



# Department of Purchasing & Contract Compliance

March 18, 2014

Re: **#14ITB92030K-JD-Wolf Creek Multi-Use Trail/Pedestrian Bridge Project**

Dear Bidders:

Attached is one (1) copy of Addendum 1, hereby made a part of the above referenced **#14ITB92030K-JD-Wolf Creek Multi-Use Trail/Pedestrian Bridge Project**.

Except as provided herein, all terms and conditions in the **#14ITB92030K-JD-Wolf Creek Multi-Use Trail/Pedestrian Bridge Project** referenced above remain unchanged and in full force and effect.

Sincerely,

*Joyce Daniel*

Joyce Daniel, CPPB  
Assistant Purchasing Agent

Winner 2000 - 2009 Achievement of Excellence in  
Procurement Award • National Purchasing Institute



**#14ITB92030K-JD-Wolf Creek Multi-Use Trail/Pedestrian Bridge Project**  
**Addendum No. 1**  
**Page Two**

This Addendum forms a part of the contract documents and **modifies** the original ITB documents as noted below:

**Revised: Section 11, Appendices**

**Appendix F: The Wolf Creek Multi-Use Trail, Soil Screening and Worker Precautionary Standards is added. See Attachment A.**

**ACKNOWLEDGEMENT OF ADDENDUM NO. 1**

The undersigned proposer acknowledges receipt of this addendum by returning one (1) copy of this form with the proposal package to the Department of Purchasing & Contract Compliance, Fulton County Public Safety Building, 130 Peachtree Street, Suite 1168, Atlanta, Georgia 30303 by the ITB due date and time **Monday, March 31, 2014, 11:00 A.M.**

This is to acknowledge receipt of Addendum No. 1, \_\_\_\_\_ day of \_\_\_\_\_, 2014.

\_\_\_\_\_  
Legal Name of Bidder

\_\_\_\_\_  
Signature of Authorized Representative

\_\_\_\_\_  
Title

## **ATTACHMENT A**

### **Appendix F: The Wolf Creek Multi-Use Trail, Soil Screening and Worker Precautionary Standards**



## GT HILL PLANNERS

December 2, 2013

Tom Fravel, PE  
Branch Manager  
American Engineers, Inc.  
1634 White Circle, Suite 101  
Marietta, GA 30066

Re: Wolf Creek Multi-Use Trail, Soil Screening and Worker Precautionary Standards

Dear Mr. Fravel:

In accordance with the sub consultant agreement dated October 10, 2013, GT Hill Planners Corp. (GT Hill) has performed a limited soil screening along the proposed alignment of the Wolf Creek Trail.

### Description of the Project

The proposed Wolf Creek Multi-Use Trail would be constructed on both existing and new alignment on property currently owned by Fulton County. The 114.6 acre property is located at 3070 Merk Road, in southwest Fulton County. The trail would primarily provide a pathway with which to access the Wolf Creek Amphitheater from nearby parking in an unpaved field. The existing alignment portion would follow the existing Wolf Creek Amphitheater driveway. The new location segment would run approximately 0.25 mile and be constructed along the northern edge of the existing Tom Lowe Trap and Skeet Range.

### Soil Screening

The soil screening took place on the new location portion of the proposed trail. The property is currently utilized as a skeet and trap shooting facility for shotgun use only. The primary environmental concern with facilities of this nature are Lead soil and groundwater contamination associated with the Lead shot. Also associated with Lead shot is the metal Antimony. The primary purpose of the screening was to evaluate risks to workers during the construction of the project. It is GT Hill's understanding that the Georgia Department of Natural Resources (DNR) Environmental Protection Division (EPD) Land Protection Branch is aware of the general condition of the site, including the existing Lead shot.

GT Hill Planners completed soil sampling on the morning of November 25, 2013. A total of eight samples were collected from the ground surface or near surface sampling locations, see Figures 1 through 3 and Table 1, below. Lead shot was evident on the ground surface from approximately Station 16+50 through 22+00.

Soil sampling used standard sampling methods and samples were containerized in 8 oz. jars. The samples were received by Test America Laboratories, Savannah, GA location on November 7, 2013, properly preserved and intact. Samples were analyzed by Environmental Protection Agency (EPA) method SW846, *Test Methods For Evaluating Solid Waste, Physical/Chemical Methods*, Third Edition, November 1986 and its updates. The results of the Analysis are presented in Table 1, see appendix A – Analytical Report for additional details.

Table 1 – Sample and Analysis Summary

Sample ID	Soil Horizon	Soil Lead Concentration (mg/kg)	Soil Antimony Concentration (mg/kg)
WC-1	Surface	100	NA
WC-2	Surface	34	NA
WC-3	Near Surface (<1 ft bgs)	120	2.4 U
WC-4	Surface	<b>2,200</b>	<b>15</b>
WC-5	Surface	<b>50,000</b>	<b>2,200</b>
WC-6	Surface	<b>5,600</b>	NA
WC-7	Near Surface (<1 ft bgs)	<b>600</b>	NA
WC-8	Surface	93	NA

**Bgs – below ground surface**  
**NA – Not Analyzed**  
**U – Indicates the analyte was analyzed for but not detected.**  
**Bolded values indicate concentration above notification limits.**  
**EPD Lead Notification Limit, Soil= 400 mg/kg**  
**EPD Antimony Notification Limit, Soil = 10 mg/kg or above background, whichever is higher**

The results of the sample analysis indicate that lead and soil contamination correlate well with the dispersion of visually discernible lead shot on the ground surface. Both Lead and Antimony soil concentrations are above notification limits per Chapter 391-3-19, Rules of DNR EPD. The owner of the facility must provide notification to DNR if this has not already been done. Additionally, the site conditions may warrant cleanup of contaminated soils.

As noted above, the sampling performed by GT Hill was not intended to be a delineation of contamination, an assessment of potential effects on future users of the trail or nearby residents, nor a full assessment of potential environmental impacts associated with the contaminations, but rather a screening for potential effects to future site construction workers.

#### Worker Restrictions

The contract documents should note the likelihood of lead contamination in the soil and airborne dust at the project site. The contractor must provide a safe work environment for all construction workers onsite.

The Occupational Safety and Health Administration (OSHA) has developed a *Construction Lead Standard*, Title 29 Code of Federal Regulations (29 CFR) Part 1910.62 which specifies the permissible exposure limit (PEL) of lead in construction workplaces, the frequency and extent of medical monitoring, and other responsibilities of the employer. The general contractor for the proposed construction must comply with all applicable requirements of 29 CFR 1910.62.

In general, the contractor shall initially determine if any employee may be exposed to lead at or above the action level. This assessment will be performed for all classes of workers at the site. Until such determination has been performed, all workers shall be protected in accordance with 29 CFR 1926.62(d)(2)(v), which includes specifications regarding appropriate personal protective equipment (PPE), biological monitoring and training (29 CFP 1926.59).



### Soil Disposal

The contamination present in the soil also presents difficulties with regards to soil disposal. The proposed construction design indicates that the majority of the trail will be built upon fill material, however some material will be cut in isolated areas of the site. The contractor should make every effort to use all cut material onsite.

Any soils disposed of offsite shall be properly characterized in accordance with 40 CFR part 261 – *Identification and Listing of Hazardous Waste* prior to disposal. Should the characterization of site soils determine them to be classified as hazardous waste, the contractor must also comply with the requirements of 40 CFR parts 261 and 262, which deal with the generation and transport of solid waste. Any hazardous wastes generated onsite must be disposed of in a properly permitted hazardous waste disposal facility.

### Conclusions

The site exhibits elevated levels of Lead and Antimony in soil that are indicative of the current and former use of the facility. The analysis results indicate that contamination levels are high enough to trigger notification requirements set forth by EPD. It is GT Hill's understanding that EPD is aware of the site conditions. The site is located across Merk Road from the Fulton County Landfill. The landfill is listed on the EPD Hazardous Site Inventory (HSI) as Site No. 10663. The Description of Site No. 10663 does not indicate that the subject property is included in the HSI. If it is the owner's understanding that the subject site is within the bounds of the existing Site No. 10663, then documentation stating such should be requested from EPD. If this is not the case, however, please note that it is the owner's responsibility to notify EPD within 30 days. GT Hill can assist with the notification if required.

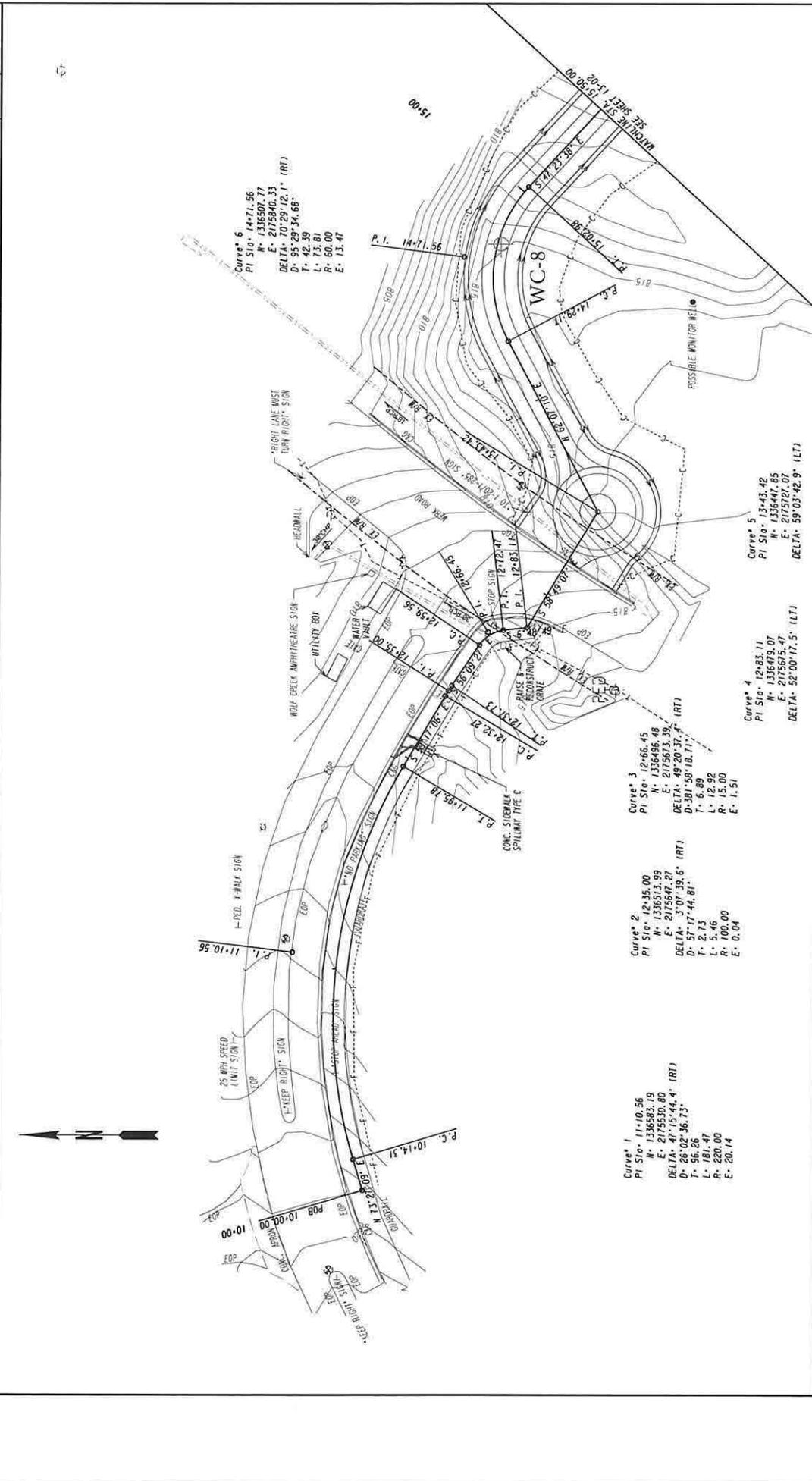
Please do not hesitate to contact Todd Hill at 678-205-7315 or me at 770-900-7618 with any questions regarding this letter.

Sincerely,



Eric Nicoletti, PE  
Environmental Planner,  
GT Hill Planners Corporation





PLANS PREPARED AND MARKED BY: AMERICAN ENGINEERS, INC. (Professional Engineer Seal)

REVISION DATES:


SCALE IN FEET: 0 20 40 80

PROPERTY AND EXISTING ROW LINE  
 CONSTRUCTED ROW LINE  
 CONSTRUCTION LIMITS  
 EASEMENT FOR CONSTR. & MAINTENANCE OF SLOPES  
 EASEMENT FOR CONSTR. OF SLOPES  
 EASEMENT FOR CONSTR. OF DRIVES

BEGIN LIMIT OF ACCESS  
 END LIMIT OF ACCESS  
 LIMIT OF ACCESS  
 REQ'D ROW & LIMIT OF ACCESS

OFFICE: FACILITIES & TRANSPORTATION SERVICES  
**SAMPLE LOCATION PLAN**  
 WOLF CREEK MULTI-USE TRAIL  
 SHEET NO. 13-01





## Appendix A

Analytical Report  
TestAmerica laboratories, Inc.

November 19, 2013

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404  
Tel: (912)354-7858

TestAmerica Job ID: 680-95958-1  
Client Project/Site: Wolf Creek

For:  
GT Hill Planners  
270 Peachtree St NW  
Suite 1500  
Atlanta, Georgia 30303

Attn: Eric Nicoletti

*Linda A. Wolfe*

Authorized for release by:  
11/19/2013 5:59:30 PM

Linda Wolfe, Project Manager II  
(912)354-7858 e.3005  
linda.wolfe@testamericainc.com

### LINKS

Review your project  
results through  
**Total Access**

Have a Question?

**?** Ask  
The  
Expert

Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Sample Summary

Client: GT Hill Planners  
Project/Site: Wolf Creek

TestAmerica Job ID: 680-95958-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-95958-1	WC-1	Solid	11/05/13 07:45	11/07/13 10:01
680-95958-2	WC-2	Solid	11/05/13 07:50	11/07/13 10:01
680-95958-3	WC-3	Solid	11/05/13 08:15	11/07/13 10:01
680-95958-4	WC-4	Solid	11/05/13 08:25	11/07/13 10:01
680-95958-5	WC-5	Solid	11/05/13 08:35	11/07/13 10:01
680-95958-6	WC-6	Solid	11/05/13 08:40	11/07/13 10:01
680-95958-7	WC-7	Solid	11/05/13 08:50	11/07/13 10:01
680-95958-8	WC-8	Solid	11/05/13 09:00	11/07/13 10:01

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TestAmerica Savannah

# Method Summary

Client: GT Hill Planners  
Project/Site: Wolf Creek

TestAmerica Job ID: 680-95958-1

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Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL SAV
Moisture	Percent Moisture	EPA	TAL SAV

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**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



## Case Narrative

Client: GT Hill Planners  
Project/Site: Wolf Creek

TestAmerica Job ID: 680-95958-1

Job ID: 680-95958-1

Laboratory: TestAmerica Savannah

Narrative

### CASE NARRATIVE

Client: GT Hill Planners

Project: Wolf Creek

Report Number: 680-95958-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

#### RECEIPT

The samples were received on 11/07/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.2 C.

#### METALS (ICP)

Samples WC-1 (680-95958-1), WC-2 (680-95958-2), WC-3 (680-95958-3), WC-4 (680-95958-4), WC-5 (680-95958-5), WC-6 (680-95958-6), WC-7 (680-95958-7) and WC-8 (680-95958-8) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 11/12/2013 and analyzed on 11/13/2013 and 11/15/2013.

Antimony failed the recovery criteria low for the MS and MSD of sample WC-1MS (680-95958-1) in batch 680-303223. Due to the high concentration of lead, the matrix spike / matrix spike duplicate (MS/MSD) for lead failed the recovery criteria high. The associated Laboratory Control Sample (LCS) met acceptance criteria.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Samples WC-4 (680-95958-4)[10X], WC-5 (680-95958-5)[100X] and WC-6 (680-95958-6)[100X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

#### PERCENT SOLIDS/MOISTURE

Samples WC-1 (680-95958-1), WC-2 (680-95958-2), WC-3 (680-95958-3), WC-4 (680-95958-4), WC-5 (680-95958-5), WC-6 (680-95958-6), WC-7 (680-95958-7) and WC-8 (680-95958-8) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP. The samples were analyzed on 11/09/2013.

No difficulties were encountered during the % solids/moisture analysis.

All quality control parameters were within the acceptance limits.



## Case Narrative

Client: GT Hill Planners  
Project/Site: Wolf Creek

TestAmerica Job ID: 680-95958-1

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**Job ID: 680-95958-1 (Continued)**

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Laboratory: TestAmerica Savannah (Continued)

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## Definitions/Glossary

Client: GT Hill Planners  
Project/Site: Wolf Creek

TestAmerica Job ID: 680-95958-1

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### Qualifiers

#### Metals

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica Savannah

# Client Sample Results

Client: GT Hill Planners  
Project/Site: Wolf Creek

TestAmerica Job ID: 680-95958-1

**Client Sample ID: WC-1**

Date Collected: 11/05/13 07:45  
Date Received: 11/07/13 10:01

**Lab Sample ID: 680-95958-1**

Matrix: Solid  
Percent Solids: 76.2

Method: 6010C - Metals (ICP)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Lead	100		1.3	0.69	mg/Kg	☒	11/12/13 09:20	11/13/13 17:58	1	

**Client Sample ID: WC-2**

Date Collected: 11/05/13 07:50  
Date Received: 11/07/13 10:01

**Lab Sample ID: 680-95958-2**

Matrix: Solid  
Percent Solids: 84.7

Method: 6010C - Metals (ICP)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Lead	34		1.1	0.61	mg/Kg	☒	11/12/13 09:20	11/13/13 18:21	1	

**Client Sample ID: WC-3**

Date Collected: 11/05/13 08:15  
Date Received: 11/07/13 10:01

**Lab Sample ID: 680-95958-3**

Matrix: Solid  
Percent Solids: 81.2

Method: 6010C - Metals (ICP)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Lead	120		1.2	0.63	mg/Kg	☒	11/12/13 09:20	11/13/13 18:26	1	
Antimony	2.4	U	2.4	0.63	mg/Kg	☒	11/12/13 09:20	11/13/13 18:26	1	

**Client Sample ID: WC-4**

Date Collected: 11/05/13 08:25  
Date Received: 11/07/13 10:01

**Lab Sample ID: 680-95958-4**

Matrix: Solid  
Percent Solids: 82.6

Method: 6010C - Metals (ICP)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Lead	2200		10	5.5	mg/Kg	☒	11/12/13 09:20	11/15/13 21:25	10	
Antimony	15		2.1	0.55	mg/Kg	☒	11/12/13 09:20	11/13/13 18:30	1	

**Client Sample ID: WC-5**

Date Collected: 11/05/13 08:35  
Date Received: 11/07/13 10:01

**Lab Sample ID: 680-95958-5**

Matrix: Solid  
Percent Solids: 72.9

Method: 6010C - Metals (ICP)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Lead	50000		130	69	mg/Kg	☒	11/12/13 09:20	11/15/13 21:29	100	
Antimony	2200		260	69	mg/Kg	☒	11/12/13 09:20	11/15/13 21:29	100	

**Client Sample ID: WC-6**

Date Collected: 11/05/13 08:40  
Date Received: 11/07/13 10:01

**Lab Sample ID: 680-95958-6**

Matrix: Solid  
Percent Solids: 83.1

Method: 6010C - Metals (ICP)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Lead	5600		120	63	mg/Kg	☒	11/12/13 09:20	11/15/13 21:34	100	

TestAmerica Savannah



# Client Sample Results

Client: GT Hill Planners  
Project/Site: Wolf Creek

TestAmerica Job ID: 680-95958-1

Client Sample ID: WC-7

Lab Sample ID: 680-95958-7

Date Collected: 11/05/13 08:50

Matrix: Solid

Date Received: 11/07/13 10:01

Percent Solids: 85.6

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	600		1.1	0.58	mg/Kg	☒	11/12/13 09:20	11/13/13 18:53	1

Client Sample ID: WC-8

Lab Sample ID: 680-95958-8

Date Collected: 11/05/13 09:00

Matrix: Solid

Date Received: 11/07/13 10:01

Percent Solids: 85.9

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	93		1.1	0.58	mg/Kg	☒	11/12/13 09:20	11/13/13 18:58	1



## QC Sample Results

Client: GT Hill Planners  
Project/Site: Wolf Creek

TestAmerica Job ID: 680-95958-1

### Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-302756/1-A      Client Sample ID: Method Blank  
Matrix: Solid      Prep Type: Total/NA  
Analysis Batch: 303223      Prep Batch: 302756

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	1.0	U	1.0	0.53	mg/Kg		11/12/13 09:20	11/13/13 17:49	1
Antimony	2.0	U	2.0	0.53	mg/Kg		11/12/13 09:20	11/13/13 17:49	1

Lab Sample ID: LCS 680-302756/2-A      Client Sample ID: Lab Control Sample  
Matrix: Solid      Prep Type: Total/NA  
Analysis Batch: 303223      Prep Batch: 302756

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	5.00	4.75		mg/Kg		95	75 - 125

Lab Sample ID: 680-95958-1 MS      Client Sample ID: WC-1  
Matrix: Solid      Prep Type: Total/NA  
Analysis Batch: 303223      Prep Batch: 302756

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.2		6.43	4.51	F	mg/Kg	☒	51	75 - 125

Lab Sample ID: 680-95958-1 MSD      Client Sample ID: WC-1  
Matrix: Solid      Prep Type: Total/NA  
Analysis Batch: 303223      Prep Batch: 302756

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
										RPD	Limit
Lead	100		6.43	154	4	mg/Kg	☒	840	75 - 125	10	20
Antimony	1.2		6.43	4.58	F	mg/Kg	☒	52	75 - 125	2	20

TestAmerica Savannah



## QC Association Summary

Client: GT Hill Planners  
Project/Site: Wolf Creek

TestAmerica Job ID: 680-95958-1



### Metals

#### Prep Batch: 302756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-95958-1	WC-1	Total/NA	Solid	3050B	
680-95958-1 MS	WC-1	Total/NA	Solid	3050B	
680-95958-1 MSD	WC-1	Total/NA	Solid	3050B	
680-95958-2	WC-2	Total/NA	Solid	3050B	
680-95958-3	WC-3	Total/NA	Solid	3050B	
680-95958-4	WC-4	Total/NA	Solid	3050B	
680-95958-5	WC-5	Total/NA	Solid	3050B	
680-95958-6	WC-6	Total/NA	Solid	3050B	
680-95958-7	WC-7	Total/NA	Solid	3050B	
680-95958-8	WC-8	Total/NA	Solid	3050B	
LCS 680-302756/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 680-302756/1-A	Method Blank	Total/NA	Solid	3050B	

#### Analysis Batch: 303223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-95958-1	WC-1	Total/NA	Solid	6010C	302756
680-95958-1 MS	WC-1	Total/NA	Solid	6010C	302756
680-95958-1 MSD	WC-1	Total/NA	Solid	6010C	302756
680-95958-2	WC-2	Total/NA	Solid	6010C	302756
680-95958-3	WC-3	Total/NA	Solid	6010C	302756
680-95958-4	WC-4	Total/NA	Solid	6010C	302756
680-95958-7	WC-7	Total/NA	Solid	6010C	302756
680-95958-8	WC-8	Total/NA	Solid	6010C	302756
LCS 680-302756/2-A	Lab Control Sample	Total/NA	Solid	6010C	302756
MB 680-302756/1-A	Method Blank	Total/NA	Solid	6010C	302756

#### Analysis Batch: 303580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-95958-4	WC-4	Total/NA	Solid	6010C	302756
680-95958-5	WC-5	Total/NA	Solid	6010C	302756
680-95958-6	WC-6	Total/NA	Solid	6010C	302756

### General Chemistry

#### Analysis Batch: 302461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-95958-1	WC-1	Total/NA	Solid	Moisture	
680-95958-2	WC-2	Total/NA	Solid	Moisture	
680-95958-3	WC-3	Total/NA	Solid	Moisture	
680-95958-4	WC-4	Total/NA	Solid	Moisture	
680-95958-5	WC-5	Total/NA	Solid	Moisture	
680-95958-6	WC-6	Total/NA	Solid	Moisture	
680-95958-7	WC-7	Total/NA	Solid	Moisture	
680-95958-8	WC-8	Total/NA	Solid	Moisture	

# Lab Chronicle

Client: GT Hill Planners  
Project/Site: Wolf Creek

TestAmerica Job ID: 680-95958-1

## Client Sample ID: WC-1

Lab Sample ID: 680-95958-1

Date Collected: 11/05/13 07:45

Matrix: Solid

Date Received: 11/07/13 10:01

Percent Solids: 76.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			302756	11/12/13 09:20	JKL	TAL SAV
Total/NA	Analysis	6010C		1	303223	11/13/13 17:58	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	302461	11/09/13 12:49	OP	TAL SAV

## Client Sample ID: WC-2

Lab Sample ID: 680-95958-2

Date Collected: 11/05/13 07:50

Matrix: Solid

Date Received: 11/07/13 10:01

Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			302756	11/12/13 09:20	JKL	TAL SAV
Total/NA	Analysis	6010C		1	303223	11/13/13 18:21	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	302461	11/09/13 12:49	OP	TAL SAV

## Client Sample ID: WC-3

Lab Sample ID: 680-95958-3

Date Collected: 11/05/13 08:15

Matrix: Solid

Date Received: 11/07/13 10:01

Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			302756	11/12/13 09:20	JKL	TAL SAV
Total/NA	Analysis	6010C		1	303223	11/13/13 18:26	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	302461	11/09/13 12:49	OP	TAL SAV

## Client Sample ID: WC-4

Lab Sample ID: 680-95958-4

Date Collected: 11/05/13 08:25

Matrix: Solid

Date Received: 11/07/13 10:01

Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			302756	11/12/13 09:20	JKL	TAL SAV
Total/NA	Analysis	6010C		1	303223	11/13/13 18:30	BCB	TAL SAV
Total/NA	Analysis	6010C		10	303580	11/15/13 21:25	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	302461	11/09/13 12:49	OP	TAL SAV

## Client Sample ID: WC-5

Lab Sample ID: 680-95958-5

Date Collected: 11/05/13 08:35

Matrix: Solid

Date Received: 11/07/13 10:01

Percent Solids: 72.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			302756	11/12/13 09:20	JKL	TAL SAV
Total/NA	Analysis	6010C		100	303580	11/15/13 21:29	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	302461	11/09/13 12:49	OP	TAL SAV

TestAmerica Savannah



# Lab Chronicle

Client: GT Hill Planners  
Project/Site: Wolf Creek

TestAmerica Job ID: 680-95958-1

**Client Sample ID: WC-6**

**Lab Sample ID: 680-95958-6**

Date Collected: 11/05/13 08:40

Matrix: Solid

Date Received: 11/07/13 10:01

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			302756	11/12/13 09:20	JKL	TAL SAV
Total/NA	Analysis	6010C		100	303580	11/15/13 21:34	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	302461	11/09/13 12:49	OP	TAL SAV

**Client Sample ID: WC-7**

**Lab Sample ID: 680-95958-7**

Date Collected: 11/05/13 08:50

Matrix: Solid

Date Received: 11/07/13 10:01

Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			302756	11/12/13 09:20	JKL	TAL SAV
Total/NA	Analysis	6010C		1	303223	11/13/13 18:53	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	302461	11/09/13 12:49	OP	TAL SAV

**Client Sample ID: WC-8**

**Lab Sample ID: 680-95958-8**

Date Collected: 11/05/13 09:00

Matrix: Solid

Date Received: 11/07/13 10:01

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			302756	11/12/13 09:20	JKL	TAL SAV
Total/NA	Analysis	6010C		1	303223	11/13/13 18:58	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	302461	11/09/13 12:49	OP	TAL SAV

**Laboratory References:**

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



Serial Number 72163

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404

Website: www.testamericainc.com  
Phone: (912) 354-7858  
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:  
Fax:

PROJECT REFERENCE: **Wolf Creek**  
 TAL (LAB) PROJECT MANAGER:  
 PROJECT NO.: **0313042**  
 P.O. NUMBER:  
 CLIENT (SITE) PM: **Eric Nicoletti**  
 CLIENT PHONE: **7709007618**  
 CLIENT NAME: **Eric Nicoletti**  
 CLIENT E-MAIL: **enicoletti@gtwillkramer.com**  
 CLIENT ADDRESS: **270 Peachtree St, NW Ste 1500**  
 COMPANY CONTRACTING THIS WORK (if applicable):

PROJECT LOCATION (STATE): **GA**  
 CONTRACT NO.:  
 CLIENT FAX:  
 MATRIX TYPE:  
 COMPOSITE (C) OR GRAB (G) INDICATE  
 AQUEOUS (WATER)  
 SOLID OR SEMISOLID  
 NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS: **6010C-26**  
 STANDARD REPORT DELIVERY DATE DUE: **6010C-26**  
 EXPEDITED REPORT DELIVERY (SURCHARGE) DATE DUE: **0**  
 NUMBER OF COOLERS SUBMITTED PER SHIPMENT: **1**

SAMPLE DATE	TIME	SAMPLE IDENTIFICATION	MATRIX TYPE				NUMBER OF CONTAINERS SUBMITTED	REMARKS
			COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)		
11/5/13	7:45 AM	WC-1	X					
	7:50 AM	WC-2	X					
	8:15 AM	WC-3	X					
	8:25 AM	WC-4	X					
	8:35 AM	WC-5	X					
	8:42 AM	WC-6	X					
	8:52 AM	WC-7	X					
	8:00 AM	WC-8	X					



RELINQUISHED BY: (SIGNATURE) **[Signature]** DATE: **11/5/13** TIME: **2:27 PM**  
 RECEIVED BY: (SIGNATURE) **[Signature]** DATE: **11/5/13** TIME: **10:58**  
 RECEIVED FOR LABORATORY BY: (SIGNATURE) **[Signature]** DATE: **11/07/13** TIME: **10:01**

RELINQUISHED BY: (SIGNATURE) DATE: **11/6/13** TIME: **13:00**  
 RECEIVED BY: (SIGNATURE) DATE: TIME:  
 SAVANNAH LOG NO.: **095958**  
 CUSTODY SEAL NO.:  
 CUSTODY INTACT: YES  NO   
 LABORATORY REMARKS: **5.20**

## Login Sample Receipt Checklist

Client: GT Hill Planners

Job Number: 680-95958-1

Login Number: 95958

List Source: TestAmerica Savannah

List Number: 1

Creator: Banda, Christy S

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\neq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Certification Summary

Client: GT Hill Planners  
Project/Site: Wolf Creek

TestAmerica Job ID: 680-95958-1

## Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-15
A2LA	ISO/IEC 17025		399.01	02-28-15
Alabama	State Program	4	41450	06-30-14
Arkansas DEQ	State Program	6	88-0692	02-01-14
California	NELAP	9	3217CA	07-31-14
Colorado	State Program	8	N/A	12-31-13 *
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-14
GA Dept. of Agriculture	State Program	4	N/A	12-31-13 *
Georgia	State Program	4	N/A	06-30-14
Georgia	State Program	4	803	06-30-14
Guam	State Program	9	09-005r	06-17-14
Hawaii	State Program	9	N/A	06-30-14
Illinois	NELAP	5	200022	11-30-13 *
Indiana	State Program	5	N/A	06-30-14
Iowa	State Program	7	353	07-01-15
Kentucky	State Program	4	90084	12-31-13 *
Kentucky (UST)	State Program	4	18	06-30-14
Louisiana	NELAP	6	30690	06-30-14
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13 *
Massachusetts	State Program	1	M-GA006	06-30-14
Michigan	State Program	5	9925	06-30-14
Mississippi	State Program	4	N/A	06-30-14
Montana	State Program	8	CERT0081	01-01-14 *
Nebraska	State Program	7	TestAmerica-Savannah	06-30-14
New Jersey	NELAP	2	GA769	06-30-14
New Mexico	State Program	6	N/A	06-30-14
New York	NELAP	2	10842	04-01-14
North Carolina DENR	State Program	4	269	12-31-13 *
North Carolina DHHS	State Program	4	13701	07-31-14
Oklahoma	State Program	6	9984	08-31-14
Pennsylvania	NELAP	3	68-00474	06-30-14
Puerto Rico	State Program	2	GA00006	01-01-14 *
South Carolina	State Program	4	98001	06-30-14
Tennessee	State Program	4	TN02961	06-30-14
Texas	NELAP	6	T104704185-08-TX	11-30-13 *
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-14
Washington	State Program	10	C1794	06-10-14
West Virginia	State Program	3	9950C	12-31-13 *
West Virginia DEP	State Program	3	94	06-30-14
Wisconsin	State Program	5	999819810	08-31-14
Wyoming	State Program	8	8TMS-L	06-30-14

\* Expired certification is currently pending renewal and is considered valid.

TestAmerica Savannah

