

February 17, 2015

LT Environmental, Inc.

Justin Solomon

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Badding 34N-2Hz

Project Number - 014211290-345

Attached are your analytical results for KMG - Badding 34N-2Hz received by Origins Laboratory, Inc. February 06, 2015. This project is associated with Origins project number X502082-01.

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



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

Justin Solomon  
Project Number: 014211290-345  
Project: KMG - Badding 34N-2Hz

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pad Comp	X502082-01	Soil	February 6, 2015 15:55	02/06/2015 17:38
Off N	X502082-02	Soil	February 6, 2015 15:40	02/06/2015 17:38
Off E	X502082-03	Soil	February 6, 2015 15:35	02/06/2015 17:38
Off S	X502082-04	Soil	February 6, 2015 15:50	02/06/2015 17:38
Off W	X502082-05	Soil	February 6, 2015 15:45	02/06/2015 17:38
Off Comp	X502082-06	Soil	February 6, 2015 15:50	02/06/2015 17:38

Origins Laboratory, Inc.



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LT Environmental, Inc.  
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Justin Solomon  
 Project Number: 014211290-345  
 Project: KMG - Badding 34N-2Hz

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

Sample Receipt Checklist

Origins Work Order: XS02082 Client: LTE  
 Client Project ID: Badding 34N-2Hz  
 Checklist Completed by: Jeff Smith Shipped Via: H/D - carrier  
 Date/time completed: 2/6/15 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: NA  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1 / 5.8 °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C (Describe)  
 Thermometer ID: TC03

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			P4
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 HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> / ( pH >10 for samples preserved with NaAsO <sub>2</sub> +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 (Project Manager) [Signature] Date/Time Reviewed 02-09-15

Origins Laboratory, Inc.

Jefe Pellegrini

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Justin Solomon  
 Project Number: 014211290-345  
 Project: KMG - Badding 34N-2Hz

**Pad Comp**  
**2/6/2015 3:55:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X502082-01 (Soil)**

**BTEX by EPA 8260C**

Benzene	ND	0.002	mg/kg	1	5B09007	02/09/2015	02/10/2015	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	141 %	70-130			"	"	"	S-07
Surrogate: Toluene-d8	106 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

**pH in Soil by EPA 9045D**

pH	8.23		pH Units	1	5B09008	02/09/2015	02/09/2015	
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**SAR Metals by SW846 3050B/6010C**

Calcium	5760	26.4	mg/kg dry	1	1456688	02/10/2015	02/11/2015	
Magnesium	1400	31.7	"	"	"	"	"	
Sodium	397	26.4	"	"	"	"	"	

**Sodium Adsorption Ratio**

Sodium Adsorption Ratio	1.22		none	1	1458262		02/16/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.286		mmhos/cm	1	5B09009	02/09/2015	02/09/2015	
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 Project Number: 014211290-345  
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**Pad Comp**  
**2/6/2015 3:55:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X502082-01 (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	2.98	3.17	mg/kg dry	1	1456689	02/10/2015	02/11/2015	J
Barium	1360	0.528	"	"	"	"	"	

**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)	ND	50	"	"	"	"	"	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	

Surrogate: o-Terphenyl	101 %	65-146			"	"	"	
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**Off N**  
**2/6/2015 3:40:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**X502082-02 (Soil)**

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

Arsenic	2.28	2.91	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 3:35:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**X502082-03 (Soil)**

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

Arsenic	2.06	3.25	mg/kg dry	1	1456689	02/10/2015	02/11/2015	J
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Project: KMG - Badding 34N-2Hz

**Off S**  
**2/6/2015 3:50:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**X502082-04 (Soil)**

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

Arsenic	1.91	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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4600 West 60th Avenue  
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Project Number: 014211290-345  
Project: KMG - Badding 34N-2Hz

Off W  
2/6/2015 3:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
X502082-05 (Soil)

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

Arsenic	3.96	2.85	mg/kg dry	1	1456689	02/10/2015	02/11/2015	
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**Off Comp**  
**2/6/2015 3:50:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X502082-06 (Soil)**

**pH in Soil by EPA 9045D**

pH	6.61		pH Units	1	5B09008	02/09/2015	02/09/2015	
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**SAR Metals by SW846 3050B/6010C**

Calcium	699	26.2	mg/kg dry	1	1456688	02/10/2015	02/11/2015	
Magnesium	701	31.5	"	"	"	"	"	
Sodium	16.4	26.2	"	"	"	"	"	J

**Sodium Adsorption Ratio**

Sodium Adsorption Ratio	0.105		none	1	1458262		02/16/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.0123		mmhos/cm	1	5B09009	02/09/2015	02/09/2015	
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**Total Metals by SW846 3050B/6010C**

Arsenic	2.26	3.15	mg/kg dry	1	1456689	02/10/2015	02/11/2015	J
Barium	44.3	0.525	"	"	"	"	"	

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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							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	81		ug/kg	62.5		130	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	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)**

<b>Matrix Spike (5B09007-MS1)</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			
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 8015M - 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-C36)	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-C36)	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-C36)	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-C36)	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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 Project Number: 014211290-345  
 Project: KMG - Badding 34N-2Hz

**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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**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: 366775001</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: 366775001</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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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

Justin Solomon  
 Project Number: 014211290-345  
 Project: KMG - Badding 34N-2Hz

**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: 366775001</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: 366775001</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**

- U Result not detected above the detection limit
- S-07 High surrogate in sample, however sample is non-detect. High surrogate indicates result values are biased high.
- 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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