



February 04, 2016

LT Environmental, Inc.

Justin Solomon

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Gobbler 15N-22HZ

Project Number - 014211290-367

Attached are your analytical results for KMG - Gobbler 15N-22HZ received by Origins Laboratory, Inc. February 06, 2015. This project is associated with Origins project number X502081-01.

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: 014211290-367  
Project: KMG - Gobbler 15N-22HZ

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pad Comp	X502081-01	Soil	February 6, 2015 13:25	02/06/2015 17:38
Off N	X502081-02	Soil	February 6, 2015 13:05	02/06/2015 17:38
Off E	X502081-03	Soil	February 6, 2015 13:10	02/06/2015 17:38
Off S	X502081-04	Soil	February 6, 2015 13:15	02/06/2015 17:38
Off W	X502081-05	Soil	February 6, 2015 13:20	02/06/2015 17:38
Off Comp	X502081-06	Soil	February 6, 2015 13:25	02/06/2015 17:38

Origins Laboratory, Inc.



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page 1 of 1



X502081

Client: LT Environmental  
 Project Manager: Justin Solomon  
 Address: 4600 West 60th Avenue Arvada CO 80003  
 Project Name: KMG Gobbler 356-27HZ  
 Telephone Number: 303-433-9789  
 Project Number: 014211290-367  
 Email Address: jsolomon@ltenv.com  
 Samples Collected By: R. Beans

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Canister #	Other			
Pad Comp	2/6/15	1325	3	X				X			X	1	
off N		1305	1	X				X			X	2	No Toluene, DTH, Pthalates per Justice 1/30/15
off E		1310	1	X				X			X	3	1/30/15
off S		1315	1	X				X			X	4	
off W		1320	1	X				X			X	5	
off Comp	2/6/15	1325	2	X				X			X	6	No Toluene
												7	
												8	
												9	
												10	

Relinquished By: R. Beans Date: 2/6/15 Time: 1630  
 Received By: [Signature] Date: 2/6/15 Time: 1645  
 Relinquished By: [Signature] Date: 2/6/15 Time: 1708  
 Received By: [Signature] Date: 2/6/15 Time: 1738

Turnaround Time: Same Day  24 Hr  48 Hr  72 Hr  Standard  5.5

Date Results Needed

Fax: 303.265.9645 | Phone: 303.433.1322 | Denver, CO 80211 | 1725 Elk Place

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 Project Number: 014211290-367  
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Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: XS07081 Client: LTE  
 Client Project ID: Gobbler 35C-2742  
 Checklist Completed by: Jeff Smith Shipped Via: H/B  
 Date/time completed: 2/6/15 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: 124  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1 / 5.8 °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C (Describe)  
 Thermometer ID: 1003

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)		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 <sup>(1)?</sup>	X			
Was adequate sample volume provided <sup>(1)?</sup>	X			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)?</sup>	X			PH
Is a chain-of-custody (COC) present and filled out completely <sup>(1)?</sup>	X			
Does the COC agree with the number and type of sample bottles received <sup>(1)?</sup>	X			
Do the sample IDs on the bottle labels match the COC <sup>(1)?</sup>	X			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)?</sup>	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 <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)			X	
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: [Signature] (Project Manager) Date/Time Reviewed: 02-09-15

Origins Laboratory, Inc.

[Signature]

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**Pad Comp**  
**2/6/2015 1:25:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X502081-01 (Soil)**

**BTEX by EPA 8260C**

Benzene	ND	0.002	mg/kg	1	5B09007	02/09/2015	02/09/2015	Ua
Toluene	ND	0.002	"	"	"	"	"	Ua
Ethylbenzene	ND	0.002	"	"	"	"	"	Ua
Xylenes, total	ND	0.002	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	129 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.7 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.2 %	70-130			"	"	"	

**pH in Soil by EPA 9045D**

pH	8.43		pH Units	1	5B09008	02/09/2015	02/09/2015	
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**SAR Metals by SW846 3050B/6010C**

Calcium	16800	28.4	mg/kg dry	1	1456688	02/10/2015	02/11/2015	
Magnesium	2460	34.1	"	"	"	"	"	
Sodium	863	28.4	"	"	"	"	"	

**Sodium Adsorption Ratio**

Sodium Adsorption Ratio	1.65		none	1	1458262		02/16/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.442		mmhos/cm	1	5B09009	02/09/2015	02/09/2015	
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**Pad Comp**  
**2/6/2015 1:25:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X502081-01 (Soil)**

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

Arsenic	ND	0.300	mg/L	1	1456967	02/11/2015	02/11/2015	U
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**Total Metals by SW846 3050B/6010C**

Arsenic	4.11	3.41	mg/kg dry	1	1456689	02/10/2015	02/11/2015	
Barium	1970	2.84	"	5	"	"	02/12/2015	

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

Gasoline (C6-C10)	ND	50	mg/kg	1	5B09002	02/09/2015	02/09/2015	
Diesel (C10-C28)	640	50	"	"	"	"	"	
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	

Surrogate: o-Terphenyl	103 %	65-146			"	"	"	
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**Off N**  
**2/6/2015 1:05:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**X502081-02 (Soil)**

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

Arsenic	0.987	3.01	mg/kg dry	1	1456689	02/10/2015	02/11/2015	J
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Origins Laboratory, Inc.



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**Off E**  
**2/6/2015 1:10:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**X502081-03 (Soil)**

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

Arsenic	<b>0.988</b>	2.82	mg/kg dry	1	1456689	02/10/2015	02/11/2015	J
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Origins Laboratory, Inc.



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**Off S**  
**2/6/2015 1:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**X502081-04 (Soil)**

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

Arsenic	1.50	3.13	mg/kg dry	1	1456689	02/10/2015	02/11/2015	J
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Origins Laboratory, Inc.



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**Off W**  
**2/6/2015 1:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**X502081-05 (Soil)**

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

Arsenic	1.56	2.86	mg/kg dry	1	1456689	02/10/2015	02/11/2015	J
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**Off Comp**  
**2/6/2015 1:25:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X502081-06 (Soil)**

**pH in Soil by EPA 9045D**

pH	6.98		pH Units	1	5B09008	02/09/2015	02/09/2015	
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**SAR Metals by SW846 3050B/6010C**

Calcium	1010	23.3	mg/kg dry	1	1456688	02/10/2015	02/11/2015	
Magnesium	572	28.0	"	"	"	"	"	
Sodium	27.8	23.3	"	"	"	"	"	

**Sodium Adsorption Ratio**

Sodium Adsorption Ratio	0.173		none	1	1458262		02/16/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.0296		mmhos/cm	1	5B09009	02/09/2015	02/09/2015	
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**Total Metals by SW846 3050B/6010C**

Arsenic	1.39	2.80	mg/kg dry	1	1456689	02/10/2015	02/11/2015	J
Barium	32.1	0.466	"	"	"	"	"	

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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 5B09007 - EPA 5030 (soil)**

**Blank (5B09007-BLK1)**

Prepared: 02/09/2015 Analyzed: 02/09/2015

Benzene	ND	0.002	mg/kg							Ua
Toluene	ND	0.002	"							Ua
Ethylbenzene	ND	0.002	"							Ua
Xylenes, total	ND	0.002	"							Ua
<i>Surrogate: 1,2-Dichloroethane-d4</i>	81		ug/kg	62.5		130	70-130			
<i>Surrogate: Toluene-d8</i>	64		"	62.5		103	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	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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**Batch 5B09007 - EPA 5030 (soil)**

**LCS (5B09007-BS1)**

Prepared: 02/09/2015 Analyzed: 02/09/2015

Benzene	0.080	0.002	mg/kg	0.100		80.2	77.1-124			
Toluene	0.083	0.002	"	0.100		83.2	74.5-128			
Ethylbenzene	0.083	0.002	"	0.100		82.6	66.4-127			
m,p-Xylene	0.167	0.004	"	0.200		83.7	76.6-124			
o-Xylene	0.086	0.002	"	0.100		86.3	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	79		ug/kg	62.5		126	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	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 5B09007 - EPA 5030 (soil)

Matrix Spike (5B09007-MS1)	Source: X502080-01			Prepared: 02/09/2015 Analyzed: 02/09/2015						
Benzene	0.094	0.002	mg/kg	0.100	ND	94.0	71.8-126			
Toluene	0.095	0.002	"	0.100	ND	95.3	65.1-130			
Ethylbenzene	0.096	0.002	"	0.100	ND	95.9	62.2-130			
m,p-Xylene	0.191	0.004	"	0.200	ND	95.7	46.5-137			
o-Xylene	0.102	0.002	"	0.100	ND	102	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	79		ug/kg	62.5		126	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	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 5B09007 - EPA 5030 (soil)**

<b>Matrix Spike Dup (5B09007-MSD1)</b>	<b>Source: X502080-01</b>			<b>Prepared: 02/09/2015 Analyzed: 02/09/2015</b>						
Benzene	0.094	0.002	mg/kg	0.100	ND	94.0	71.8-126	0.00	11.3	
Toluene	0.095	0.002	"	0.100	ND	95.3	65.1-130	0.00	15.4	
Ethylbenzene	0.096	0.002	"	0.100	ND	95.9	62.2-130	0.00	19.6	
m,p-Xylene	0.191	0.004	"	0.200	ND	95.7	46.5-137	0.00	19.2	
o-Xylene	0.102	0.002	"	0.100	ND	102	54.2-134	0.00	17.9	
Surrogate: 1,2-Dichloroethane-d4	79		ug/kg	62.5		126	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	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 5B09002 - EPA 3580**

**Blank (5B09002-BLK1)**

Prepared: 02/09/2015 Analyzed: 02/09/2015

Gasoline (C6-C10)	ND	50	mg/kg							
Diesel (C10-C28)	ND	50	"							
Residual Range Organics (C28-C40)	ND	200	"							

Surrogate: o-Terphenyl 44.3 " 50.0 88.5 65-146

**LCS (5B09002-BS1)**

Prepared: 02/09/2015 Analyzed: 02/09/2015

Gasoline (C6-C10)	900	50	mg/kg	1000		90.5	66.7-119			
Diesel (C10-C28)	960	50	"	1000		95.5	70.1-127			
Residual Range Organics (C28-C40)	1000	200	"	1000		104	54.5-139			

Surrogate: o-Terphenyl 53.1 " 50.0 106 65-146

**Matrix Spike (5B09002-MS1)**

Source: X502069-01

Prepared: 02/09/2015 Analyzed: 02/09/2015

Gasoline (C6-C10)	890	50	mg/kg	1000	25	86.7	56.4-132			
Diesel (C10-C28)	940	50	"	1000	19	92.3	57.4-138			
Residual Range Organics (C28-C40)	1000	200	"	1000	18	98.9	47.7-129			

Surrogate: o-Terphenyl 51.0 " 50.0 102 65-146

**Matrix Spike Dup (5B09002-MSD1)**

Source: X502069-01

Prepared: 02/09/2015 Analyzed: 02/09/2015

Gasoline (C6-C10)	830	50	mg/kg	1000	25	81.0	56.4-132	6.60	22	
Diesel (C10-C28)	910	50	"	1000	19	89.1	57.4-138	3.52	18.3	
Residual Range Organics (C28-C40)	1000	200	"	1000	18	98.0	47.7-129	0.959	30.1	

Surrogate: o-Terphenyl 50.7 " 50.0 101 65-146

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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 5B09008 - NO PREP</b>										
<b>Duplicate (5B09008-DUP1)</b>		<b>Source: X502080-01</b>			Prepared: 02/09/2015 Analyzed: 02/09/2015					
pH	7.27		pH Units		7.29			0.275	25	
<b>Batch 5B09009 - NO PREP</b>										
<b>Blank (5B09009-BLK1)</b>		Prepared: 02/09/2015 Analyzed: 02/09/2015								
Specific Conductance (EC)	0.00280		mmhos/cm							
<b>Duplicate (5B09009-DUP1)</b>		<b>Source: X502080-01</b>			Prepared: 02/09/2015 Analyzed: 02/09/2015					
Specific Conductance (EC)	0.0173		mmhos/cm		0.0185			6.70	25	

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

Justin Solomon  
 Project Number: 014211290-367  
 Project: KMG - Gobbler 15N-22HZ

**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 1456967 - SW846 3010A</b>										
<b>MS (1203261754 S)</b>										
			<b>Source: X502081-01</b>		Prepared: 02/11/2015 Analyzed: 02/11/2015					
Arsenic	4.40	0.300	mg/L	5.00	<0.050	87.3	75-125			
<b>TB (1203261755-BLK)</b>										
					Prepared: 02/11/2015 Analyzed: 02/11/2015					
Arsenic	ND	0.300	mg/L				-			U
<b>BLANK (1203262607-BLK)</b>										
					Prepared: 02/11/2015 Analyzed: 02/11/2015					
Arsenic	ND	0.300	mg/L				-			U
<b>LCS (1203262608-BKS)</b>										
					Prepared: 02/11/2015 Analyzed: 02/11/2015					
Arsenic	4.76	0.300	mg/L	5.00		95.2	80-120			
<b>DUP (1203262609 D)</b>										
			<b>Source: X502081-01</b>		Prepared: 02/11/2015 Analyzed: 02/11/2015					
Arsenic	ND	0.300	mg/L		<0.050		0-20	NR	20	U

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**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
<b>Batch 1456689 - SW846 3050B</b>										
<b>BLANK (1203261837-BLK)</b>					Prepared: 02/10/2015 Analyzed: 02/11/2015					
Barium	ND	0.483	mg/kg				-			U
Arsenic	ND	2.90	"				-			U
<b>LCS (1203261838-BKS)</b>					Prepared: 02/10/2015 Analyzed: 02/11/2015					
Barium	48.8	0.478	mg/kg	47.8		102	80-120			
Arsenic	49.8	2.87	"	47.8		104	80-120			
<b>DUP (1203261839 D)</b>		<b>Source: X502081-01</b>			Prepared: 02/10/2015 Analyzed: 02/11/2015					
Arsenic	4.22	3.38	mg/kg dry		4.11		0-20	2.79	20	
Barium	2320	2.81	"		1970		0-20	16.4	20	
<b>MS (1203261840 S)</b>		<b>Source: X502081-01</b>			Prepared: 02/10/2015 Analyzed: 02/12/2015					
Barium	1710	2.73	mg/kg dry	54.6	1970	0	75-125			
Arsenic	58.3	3.28	"	54.6	4.11	99.3	75-125			

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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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Jen Pellegrini For Noelle Doyle Mathis, President