (1203480363-BLK)</b>										
					Prepared: 02/03/2016 Analyzed: 02/03/2016					
Arsenic	ND	0.300	mg/L				-			U
<b>TB (1203480720-BLK)</b>										
					Prepared: 02/03/2016 Analyzed: 02/03/2016					
Arsenic	ND	0.300	mg/L				-			U
<b>BLANK (1203480933-BLK)</b>										
					Prepared: 02/03/2016 Analyzed: 02/03/2016					
Arsenic	ND	0.300	mg/L				-			U
<b>LCS (1203480934-BKS)</b>										
					Prepared: 02/03/2016 Analyzed: 02/03/2016					
Arsenic	4.79	0.300	mg/L	5.00		95.9	80-120			
<b>DUP (1203480935 D)</b>										
			<b>Source: 390430006</b>		Prepared: 02/03/2016 Analyzed: 02/03/2016					
Arsenic	ND	0.300	mg/L		<0.050		0-20	NR	20	U

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**Notes and Definitions**

- Ua Sample is Non-Detect.
- 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 at a wet weight basis.

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