



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

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

ORIGINS

X60700S

page 1 of 1

Justin Solomon

Project Manager:

KMG - GREEN LEAF 15N-15Hz

Project Name:

014211290-

Project Number:

RZ

Samples Collected By:

HTT: MIKE POKEL

Client:

LT Environmental Inc.

Address:

4600 W. 60th Ave Anvada CO 80002

Telephone Number:

303.433.7988

Fax/Cell Address:

isolomon@ltenv.com

[illegible]

Date Results Needed

Origins Laboratory, Inc.

Jeff Pellgrini

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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

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): X Soil/Solid Water Other:

(Describe)

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

02/01/16
Date/Time Reviewed

Origins Laboratory, Inc.

Jesse Pellegrini

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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

Off S

1/28/2016 1:00:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

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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4600 West 60th Avenue
Arvada CO 80003

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

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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Origins Laboratory, Inc.



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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

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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Origins Laboratory, Inc.



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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

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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4600 West 60th Avenue
Arvada CO 80003

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

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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Project: KMG - Green Leaf 15N-15Hz

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
Batch B6B0104 - EPA 5030 (soil)										
Blank (B6B0104-BLK1)					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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Arvada CO 80003

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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
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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Project Number: 014211290-
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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
Batch B6B0106 - NO PREP										
Duplicate (B6B0106-DUP1)	Source: X602001-05				Prepared: 02/01/2016 Analyzed: 02/01/2016					
pH	7.53		pH Units		7.59			0.794	25	
Duplicate (B6B0106-DUP2)	Source: X602001-06				Prepared: 02/01/2016 Analyzed: 02/01/2016					
pH	8.13		pH Units		8.25			1.47	25	
Batch B6B0107 - NO PREP										
Blank (B6B0107-BLK1)	Prepared: 02/01/2016 Analyzed: 02/01/2016									
Specific Conductance (EC)	0.00320		mmhos/cm							
Blank (B6B0107-BLK2)	Prepared: 02/01/2016 Analyzed: 02/01/2016									
Specific Conductance (EC)	0.00310		mmhos/cm							
Duplicate (B6B0107-DUP1)	Source: X602002-05				Prepared: 02/01/2016 Analyzed: 02/01/2016					
Specific Conductance (EC)	0.0340		mmhos/cm		0.0370			8.45	25	
Duplicate (B6B0107-DUP2)	Source: X602001-06				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
Batch 1541778 - SW846 3050B										
BLANK (1203480440-BLK)					Prepared: 02/02/2016 Analyzed: 02/03/2016					
Barium	ND	0.499	mg/kg				-			U
LCS (1203480441-BKS)					Prepared: 02/02/2016 Analyzed: 02/03/2016					
Barium	48.3	0.485	mg/kg	48.5		99.4	80-120			
DUP (1203480442 D)					Prepared: 02/02/2016 Analyzed: 02/03/2016					
		Source: 390463005								
Barium	123	0.553	mg/kg dry		79.4		0-20	42.7	20	
MS (1203480443 S)					Prepared: 02/02/2016 Analyzed: 02/03/2016					
		Source: 390463005								
Barium	132	0.564	mg/kg dry	56.4	79.4	93	75-125			

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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
Batch 1541764 - SW846 3050B										
BLANK (1203480404-BLK)					Prepared: 02/03/2016 Analyzed: 02/04/2016					
Arsenic	ND	0.960	mg/kg				-			U
LCS (1203480405-BKS)					Prepared: 02/03/2016 Analyzed: 02/04/2016					
Arsenic	4.39	0.980	mg/kg	4.90		89.6	80-120			
DUP (1203480406 D)					Prepared: 02/03/2016 Analyzed: 02/04/2016					
		Source: 390455001								
Arsenic	0.673	1.06	mg/kg dry		0.679		0-20	0.944	20	J
MS (1203480407 S)					Prepared: 02/03/2016 Analyzed: 02/04/2016					
		Source: 390455001								
Arsenic	5.52	1.07	mg/kg dry	5.35	0.679	90.5	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
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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
Batch 1541965 - SW846 3010A										
MS (1203480362 S)		Source: 390430006			Prepared: 02/03/2016 Analyzed: 02/03/2016					
Arsenic	4.41	0.300	mg/L	5.00	<0.050	88	75-125			
TB (1203480363-BLK)					Prepared: 02/03/2016 Analyzed: 02/03/2016					
Arsenic	ND	0.300	mg/L				-			U
TB (1203480720-BLK)					Prepared: 02/03/2016 Analyzed: 02/03/2016					
Arsenic	ND	0.300	mg/L				-			U
BLANK (1203480933-BLK)					Prepared: 02/03/2016 Analyzed: 02/03/2016					
Arsenic	ND	0.300	mg/L				-			U
LCS (1203480934-BKS)					Prepared: 02/03/2016 Analyzed: 02/03/2016					
Arsenic	4.79	0.300	mg/L	5.00		95.9	80-120			
DUP (1203480935 D)		Source: 390430006			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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