



February 29, 2016

LT Environmental, Inc.

Justin Solomon

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - Benson Farms 11N-19Hz

Project Number - 014211290-

Attached are your analytical results for KMG - Benson Farms 11N-19Hz received by Origins Laboratory, Inc. February 18, 2016. This project is associated with Origins project number X602224-01.

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 - Benson Farms 11N-19Hz

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Off S	X602224-01	Soil	February 18, 2016 10:00	02/18/2016 16:58
Off E	X602224-02	Soil	February 18, 2016 10:10	02/18/2016 16:58
Off N	X602224-03	Soil	February 18, 2016 10:20	02/18/2016 16:58
Off W	X602224-04	Soil	February 18, 2016 10:30	02/18/2016 16:58
Off Comp	X602224-05	Soil	February 18, 2016 10:40	02/18/2016 16:58
Pad Comp	X602224-06	Soil	February 18, 2016 10:50	02/18/2016 16:58

Origins Laboratory, Inc.



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


Justin Solomon
Project Number: 014211290-
Project: KMG - Benson Farms 11N-19Hz

page 1 of 1

X602224

Client: LT Environmental Inc.
Address: 4600 W. 60th Ave Arvada CO 80002
Telephone Number: 303.433.7988
Fax: 303.433.7988
Email Address: jsolomon@ltenv.com

Project Manager: Justin Solomon
Project Name: KMG - Benson Farms 11N-19Hz
Project Number: 014211290-
Samples Collected By: RZ
AIT: Mike Dunkel
He 2072413.DAL 2072409.DEL
2072598.DEL 2072899.DEL

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix			Analysis					Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summary	Other	TPH Do/Deco	Bois	PH, EC, SAR	Total Arsenic	Total Barium	
Off S	2/18/16	10:00	1	X						X			X			1	Standard
Off E		10:10	1	X						X			X			2	
Off N		10:20	1	X						X			X			3	
Off W		10:30	1	X						X			X			4	
Off Comp		10:40	3	X						X			X	X		5	
Pad Comp		10:50	4	X						X			X	X	X	6	
																7	Standard
																8	
																9	
																10	
Relinquished By: 	Date: 2/18/16	Time: 15:30														Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/>	
Relinquished By: Holly Tracker	Date: 2/18/16	Time: 16:58														48 Hr <input type="checkbox"/> Standard <input type="checkbox"/>	

Date Results Needed

57°

Origins Laboratory, Inc.

Jefe Pellegrini

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4600 West 60th Avenue
Arvada CO 80003

Justin Solomon
Project Number: 014211290-
Project: KMG - Benson Farms 11N-19Hz

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: XG0224

Client: LTE

Client Project ID: Benson Farms 11N-19Hz

Checklist Completed by: Jeff Smith

Shipped Via: H/D

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

Date/time completed: 2/12/16

Airbill #: NA

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

Cooler Number/Temperature: 1 / 5.7 °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 ⁽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>X</u>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<u>X</u>		
Were all samples received intact ⁽¹⁾ ?	<u>X</u>			
Was adequate sample volume provided ⁽¹⁾ ?	<u>X</u>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<u>X</u>			<u>PH</u>
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<u>X</u>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<u>X</u>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<u>X</u>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<u>X</u>			
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<u>X</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>X</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 (Project Manager) [Signature]

2/22/16
Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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Justin Solomon
Project Number: 014211290-
Project: KMG - Benson Farms 11N-19Hz

Off S

2/18/2016 10:00:00AM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

GEL Laboratories, LLC
X602224-01 (Soil)

Metals by SW846 3050B/6020A

Arsenic	6.49	1.20	mg/kg dry	2	1546715	02/22/2016	02/24/2016
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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 - Benson Farms 11N-19Hz

Off E

2/18/2016 10:10:00AM

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit						

GEL Laboratories, LLC
X602224-02 (Soil)

Metals by SW846 3050B/6020A

Arsenic	5.73	1.12	mg/kg dry	2	1546715	02/22/2016	02/24/2016
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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 - Benson Farms 11N-19Hz

Off N

2/18/2016 10:20:00AM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

GEL Laboratories, LLC
X602224-03 (Soil)

Metals by SW846 3050B/6020A

Arsenic	5.41	1.15	mg/kg dry	2	1546715	02/22/2016	02/24/2016
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4600 West 60th Avenue
Arvada CO 80003

Justin Solomon
Project Number: 014211290-
Project: KMG - Benson Farms 11N-19Hz

Off W

2/18/2016 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X602224-04 (Soil)

Metals by SW846 3050B/6020A

Arsenic	4.88	1.06	mg/kg dry	2	1546715	02/22/2016	02/24/2016
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4600 West 60th Avenue
Arvada CO 80003

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Project Number: 014211290-
Project: KMG - Benson Farms 11N-19Hz

Off Comp**2/18/2016 10:40:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**AAL, Inc.
X602224-05 (Soil)****Metals by 6010**

Calcium	6.41		me/L	1	'[none]'	02/22/2016	02/26/2016	
Magnesium	2.62		"	"	"	"	"	
Sodium	2.13		"	"	"	"	"	

Metals by SW846 3050B/6010C

Barium	159	0.544	mg/kg dry	1	1546739	"	02/23/2016	
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Metals by SW846 3050B/6020A

Arsenic	7.47	1.14	mg/kg dry	2	1546715	"	02/24/2016	
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pH in Soil by EPA 9045D

pH	7.93		pH Units	1	B6B2203	02/22/2016	02/22/2016	O-04
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SAR by 20B Saturated Paste

SAR	1.00			1	'[none]'	02/22/2016	02/26/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.144		mmhos/cm	1	B6B2204	02/22/2016	02/22/2016	
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Project Number: 014211290-
Project: KMG - Benson Farms 11N-19Hz

Pad Comp

2/18/2016 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. X602224-06 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	B6B2206	02/22/2016	02/22/2016	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl 69.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6B2202	02/22/2016	02/24/2016	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 116 % 70-130 " " "
Surrogate: Toluene-d8 105 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 96.0 % 70-130 " " "

Metals by 6010

Calcium	10.68		me/L	1	'[none]'	02/22/2016	02/26/2016	
Magnesium	4.21		"	"	"	"	"	
Sodium	5.38		"	"	"	"	"	

Metals by SW846 3050B/6010C

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Pad Comp

2/18/2016 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X602224-06 (Soil)

Metals by SW846 3050B/6010C

Barium	151	0.591	mg/kg dry	1	1546739	02/22/2016	02/23/2016	
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Metals by SW846 3050B/6020A

Arsenic	5.65	1.12	mg/kg dry	2	1546715	"	02/24/2016	
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pH in Soil by EPA 9045D

pH	7.78		pH Units	1	B6B2203	02/22/2016	02/22/2016	O-04
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SAR by 20B Saturated Paste

SAR	1.97			1	'[none]'	02/22/2016	02/26/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.150		mmhos/cm	1	B6B2204	02/22/2016	02/22/2016	
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TCLP Metals by 1311/3010A/6010C

Arsenic	ND	0.300	mg/L	1	1547091	02/23/2016	02/24/2016	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 B6B2202 - EPA 5030 (soil)										
Blank (B6B2202-BLK1)					Prepared: 02/22/2016 Analyzed: 02/24/2016					
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	73.9		ug/kg	62.5		118	70-130			
Surrogate: Toluene-d8	60.5		"	62.5		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	59.6		"	62.5		95.3	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
Batch B6B2202 - EPA 5030 (soil)										
LCS (B6B2202-BS1)					Prepared: 02/22/2016 Analyzed: 02/24/2016					
Benzene	0.101	0.002	mg/kg	0.100		101	77.1-124			
Toluene	0.097	0.002	"	0.100		97.3	74.5-128			
Ethylbenzene	0.096	0.002	"	0.100		96.2	66.4-127			
m,p-Xylene	0.195	0.004	"	0.200		97.7	76.6-124			
o-Xylene	0.096	0.002	"	0.100		95.5	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	69.0		ug/kg	62.5		110	70-130			
Surrogate: Toluene-d8	62.3		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	65.4		"	62.5		105	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 B6B2202 - EPA 5030 (soil)

Matrix Spike (B6B2202-MS1)		Source: X602220-06			Prepared: 02/22/2016 Analyzed: 02/24/2016					
Benzene	0.102	0.002	mg/kg	0.100	ND	102	71.8-126			
Toluene	0.104	0.002	"	0.100	ND	104	65.1-130			
Ethylbenzene	0.101	0.002	"	0.100	ND	101	62.2-130			
m,p-Xylene	0.205	0.004	"	0.200	ND	103	46.5-137			
o-Xylene	0.101	0.002	"	0.100	ND	101	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	68.1		ug/kg	62.5		109	70-130			
Surrogate: Toluene-d8	64.3		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	63.7		"	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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Batch B6B2202 - EPA 5030 (soil)

Matrix Spike Dup (B6B2202-MSD1)		Source: X602220-06			Prepared: 02/22/2016 Analyzed: 02/24/2016					
Benzene	0.109	0.002	mg/kg	0.100	ND	109	71.8-126	6.76	11.3	
Toluene	0.099	0.002	"	0.100	ND	98.8	65.1-130	4.96	15.4	
Ethylbenzene	0.100	0.002	"	0.100	ND	100	62.2-130	0.894	19.6	
m,p-Xylene	0.209	0.004	"	0.200	ND	105	46.5-137	1.81	19.2	
o-Xylene	0.101	0.002	"	0.100	ND	101	54.2-134	0.198	17.9	
Surrogate: 1,2-Dichloroethane-d4	69.6		ug/kg	62.5		111	70-130			
Surrogate: Toluene-d8	60.3		"	62.5		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	65.9		"	62.5		105	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 B6B2206 - EPA 3580

Blank (B6B2206-BLK1)

Prepared: 02/22/2016 Analyzed: 02/22/2016

Diesel (C10-C28)	ND	50	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	200	"							Ua
Surrogate: o-Terphenyl	49		"	50.0		97.9	59-131			

LCS (B6B2206-BS1)

Prepared: 02/22/2016 Analyzed: 02/22/2016

Diesel (C10-C28)	920	50	mg/kg	1000		92.3	64-121			
Residual Range Organics (C28-C40)	960	200	"	1000		95.9	58-124			
Surrogate: o-Terphenyl	50		"	50.0		99.7	59-131			

Matrix Spike (B6B2206-MS1)

Source: X602220-06

Prepared: 02/22/2016 Analyzed: 02/22/2016

Diesel (C10-C28)	810	50	mg/kg	1000	ND	80.7	53-125			
Residual Range Organics (C28-C40)	790	200	"	1000	23	77.1	47-133			
Surrogate: o-Terphenyl	42		"	50.0		83.9	59-131			

Matrix Spike Dup (B6B2206-MSD1)

Source: X602220-06

Prepared: 02/22/2016 Analyzed: 02/22/2016

Diesel (C10-C28)	830	50	mg/kg	1000	ND	83.2	53-125	2.95	20	
Residual Range Organics (C28-C40)	840	200	"	1000	23	81.5	47-133	5.42	20	
Surrogate: o-Terphenyl	38		"	50.0		75.2	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 B6B2203 - NO PREP										
Duplicate (B6B2203-DUP1)		Source: X602220-05			Prepared: 02/22/2016 Analyzed: 02/22/2016					
pH	7.86		pH Units		7.56			3.89	25	
Duplicate (B6B2203-DUP2)		Source: X602253-01			Prepared: 02/22/2016 Analyzed: 02/22/2016					
pH	8.02		pH Units		8.72			8.36	25	
Batch B6B2204 - NO PREP										
Blank (B6B2204-BLK1)		Prepared: 02/22/2016 Analyzed: 02/22/2016								
Specific Conductance (EC)	0.00300		mmhos/cm							
Duplicate (B6B2204-DUP1)		Source: X602220-05			Prepared: 02/22/2016 Analyzed: 02/22/2016					
Specific Conductance (EC)	0.0661		mmhos/cm		0.0668			1.05	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 1546739 - SW846 3050B										
BLANK (1203494273-BLK)					Prepared: 02/22/2016 Analyzed: 02/23/2016					
Barium	ND	0.496	mg/kg				-			U
LCS (1203494274-BKS)					Prepared: 02/22/2016 Analyzed: 02/23/2016					
Barium	46.7	0.486	mg/kg	48.6		96	80-120			
DUP (1203494275 D)					Prepared: 02/22/2016 Analyzed: 02/23/2016					
		Source: 391753005								
Barium	190	0.637	mg/kg dry		180		0-20	5.5	20	
MS (1203494276 S)					Prepared: 02/22/2016 Analyzed: 02/23/2016					
		Source: 391753005								
Barium	243	0.637	mg/kg dry	63.7	180	99.4	75-125			

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

Justin Solomon
Project Number: 014211290-
Project: KMG - Benson Farms 11N-19Hz

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 1546715 - SW846 3050B										
BLANK (1203494226-BLK)					Prepared: 02/22/2016 Analyzed: 02/23/2016					
Arsenic	ND	0.986	mg/kg				-			U
LCS (1203494227-BKS)					Prepared: 02/22/2016 Analyzed: 02/23/2016					
Arsenic	4.46	0.943	mg/kg	4.72		94.6	80-120			
DUP (1203494228 D)					Prepared: 02/22/2016 Analyzed: 02/23/2016					
		Source: 391756001								
Arsenic	5.75	1.30	mg/kg dry		5.50		0-20	4.57	20	
MS (1203494229 S)					Prepared: 02/22/2016 Analyzed: 02/24/2016					
		Source: 391756001								
Arsenic	11.5	1.21	mg/kg dry	6.07	5.50	99.1	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
Batch 1547091 - SW846 3010A										
MS (1203494253 S)	Source: 391753006				Prepared: 02/23/2016 Analyzed: 02/24/2016					
Arsenic	3.80	0.300	mg/L	5.00	0.0645	74.7	75-125			N
TB (1203494254-BLK)	Prepared: 02/23/2016 Analyzed: 02/24/2016									
Arsenic	ND	0.300	mg/L				-			U
TB (1203494800-BLK)	Prepared: 02/23/2016 Analyzed: 02/24/2016									
Arsenic	ND	0.300	mg/L				-			U
BLANK (1203495167-BLK)	Prepared: 02/23/2016 Analyzed: 02/24/2016									
Arsenic	ND	0.300	mg/L				-			U
LCS (1203495168-BKS)	Prepared: 02/23/2016 Analyzed: 02/24/2016									
Arsenic	4.66	0.300	mg/L	5.00		93.2	80-120			
DUP (1203495169 D)	Source: 391753006				Prepared: 02/23/2016 Analyzed: 02/24/2016					
Arsenic	ND	0.300	mg/L		0.0645		0-20	80.4	20	U
PS (1203495954 S)	Source: 391753006				Prepared: 02/23/2016 Analyzed: 02/24/2016					
Arsenic	0.672	0.030	mg/L	0.500		133	80-120			

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Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

O-04 This sample was analyzed outside the EPA recommended holding time.

N Spiked sample recovery not within control limits

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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