SUMMARY REPORT
47 CAMELLIA DRIVE (FORMERLY 656 CAMELLIA DRIVE)
LAUREL BAY MILITARY HOUSING AREA
MARINE CORPS AIR STATION BEAUFORT
BEAUFORT, SC

Revision: 0
Prepared for:

Department of the Navy
Naval Facilities Engineering Command, Mid-Atlantic
9324 Virginia Avenue
Norfolk, Virginia 23511-3095

and

Naval Facilities Engineering Command Atlantic
9324 Virginia Avenue
Norfolk, Virginia 23511-3095

JUNE 2021

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Prepared by:

CDM - AECOM Multimedia Joint Venture
10560 Arrowhead Drive, Suite 500
Fairfax, Virginia 22030

Contract Number: N62470-14-D-9016
CTO WE52
JUNE 2021

Table of Contents

Table

Appendices

List of Acronyms

bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
CTO	Contract Task Order
COPC	constituents of potential concern
IDIQ	Indefinite Delivery, Indefinite Quantity
IGWA	Initial Groundwater Assessment
JV	Joint Venture
LBMH	Laurel Bay Military Housing
MCAS	Marine Corps Air Station
NAVFAC Mid-Lant	Naval Facilities Engineering Command Mid-Atlantic
NFA	No Further Action
PAH	polynuclear aromatic hydrocarbon
QAPP	Quality Assurance Program Plan
RBSL	risk-based screening level
SCDHEC	South Carolina Department of Health and Environmental Control
Site	LBMH area at MCAS Beaufort, South Carolina
UST	underground storage tank
VISL	vapor intrusion screening level

1.0 INTRODUCTION

The CDM - AECOM Multimedia Joint Venture (JV) was contracted by the Naval Facilities Engineering Command, Mid-Atlantic (NAVFAC Mid-Lant) to provide reporting services for the heating oil underground storage tanks (USTs) located in Laurel Bay Military Housing (LBMH) area at the Marine Corps Air Station (MCAS) Beaufort, South Carolina (Site). This work has been awarded under Contract Task Order (CTO) WE52 of the Indefinite Delivery, Indefinite Quantity (IDIQ) Multimedia Environmental Compliance Contract (Contract No. N62470-14-D-9016).

As of January 2014, the LBMH addresses were re-numbered to comply with the E-911 emergency response addressing system; however, in order to remain consistent with historical sampling and reporting for LBMH area, the residences will continue to be referenced with their original address numbers in sample nomenclature and reporting documents.

This report summarizes the results the environmental investigation activities associated with the storage of home heating oil and the potential release of petroleum constituents at the referenced property. Based on the results of the investigation, a No Further Action (NFA) determination has been made by the South Carolina Department of Health and Environmental Control (SCDHEC) for 47 Camellia Drive (Formerly 656 Camellia Drive). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

- Background information;
- Sampling activities and results; and
- A determination of the property status.

1.1 Background Information

The LBMH area is located approximately 3.5 miles west of MCAS Beaufort. The area is approximately 970 acres in size and serves as an enlisted and officer family housing area. The area is configured with single family and duplex residential structures, and includes recreation, open space, and community facilities. The community includes approximately 1,300 housing units, including legacy Capehart style homes and newer duplex style homes. The housing area is bordered on the west by salt marshes and the Broad River, and to the north, east and south by uplands. Forested areas lie along the northern and northeastern borders.

Capehart style homes within the LBMH area were formerly heated using heating oil stored in USTs at each residence. There were 1,100 Capehart style housing units in the LBMH area. The newer duplex homes within the LBMH area never utilized heating oil tanks. Heating oil has not been used at Laurel Bay since the mid-1980s. As was the accepted practice at the time, USTs were drained, filled with dirt, capped, and left in place when they were removed from service. Residential USTs are not regulated in the State of South Carolina (i.e., there are no federal or state laws governing installation, management, or removal).

In 2007, MCAS Beaufort began a voluntary program to remove the unregulated, residential USTs and conduct sampling activities to determine if, and to what extent, petroleum constituents may have impacted the surrounding environment. MCAS Beaufort coordinated with SCDHEC to develop removal procedures that were consistent with procedural requirements for regulated USTs. All tank removal activities and follow-on actions are conducted in coordination with SCDHEC. To date, all known USTs have been removed from all residential properties within the LBMH area.

1.2 UST Removal and Assessment Process

During the UST removal process, a soil sample was collected from beneath the UST excavations (approximately 4 to 6 feet [ft] below ground surface [bgs]) and analyzed for a predetermined list of constituents of potential concern (COPCs) associated with the petroleum compounds found in home heating oil. These COPCs, derived from the *Quality Assurance Program Plan (QAPP) for the Underground Storage Tank Management Division, Revision 3.1* (SCDHEC, 2016) and the *Underground Storage Tank Assessment Instructions for Permanent Closure and Change-In-Service,* (SCDHEC, 2018), are as follows:

- benzene, toluene, ethylbenzene, and xylenes (BTEX),
- naphthalene, and
- five select polynuclear aromatic hydrocarbon (PAHs): benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene and dibenz(a,h)anthracene.

Soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form. In accordance with SCDHEC's *QAPP for the UST Management Division* (SCDHEC, 2016), the soil screening levels consists of SCDHEC risk-based screening levels (RBSLs). It should be noted that the RBSLs for select PAHs were revised in Revision 2.0 of the QAPP (SCDHEC, 2013) and were revised again in Revision 3.0 (SCDHEC, 2015). The screening levels

used for evaluation at each site were those levels that were in effect at the time of reporting and review by SCDHEC.

The results of the soil sampling at each former UST location were used to determine if a potential for groundwater contamination exists (i.e., soil results greater than RBSLs) and subsequently to select properties for follow-up initial groundwater assessment (IGWA) sampling. The results of the IGWA sampling (if necessary) are used to determine the presence or absence of the aforementioned COPCs in groundwater and identify whether former UST locations will require additional delineation of COPCs in groundwater. In order to delineate the extent of impact to groundwater, permanent wells are installed and a sampling program is established for those former UST locations where IGWA sampling has indicated the presence of COPCs in excess of the SCDHEC RBSLs for groundwater. Groundwater analytical results are also compared to the site specific groundwater vapor intrusion screening levels (VISLs) to evaluate the potential for vapor intrusion and the necessity for an investigation associated with this media. A multi-media investigation selection process tree, applicable to the LBMH UST investigations, is presented as Appendix A.

2.0 SAMPLING ACTIVITIES AND RESULTS

The following section presents the sampling activities and associated results for 47 Camellia Drive (Formerly 656 Camellia Drive). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 656 Camellia Drive* (MCAS Beaufort, 2015). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On June 17, 2015, a single 280 gallon heating oil UST was removed from the concrete porch area at 47 Camellia Drive (Formerly 656 Camellia Drive). The former UST location is indicated on Figures 1 and 2 of the UST Assessment Report (Appendix B). The UST was removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of the UST was 6'4" bgs and a single soil sample was collected from that depth. The sample was collected from the fill port side of the former UST to represent a worst case scenario.

Following UST removal, a soil sample was collected from the base of the excavation and shipped to an offsite laboratory for analysis of the petroleum COPCs. Sampling was performed in

accordance with applicable South Carolina regulation R.61-92, Part 280 (SCDHEC, 2017) and assessment guidelines.

2.2 Soil Analytical Results

A summary of the laboratory analytical results and SCDHEC RBSLs is presented in Table 1. A copy of the laboratory analytical data report is included in the UST Assessment Report presented in Appendix B. The laboratory analytical data report includes the soil results for the additional PAHs that were analyzed, but do not have associated RBSLs.

The soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form (Appendix B). The results of the soil sampling at the former UST location were used by MCAS Beaufort, in consultation with SCDHEC, to determine a path forward (i.e., additional sampling or NFA) for the property. The soil results collected from 47 Camellia Drive (Formerly 656 Camellia Drive) were less than the SCDHEC RBSLs, which indicated the subsurface was not impacted by COPCs associated with the former UST at concentrations that presented a potential risk to human health and the environment.

3.0 PROPERTY STATUS

Based on the analytical results for soil, SCDHEC made the determination that NFA was required for 47 Camellia Drive (Formerly 656 Camellia Drive). This NFA determination was obtained in a letter dated August 3, 2016. SCDHEC's NFA letter is provided in Appendix C.

4.0 REFERENCES

Marine Corps Air Station Beaufort, 2015. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 656 Camellia Drive, Laurel Bay Military Housing Area*, November 2015.

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2013. *Quality Assurance Program Plan for the Underground Storage Tank Management* Division*, Revision 2.0*, April 2013.

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2015. *Quality Assurance Program Plan for the Underground Storage Tank Management* Division*, Revision 3.0*, May 2015.

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2016. *Quality Assurance Program Plan for the Underground Storage Tank Management* Division*, Revision 3.1*, February 2016.

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2017*. R.61-92, Part 280, Underground Storage Tank Control Regulations*, March 2017.

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2018. *Underground Storage Tank Assessment Instructions for Permanent Closure and Change-In-Service*, March 2018.

Table

Table 1
Laboratory Analytical Results - Soil
47 Camellia Drive (Formerly 656 Camellia Drive)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs [(1)]	Results Sample Collected 06/17/15
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)		
Benzene	0.003	ND
Ethylbenzene	1.15	ND
Naphthalene	0.036	ND
Toluene	0.627	ND
Xylenes, Total	13.01	ND
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (mg/kg)		
Benzo(a)anthracene	0.66	ND
Benzo(b)fluoranthene	0.66	ND
Benzo(k)fluoranthene	0.66	ND
Chrysene	0.66	ND
Dibenz(a,h)anthracene	0.66	ND

Notes:

[(1)] South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 3.0 and 3.1 (SCDHEC, May 2015 and SCDHEC, February 2016) and the Underground Storage Tank Assessment Guidelines (SCDHEC, February 2006).

Bold font indicates the analyte was detected.

Bold font and shading indicates the concentration exceeds the SCDHEC RBSL.

EPA - United States Environmental Protection Agency

mg/kg - milligram per kilogram

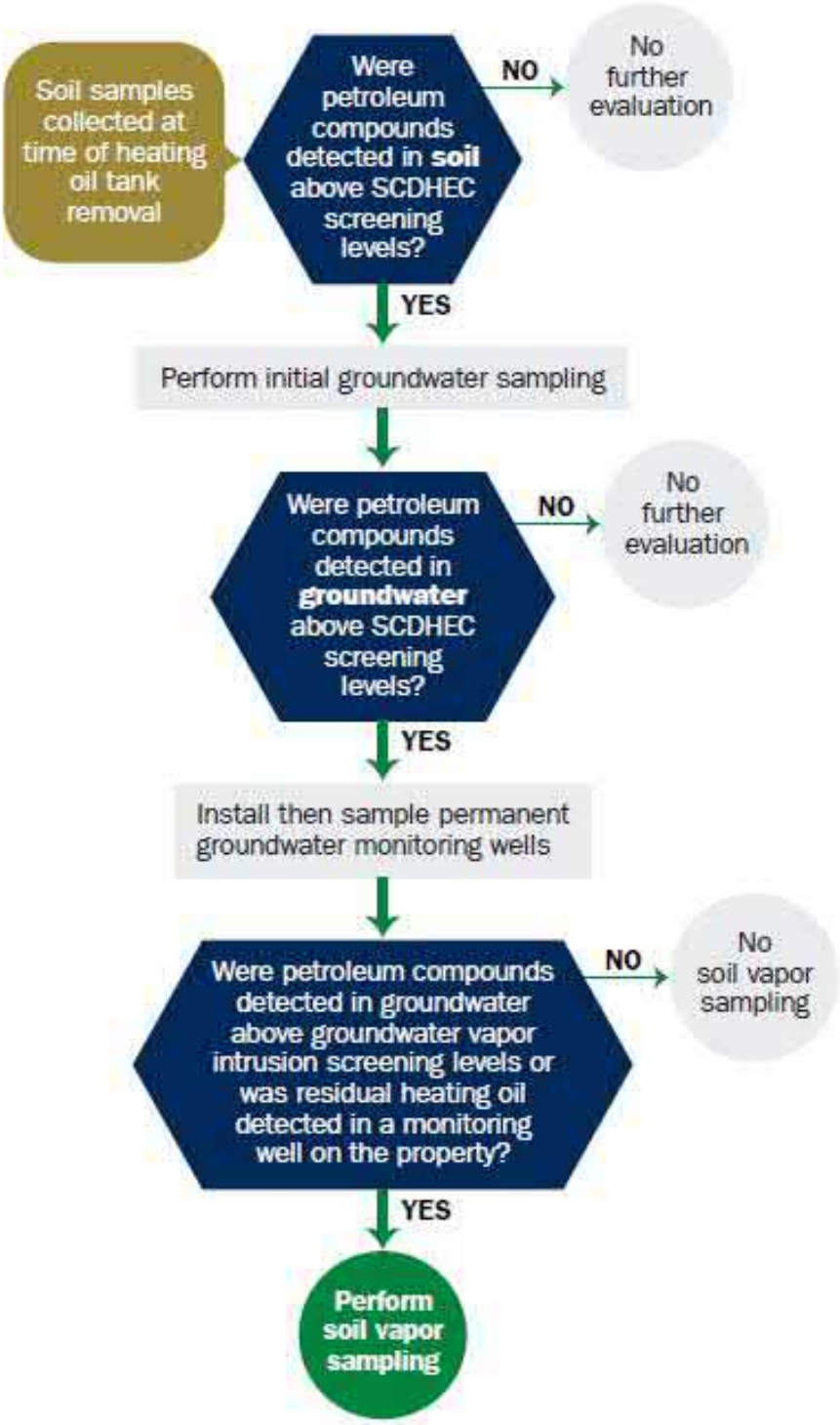
ND - not detected at the reporting limit (or method detection limit if shown on the laboratory report). The laboratory report is provided in Appendix B.

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

Appendix A
Multi-Media Selection Process for LBMH

CDM - AECOM
Multimedia Joint Venture



Appendix A - Multi-Media Selection Process for LBMH

Appendix B
UST Assessment Report

CDM - AECOM
Multimedia Joint Venture

Attachment 1

South Carolina Department of Health and Environmental Control (SCDHEC)

Underground Storage Tank (UST) Assessment Report

Date Received State Use Only

Submit Completed Form To:
UST Program
SCDHEC
2600 Bull Street
Columbia, South Carolina 29201
Telephone (803) 896-7957

I. OWNERSHIP OF UST (S)

MCAS Beaufort, Commanding Officer Attn: NREAO (Craig Ehde)
Owner Name (Corporation, Individual, Public Agency, Other)

P.O. Box 55001
Mailing Address

Beaufort,	South Carolina	29904-5001
City	State	Zip Code

843	228-7317	Craig Ehde
Area Code	Telephone Number	Contact Person

II. SITE IDENTIFICATION AND LOCATION

Permit I.D. #
Laurel Bay Military Housing Area, Marine Corps Air Station, Beaufort, SC
Facility Name or Company Site Identifier

656 Camellia Drive, Laurel Bay Military Housing Area
Street Address or State Road (as applicable)

Beaufort,	Beaufort
City	County

Attachment 2

III. INSURANCE INFORMATION

Insurance Statement

The petroleum release reported to DHEC on _____ at Permit ID Number _____ may qualify to receive state monies to pay for appropriate site rehabilitation activities. Before participation is allowed in the State Clean-up fund, written confirmation of the existence or non-existence of an environmental insurance policy is required. **This section must be completed.**

Is there now, or has there ever been an insurance policy or other financial mechanism that covers this UST release? **YES**____ **NO**_____ (check one)

If you answered **YES** to the above question, please complete the following information:

My policy provider is:_____
The policy deductible is: _____
The policy limit is: _____

If you have this type of insurance, please include a copy of the policy with this report.

IV. REQUEST FOR SUPERB FUNDING

I **DO** / DO **NOT** wish to participate in the SUPERB Program. (Circle one.)

V. CERTIFICATION (To be signed by the UST owner)

I certify that I have personally examined and am familiar with the information submitted in this and all attached documents; and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.

_____
Name (Type or print.)

_____
Signature

To be completed by Notary Public:

Sworn before me this _____ day of_____, 20____

_____
(Name)

Notary Public for the state of _____.
Please affix State seal if you are commissioned outside South Carolina

VI. UST INFORMATION

A.	Product...(ex. Gas, Kerosene).....	656Camellia				
B.	Capacity..(ex. 1k, 2k).....	Heating oil				
C.	Age.....	280 gal				
D.	Construction Material..(ex. Steel, FRP).....	Late 1950s				
E.	Month/Year of Last Use.....	Steel				
F.	Depth (ft.) To Base of Tank.....	Mid 1980s				
G.	Spill Prevention Equipment Y/N.....	6'4"				
H.	Overfill Prevention Equipment Y/N.....	No				
I.	Method of Closure Removed/Filled.....	No				
J.	Date Tanks Removed/Filled.....	Removed				
K.	Visible Corrosion or Pitting Y/N.....	6/17/2015				
L.	Visible Holes Y/N.....	Yes				
		Yes				

M. Method of disposal for any USTs removed from the ground (attach disposal manifests)
UST 656Camellia was removed from the ground and disposed at a Subtitle "D" landfill. See Attachment "A".

N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests)
UST 656Camellia had been previously filled with sand by others.

O. If any corrosion, pitting, or holes were observed, describe the location and extent for each UST
Corrosion, pitting and holes were found throughout the tank.

VII. PIPING INFORMATION

	656Camellia				
A. Construction Material..(ex. Steel, FRP).....	Steel & Copper				
B. Distance from UST to Dispenser.....	N/A				
C. Number of Dispensers.....	N/A				
D. Type of System Pressure or Suction.....	Suction				
E. Was Piping Removed from the Ground? Y/N	No				
F. Visible Corrosion or Pitting Y/N.....	Yes				
G. Visible Holes Y/N.....	No				
H. Age.....	Late 1950s				

I. If any corrosion, pitting, or holes were observed, describe the location and extent for each piping run.

Corrosion and pitting were found on the surface of the steel vent pipe. Copper supply and return lines were sound.

VIII. BRIEF SITE DESCRIPTION AND HISTORY

The USTs at the residences are constructed of single wall steel and formerly contained fuel oil for heating. These USTs were installed in the late 1950s and last used in the mid 1980s.

IX. SITE CONDITIONS

	Yes	No	Unk
A. Were any petroleum-stained or contaminated soils found in the UST excavation, soil borings, trenches, or monitoring wells? If yes, indicate depth and location on the site map.		X	
B. Were any petroleum odors detected in the excavation, soil borings, trenches, or monitoring wells? If yes, indicate location on site map and describe the odor (strong, mild, etc.)		X	
C. Was water present in the UST excavation, soil borings, or trenches? If yes, how far below land surface (indicate location and depth)?		X	
D. Did contaminated soils remain stockpiled on site after closure? If yes, indicate the stockpile location on the site map. Name of DHEC representative authorizing soil removal:		X	
E. Was a petroleum sheen or free product detected on any excavation or boring waters? If yes, indicate location and thickness.		X	

X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 84009

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
656 Camellia	Excav at fill end	Soil	Sandy	6'4"	6/17/15 1115 hrs	P. Shaw	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

* = Depth Below the Surrounding Land Surface

XI. SAMPLING METHODOLOGY

Provide a detailed description of the methods used to collect and store the samples. Also include the preservative used for each sample. Please use the space provided below.

Sampling was performed in accordance with SC DHEC R.61-92 Part 280 and SC DHEC Assessment Guidelines. Sample containers were prepared by the testing laboratory. The grab method was utilized to fill the sample containers leaving as little head space as possible and immediately capped. Soil samples were extracted from area below tank. The samples were marked, logged, and immediately placed in a sample cooler packed with ice to maintain an approximate temperature of 4 degrees Centigrade. Tools were thoroughly cleaned and decontaminated with the seven step decon process after each use. The samples remained in custody of SBG-EEG, Inc. until they were transferred to Test America Incorporated for analysis as documented in the Chain of Custody Record.

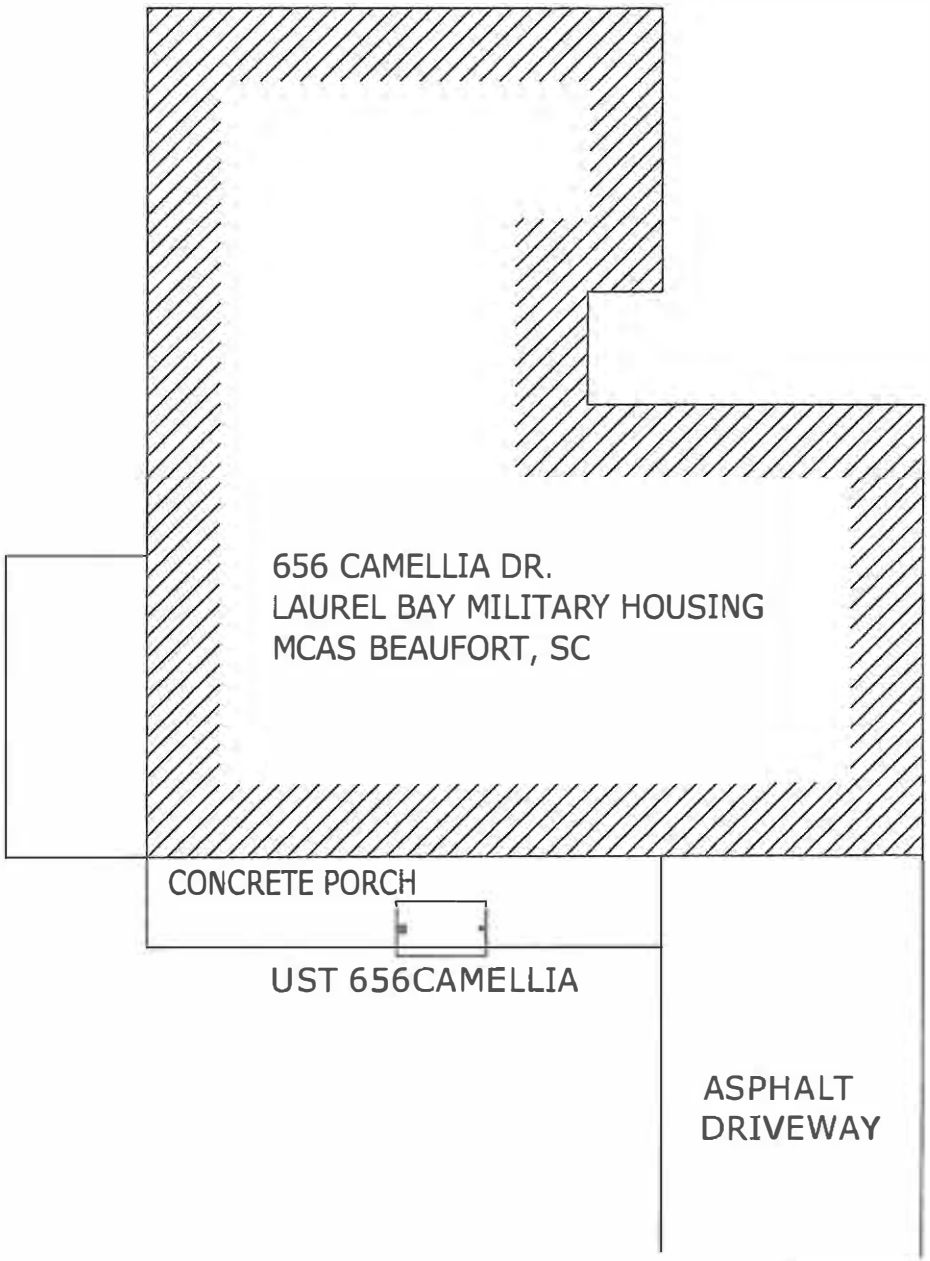
XII. RECEPTORS

		Yes	No
A.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system? If yes, indicate type of receptor, distance, and direction on site map.		X
B.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system? If yes, indicate type of well, distance, and direction on site map.		X
C.	Are there any underground structures (e.g., basements) Located within 100 feet of the UST system? If yes, indicate type of structure, distance, and direction on site map.		X
D.	Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the contamination? *Sewer, water, electricity, cable, fiber optic & geothermal If yes, indicate the type of utility, distance, and direction on the site map.	*X	
E.	Has contaminated soil been identified at a depth less than 3 feet below land surface in an area that is not capped by asphalt or concrete? If yes, indicate the area of contaminated soil on the site map.		X

XIII. SITE MAP

You must supply a scaled site map. It should include all buildings, road names, utilities, tank and dispenser island locations, labeled sample locations, extent of excavation, and any other pertinent information.

(Attach Site Map Here)



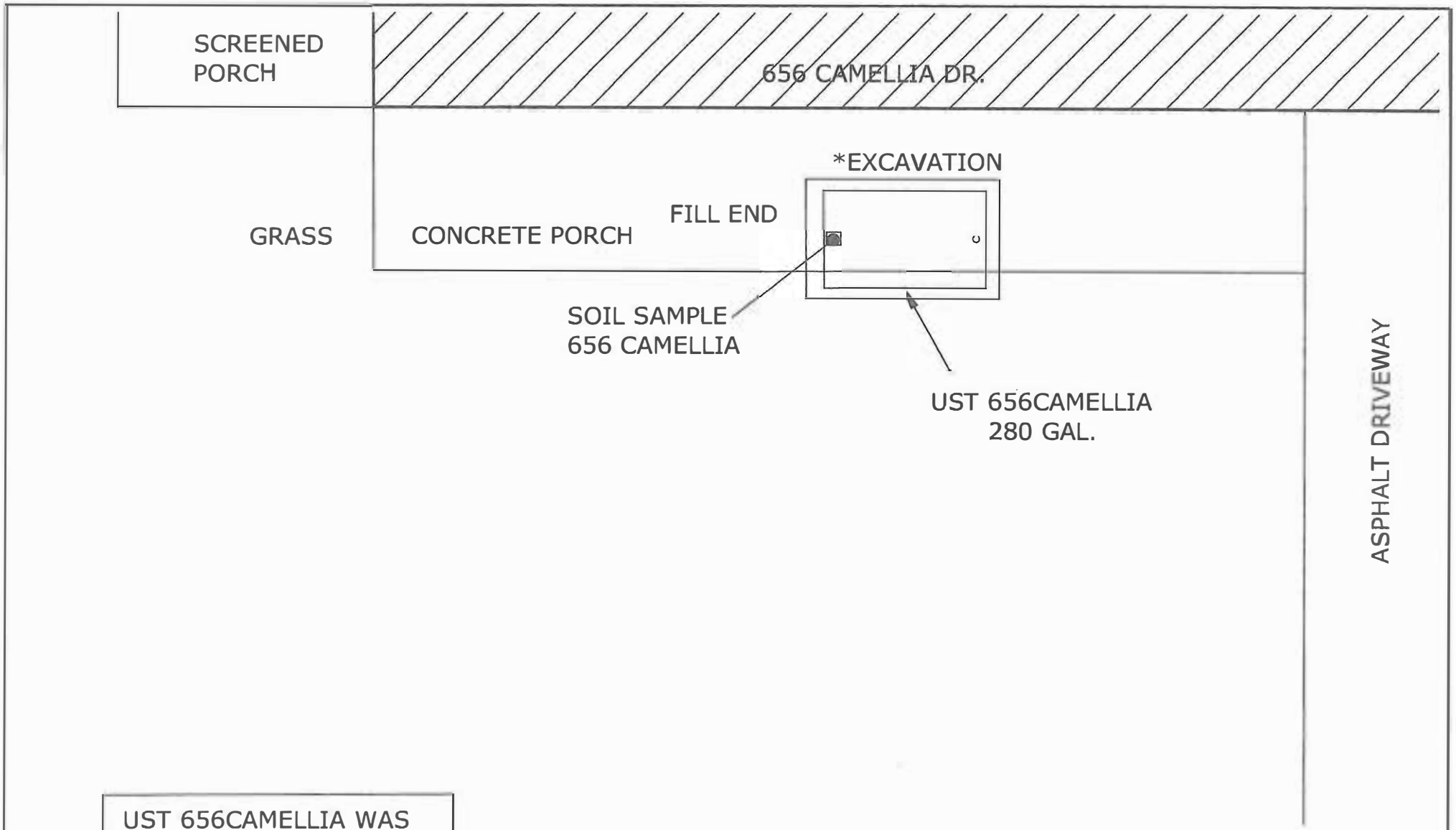
GRAPHIC SCALE

0 5' 10' 20'

SBG-EEG
10179 HWY 78
LADSON, SC 29456
ph. (843) 879-0400

FIGURE 1 SITE MAP
656 CAMELLIA DR., LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC | DWG DATE JULY 2015



UST 656CAMELLIA WAS 40" BELOW GRADE.

GRAPHIC SCALE
0 5'

*A PORTION OF THE CONCRETE PORCH WAS REMOVED TO FACILITATE TANK EXTRACTION.

SBG-EEG
10179 HWY 78
LADSON, SC 29456
ph. (843) 879-0400

FIGURE 2 UST SAMPLE LOCATION
656 CAMELLIA DR., LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC | DWG DATE JULY 2015

Picture 1: Location of UST 656Camellia.

Picture 2: Tank excavation.

Picture 3: UST 656Camellia.

Picture 4: Site after tank removal is completed.

XIV. SUMMARY OF ANALYSIS RESULTS

Enter the soil analytical data for each soil boring for all COC in the table below and on the following page.

CoC UST	656Camellia						
Benzene	ND						
Toluene	ND						
Ethylbenzene	ND						
Xylenes	ND						
Naphthalene	ND						
Benzo (a) anthracene	ND						
Benzo (b) fluoranthene	ND						
Benzo (k) fluoranthene	ND						
Chrysene	ND						
Dibenz (a, h) anthracene	ND						
TPH (EPA 3550)							

CoC								
Benzene								
Toluene								
Ethylbenzene								
Xylenes								
Naphthalene								
Benzo (a) anthracene								
Benzo (b) fluoranthene								
Benzo (k) fluoranthene								
Chrysene								
Dibenz (a, h) anthracene								
TPH (EPA 3550)								

SUMMARY OF ANALYSIS RESULTS (cont'd)

Enter the ground water analytical data for each sample for all CoC in the table below. If free product is present, indicate the measured thickness to the nearest 0.01 feet.

CoC	RBSL (µg/l)	W-1	W-2	W -3	W -4
Free Product Thickness	None				
Benzene	5				
Toluene	1,000				
Ethylbenzene	700				
Xylenes	10,000				
Total BTEX	N/A				
MTBE	40				
Naphthalene	25				
Benzo (a) anthracene	10				
Benzo (b) flouranthene	10				
Benzo (k) flouranthene	10				
Chrysene	10				
Dibenz (a, h) anthracene	10				
EDB	.05				
1,2-DCA	5				
Lead	Site specific				

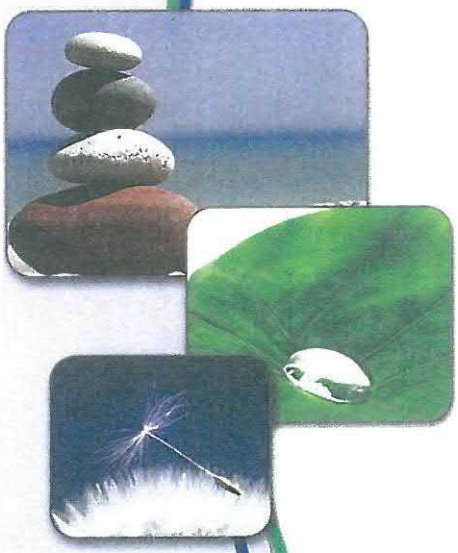
XV. ANALYTICAL RESULTS

You must submit the laboratory report and chain-of-custody form for the samples. These samples must be analyzed by a South Carolina certified laboratory.

(Attach Certified Analytical Results and Chain-of-Custody Here)
(Please see Form #4)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-81095-1
Client Project/Site: Laurel Bay Housing Project

For:
Small Business Group Inc.
10179 Highway 78
Ladson, South Carolina 29456

Attn: Tom McElwee

Authorized for release by:
7/9/2015 4:37:14 PM

Ken Hayes, Project Manager II
(615)301-5035
ken.hayes@testamericainc.com

Table of Contents

Sample Summary

Client: Small Business Group Inc.
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-81095-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-81095-1	1174 Bobwhite	Solid	06/15/15 10:15	06/20/15 08:40
490-81095-2	671 Camellia	Solid	06/16/15 11:45	06/20/15 08:40
490-81095-3	656 Camellia	Solid	06/17/15 11:15	06/20/15 08:40
490-81095-4	1253 Dove	Solid	06/18/15 11:15	06/20/15 08:40

Job ID: 490-81095-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-81095-1

Comments
No additional comments.

Receipt
The samples were received on 6/20/2015 8:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.6° C.

GC/MS VOA
Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 490-260348.

Method(s) 8260B: The following sample was analyzed outside of analytical holding time due to analyst error: 671 Camellia (490-81095-2). The analyst missed loading this sample onto the instrument with the others in this job. Once this was discovered and the sample loaded for analysis, the 14-day holding time had passed. Per our Technical Director, analysis of this sample one day beyond the 14-day holding time should have little impact regarding dimished VOC levels.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
H	Sample was prepped or analyzed beyond the specified holding time

GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)

Client: Small Business Group Inc.
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-81095-1

Client Sample ID: 1174 Bobwhite

Date Collected: 06/15/15 10:15
Date Received: 06/20/15 08:40

Lab Sample ID: 490-81095-1
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78		0.10	0.10	%			06/23/15 10:29	1

Client: Small Business Group Inc.
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-81095-1

Client Sample ID: 1174 Bobwhite

Date Collected: 06/15/15 10:15
Date Received: 06/20/15 08:40

Lab Sample ID: 490-81095-1

Matrix: Solid
Percent Solids: 77.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00210	0.000705	mg/Kg		06/15/15 10:15	06/29/15 19:09	1
Ethylbenzene	0.000921	J	0.00210	0.000705	mg/Kg		06/15/15 10:15	06/29/15 19:09	1
Naphthalene	0.00513	J	0.00526	0.00179	mg/Kg		06/15/15 10:15	06/29/15 19:09	1
Toluene	ND		0.00210	0.000778	mg/Kg		06/15/15 10:15	06/29/15 19:09	1
Xylenes, Total	0.00408	J	0.00526	0.00129	mg/Kg		06/15/15 10:15	06/29/15 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 130*	*06/15/15 10:15*	*06/29/15 19:09*	*1*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*06/15/15 10:15*	*06/29/15 19:09*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*	*06/15/15 10:15*	*06/29/15 19:09*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*06/15/15 10:15*	*06/29/15 19:09*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0669	0.00999	mg/Kg		06/24/15 11:27	06/28/15 12:28	1
Acenaphthylene	ND		0.0669	0.00899	mg/Kg		06/24/15 11:27	06/28/15 12:28	1
Anthracene	ND		0.0669	0.00899	mg/Kg		06/24/15 11:27	06/28/15 12:28	1
Benzo[a]anthracene	ND		0.0669	0.0150	mg/Kg		06/24/15 11:27	06/28/15 12:28	1
Benzo[a]pyrene	ND		0.0669	0.0120	mg/Kg		06/24/15 11:27	06/28/15 12:28	1
Benzo[b]fluoranthene	ND		0.0669	0.0120	mg/Kg		06/24/15 11:27	06/28/15 12:28	1
Benzo[g,h,i]perylene	ND		0.0669	0.00899	mg/Kg		06/24/15 11:27	06/28/15 12:28	1
Benzo[k]fluoranthene	ND	F2	0.0669	0.0140	mg/Kg		06/24/15 11:27	06/28/15 12:28	1
1-Methylnaphthalene	ND		0.0669	0.0140	mg/Kg		06/24/15 11:27	06/28/15 12:28	1
Pyrene	ND		0.0669	0.0120	mg/Kg		06/24/15 11:27	06/28/15 12:28	1
Phenanthrene	ND		0.0669	0.00899	mg/Kg		06/24/15 11:27	06/28/15 12:28	1
Chrysene	ND		0.0669	0.00899	mg/Kg		06/24/15 11:27	06/28/15 12:28	1
Dibenz(a,h)anthracene	ND		0.0669	0.00699	mg/Kg		06/24/15 11:27	06/28/15 12:28	1
Fluoranthene	ND		0.0669	0.00899	mg/Kg		06/24/15 11:27	06/28/15 12:28	1
Fluorene	ND		0.0669	0.0120	mg/Kg		06/24/15 11:27	06/28/15 12:28	1
Indeno[1,2,3-cd]pyrene	ND		0.0669	0.00999	mg/Kg		06/24/15 11:27	06/28/15 12:28	1
Naphthalene	ND		0.0669	0.00899	mg/Kg		06/24/15 11:27	06/28/15 12:28	1
2-Methylnaphthalene	ND		0.0669	0.0160	mg/Kg		06/24/15 11:27	06/28/15 12:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*90*		*29 - 120*	*06/24/15 11:27*	*06/28/15 12:28*	*1*
Terphenyl-d14 (Surr)	*103*		*13 - 120*	*06/24/15 11:27*	*06/28/15 12:28*	*1*
Nitrobenzene-d5 (Surr)	*57*		*27 - 120*	*06/24/15 11:27*	*06/28/15 12:28*	*1*

Client: Small Business Group Inc.
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-81095-1

Client Sample ID: 671 Camellia

Date Collected: 06/16/15 11:45
Date Received: 06/20/15 08:40

Lab Sample ID: 490-81095-2

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	91		0.10	0.10	%			06/23/15 10:29	1

Client Sample ID: 671 Camellia

Date Collected: 06/16/15 11:45
Date Received: 06/20/15 08:40

Lab Sample ID: 490-81095-2

Matrix: Solid
Percent Solids: 91.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	H	0.00214	0.000717	mg/Kg		06/16/15 11:45	07/01/15 09:28	1
Ethylbenzene	ND	H	0.00214	0.000717	mg/Kg		06/16/15 11:45	07/01/15 09:28	1
Naphthalene	ND	H	0.00535	0.00182	mg/Kg		06/16/15 11:45	07/01/15 09:28	1
Toluene	ND	H	0.00214	0.000792	mg/Kg		06/16/15 11:45	07/01/15 09:28	1
Xylenes, Total	ND	H	0.00535	0.00132	mg/Kg		06/16/15 11:45	07/01/15 09:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*	*06/16/15 11:45*	*07/01/15 09:28*	*1*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*06/16/15 11:45*	*07/01/15 09:28*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*06/16/15 11:45*	*07/01/15 09:28*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*06/16/15 11:45*	*07/01/15 09:28*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0669	0.00999	mg/Kg		06/24/15 11:27	06/28/15 13:41	1
Acenaphthylene	ND		0.0669	0.00899	mg/Kg		06/24/15 11:27	06/28/15 13:41	1
Anthracene	ND		0.0669	0.00899	mg/Kg		06/24/15 11:27	06/28/15 13:41	1
Benzo[a]anthracene	ND		0.0669	0.0150	mg/Kg		06/24/15 11:27	06/28/15 13:41	1
Benzo[a]pyrene	ND		0.0669	0.0120	mg/Kg		06/24/15 11:27	06/28/15 13:41	1
Benzo[b]fluoranthene	ND		0.0669	0.0120	mg/Kg		06/24/15 11:27	06/28/15 13:41	1
Benzo[g,h,i]perylene	ND		0.0669	0.00899	mg/Kg		06/24/15 11:27	06/28/15 13:41	1
Benzo[k]fluoranthene	ND		0.0669	0.0140	mg/Kg		06/24/15 11:27	06/28/15 13:41	1
1-Methylnaphthalene	ND		0.0669	0.0140	mg/Kg		06/24/15 11:27	06/28/15 13:41	1
Pyrene	ND		0.0669	0.0120	mg/Kg		06/24/15 11:27	06/28/15 13:41	1
Phenanthrene	ND		0.0669	0.00899	mg/Kg		06/24/15 11:27	06/28/15 13:41	1
Chrysene	ND		0.0669	0.00899	mg/Kg		06/24/15 11:27	06/28/15 13:41	1
Dibenz(a,h)anthracene	ND		0.0669	0.00699	mg/Kg		06/24/15 11:27	06/28/15 13:41	1
Fluoranthene	ND		0.0669	0.00899	mg/Kg		06/24/15 11:27	06/28/15 13:41	1
Fluorene	ND		0.0669	0.0120	mg/Kg		06/24/15 11:27	06/28/15 13:41	1
Indeno[1,2,3-cd]pyrene	ND		0.0669	0.00999	mg/Kg		06/24/15 11:27	06/28/15 13:41	1
Naphthalene	ND		0.0669	0.00899	mg/Kg		06/24/15 11:27	06/28/15 13:41	1
2-Methylnaphthalene	ND		0.0669	0.0160	mg/Kg		06/24/15 11:27	06/28/15 13:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*67*		*29 - 120*	*06/24/15 11:27*	*06/28/15 13:41*	*1*
Terphenyl-d14 (Surr)	*81*		*13 - 120*	*06/24/15 11:27*	*06/28/15 13:41*	*1*
Nitrobenzene-d5 (Surr)	*45*		*27 - 120*	*06/24/15 11:27*	*06/28/15 13:41*	*1*

Client Sample Results

Client: Small Business Group Inc.
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-81095-1

Client Sample ID: 656 Camellia

Date Collected: 06/17/15 11:15
Date Received: 06/20/15 08:40

Lab Sample ID: 490-81095-3

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96		0.10	0.10	%			06/23/15 10:29	1

Client Sample ID: 656 Camellia

Date Collected: 06/17/15 11:15
Date Received: 06/20/15 08:40

Lab Sample ID: 490-81095-3

Matrix: Solid
Percent Solids: 96.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00212	0.000710	mg/Kg		06/17/15 11:15	07/01/15 09:57	1
Ethylbenzene	ND		0.00212	0.000710	mg/Kg		06/17/15 11:15	07/01/15 09:57	1
Naphthalene	ND		0.00530	0.00180	mg/Kg		06/17/15 11:15	07/01/15 09:57	1
Toluene	ND		0.00212	0.000784	mg/Kg		06/17/15 11:15	07/01/15 09:57	1
Xylenes, Total	ND		0.00530	0.00130	mg/Kg		06/17/15 11:15	07/01/15 09:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*	*06/17/15 11:15*	*07/01/15 09:57*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*06/17/15 11:15*	*07/01/15 09:57*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*06/17/15 11:15*	*07/01/15 09:57*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*	*06/17/15 11:15*	*07/01/15 09:57*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0658	0.00982	mg/Kg		06/24/15 11:27	06/28/15 14:05	1
Acenaphthylene	ND		0.0658	0.00884	mg/Kg		06/24/15 11:27	06/28/15 14:05	1
Anthracene	ND		0.0658	0.00884	mg/Kg		06/24/15 11:27	06/28/15 14:05	1
Benzo[a]anthracene	ND		0.0658	0.0147	mg/Kg		06/24/15 11:27	06/28/15 14:05	1
Benzo[a]pyrene	ND		0.0658	0.0118	mg/Kg		06/24/15 11:27	06/28/15 14:05	1
Benzo[b]fluoranthene	ND		0.0658	0.0118	mg/Kg		06/24/15 11:27	06/28/15 14:05	1
Benzo[g,h,i]perylene	ND		0.0658	0.00884	mg/Kg		06/24/15 11:27	06/28/15 14:05	1
Benzo[k]fluoranthene	ND		0.0658	0.0138	mg/Kg		06/24/15 11:27	06/28/15 14:05	1
1-Methylnaphthalene	ND		0.0658	0.0138	mg/Kg		06/24/15 11:27	06/28/15 14:05	1
Pyrene	ND		0.0658	0.0118	mg/Kg		06/24/15 11:27	06/28/15 14:05	1
Phenanthrene	ND		0.0658	0.00884	mg/Kg		06/24/15 11:27	06/28/15 14:05	1
Chrysene	ND		0.0658	0.00884	mg/Kg		06/24/15 11:27	06/28/15 14:05	1
Dibenz(a,h)anthracene	ND		0.0658	0.00688	mg/Kg		06/24/15 11:27	06/28/15 14:05	1
Fluoranthene	ND		0.0658	0.00884	mg/Kg		06/24/15 11:27	06/28/15 14:05	1
Fluorene	ND		0.0658	0.0118	mg/Kg		06/24/15 11:27	06/28/15 14:05	1
Indeno[1,2,3-cd]pyrene	ND		0.0658	0.00982	mg/Kg		06/24/15 11:27	06/28/15 14:05	1
Naphthalene	ND		0.0658	0.00884	mg/Kg		06/24/15 11:27	06/28/15 14:05	1
2-Methylnaphthalene	ND		0.0658	0.0157	mg/Kg		06/24/15 11:27	06/28/15 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*59*		*29 - 120*	*06/24/15 11:27*	*06/28/15 14:05*	*1*
Terphenyl-d14 (Surr)	*69*		*13 - 120*	*06/24/15 11:27*	*06/28/15 14:05*	*1*
Nitrobenzene-d5 (Surr)	*39*		*27 - 120*	*06/24/15 11:27*	*06/28/15 14:05*	*1*

Client: Small Business Group Inc.
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-81095-1

Client Sample ID: 1253 Dove

Date Collected: 06/18/15 11:15
Date Received: 06/20/15 08:40

Lab Sample ID: 490-81095-4

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94		0.10	0.10	%			06/23/15 10:29	1

Client Sample ID: 1253 Dove

Date Collected: 06/18/15 11:15
Date Received: 06/20/15 08:40

Lab Sample ID: 490-81095-4

Matrix: Solid
Percent Solids: 94.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00210	0.000702	mg/Kg		06/18/15 11:15	07/01/15 13:05	1
Ethylbenzene	ND		0.00210	0.000702	mg/Kg		06/18/15 11:15	07/01/15 13:05	1
Naphthalene	ND		0.00524	0.00178	mg/Kg		06/18/15 11:15	07/01/15 13:05	1
Toluene	ND		0.00210	0.000775	mg/Kg		06/18/15 11:15	07/01/15 13:05	1
Xylenes, Total	ND		0.00524	0.00129	mg/Kg		06/18/15 11:15	07/01/15 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*06/18/15 11:15*	*07/01/15 13:05*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*06/18/15 11:15*	*07/01/15 13:05*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*	*06/18/15 11:15*	*07/01/15 13:05*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*	*06/18/15 11:15*	*07/01/15 13:05*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0669	0.00998	mg/Kg		06/24/15 11:27	06/28/15 14:30	1
Acenaphthylene	ND		0.0669	0.00898	mg/Kg		06/24/15 11:27	06/28/15 14:30	1
Anthracene	ND		0.0669	0.00898	mg/Kg		06/24/15 11:27	06/28/15 14:30	1
Benzo[a]anthracene	ND		0.0669	0.0150	mg/Kg		06/24/15 11:27	06/28/15 14:30	1
Benzo[a]pyrene	ND		0.0669	0.0120	mg/Kg		06/24/15 11:27	06/28/15 14:30	1
Benzo[b]fluoranthene	ND		0.0669	0.0120	mg/Kg		06/24/15 11:27	06/28/15 14:30	1
Benzo[g,h,i]perylene	ND		0.0669	0.00898	mg/Kg		06/24/15 11:27	06/28/15 14:30	1
Benzo[k]fluoranthene	ND		0.0669	0.0140	mg/Kg		06/24/15 11:27	06/28/15 14:30	1
1-Methylnaphthalene	ND		0.0669	0.0140	mg/Kg		06/24/15 11:27	06/28/15 14:30	1
Pyrene	ND		0.0669	0.0120	mg/Kg		06/24/15 11:27	06/28/15 14:30	1
Phenanthrene	ND		0.0669	0.00898	mg/Kg		06/24/15 11:27	06/28/15 14:30	1
Chrysene	ND		0.0669	0.00898	mg/Kg		06/24/15 11:27	06/28/15 14:30	1
Dibenz(a,h)anthracene	ND		0.0669	0.00699	mg/Kg		06/24/15 11:27	06/28/15 14:30	1
Fluoranthene	ND		0.0669	0.00898	mg/Kg		06/24/15 11:27	06/28/15 14:30	1
Fluorene	ND		0.0669	0.0120	mg/Kg		06/24/15 11:27	06/28/15 14:30	1
Indeno[1,2,3-cd]pyrene	ND		0.0669	0.00998	mg/Kg		06/24/15 11:27	06/28/15 14:30	1
Naphthalene	ND		0.0669	0.00898	mg/Kg		06/24/15 11:27	06/28/15 14:30	1
2-Methylnaphthalene	ND		0.0669	0.0160	mg/Kg		06/24/15 11:27	06/28/15 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*51*		*29 - 120*	*06/24/15 11:27*	*06/28/15 14:30*	*1*
Terphenyl-d14 (Surr)	*56*		*13 - 120*	*06/24/15 11:27*	*06/28/15 14:30*	*1*
Nitrobenzene-d5 (Surr)	*31*		*27 - 120*	*06/24/15 11:27*	*06/28/15 14:30*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-260348/10
Matrix: Solid
Analysis Batch: 260348

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000670	mg/Kg			06/29/15 12:40	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			06/29/15 12:40	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			06/29/15 12:40	1
Toluene	ND		0.00200	0.000740	mg/Kg			06/29/15 12:40	1
Xylenes, Total	ND		0.00500	0.00123	mg/Kg			06/29/15 12:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*70 - 130*		*06/29/15 12:40*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*06/29/15 12:40*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*06/29/15 12:40*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*06/29/15 12:40*	*1*

Lab Sample ID: LCS 490-260348/4
Matrix: Solid
Analysis Batch: 260348

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.05897		mg/Kg		118	75 - 127
Ethylbenzene	0.0500	0.06220		mg/Kg		124	80 - 134
Naphthalene	0.0500	0.06571		mg/Kg		131	69 - 150
Toluene	0.0500	0.05901		mg/Kg		118	80 - 132
Xylenes, Total	0.100	0.1232		mg/Kg		123	80 - 137

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 490-260348/5
Matrix: Solid
Analysis Batch: 260348

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.05813		mg/Kg		116	75 - 127	1	50
Ethylbenzene	0.0500	0.06011		mg/Kg		120	80 - 134	3	50
Naphthalene	0.0500	0.06214		mg/Kg		124	69 - 150	6	50
Toluene	0.0500	0.05774		mg/Kg		115	80 - 132	2	50
Xylenes, Total	0.100	0.1188		mg/Kg		119	80 - 137	4	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-107549-B-19-D MS
Matrix: Solid
Analysis Batch: 261008

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 260813

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		0.0504	0.03564		mg/Kg		71	31 - 143
Ethylbenzene	ND		0.0504	0.02927		mg/Kg		58	23 - 161
Naphthalene	ND		0.0504	0.04370		mg/Kg		87	10 - 176
Toluene	ND		0.0504	0.03315		mg/Kg		66	30 - 155
Xylenes, Total	ND		0.101	0.05559		mg/Kg		55	25 - 162

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*75*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*92*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: 400-107549-B-19-E MSD
Matrix: Solid
Analysis Batch: 261008

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 260813

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		0.0462	0.04382		mg/Kg		95	31 - 143	21	50
Ethylbenzene	ND		0.0462	0.04313		mg/Kg		93	23 - 161	38	50
Naphthalene	ND		0.0462	0.04436		mg/Kg		96	10 - 176	2	50
Toluene	ND		0.0462	0.04340		mg/Kg		94	30 - 155	27	50
Xylenes, Total	ND		0.0925	0.08390		mg/Kg		91	25 - 162	41	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*80*		*70 - 130*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*92*		*70 - 130*

Lab Sample ID: 400-107549-B-20-D MS
Matrix: Solid
Analysis Batch: 260956

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 260813

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		0.0532	0.06740		mg/Kg		127	31 - 143
Ethylbenzene	ND		0.0532	0.06099		mg/Kg		115	23 - 161
Naphthalene	ND		0.0532	0.05333		mg/Kg		100	10 - 176
Toluene	ND		0.0532	0.05934		mg/Kg		112	30 - 155
Xylenes, Total	ND		0.106	0.1199		mg/Kg		113	25 - 162

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-107549-B-20-E MSD
Matrix: Solid
Analysis Batch: 260956

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 260813

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		0.0526	0.06606		mg/Kg	☼	126	31 - 143	2	50
Ethylbenzene	ND		0.0526	0.05679		mg/Kg	☼	108	23 - 161	7	50
Naphthalene	ND		0.0526	0.05036		mg/Kg	☼	96	10 - 176	6	50
Toluene	ND		0.0526	0.05585		mg/Kg	☼	106	30 - 155	6	50
Xylenes, Total	ND		0.105	0.1111		mg/Kg	☼	106	25 - 162	8	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Lab Sample ID: MB 490-260956/7
Matrix: Solid
Analysis Batch: 260956

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000670	mg/Kg			07/01/15 00:27	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			07/01/15 00:27	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			07/01/15 00:27	1
Toluene	ND		0.00200	0.000740	mg/Kg			07/01/15 00:27	1
Xylenes, Total	ND		0.00500	0.00123	mg/Kg			07/01/15 00:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*70 - 130*		*07/01/15 00:27*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*07/01/15 00:27*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*07/01/15 00:27*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*07/01/15 00:27*	*1*

Lab Sample ID: LCS 490-260956/4
Matrix: Solid
Analysis Batch: 260956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.06073		mg/Kg		121	75 - 127
Ethylbenzene	0.0500	0.05690		mg/Kg		114	80 - 134
Naphthalene	0.0500	0.05667		mg/Kg		113	69 - 150
Toluene	0.0500	0.05345		mg/Kg		107	80 - 132
Xylenes, Total	0.100	0.1124		mg/Kg		112	80 - 137

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*93*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-260956/5
Matrix: Solid
Analysis Batch: 260956

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.06191		mg/Kg		124	75 - 127	2	50
Ethylbenzene	0.0500	0.05843		mg/Kg		117	80 - 134	3	50
Naphthalene	0.0500	0.05729		mg/Kg		115	69 - 150	1	50
Toluene	0.0500	0.05575		mg/Kg		112	80 - 132	4	50
Xylenes, Total	0.100	0.1147		mg/Kg		115	80 - 137	2	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*93*		*70 - 130*

Lab Sample ID: MB 490-261008/6
Matrix: Solid
Analysis Batch: 261008

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000670	mg/Kg			07/01/15 11:06	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			07/01/15 11:06	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			07/01/15 11:06	1
Toluene	ND		0.00200	0.000740	mg/Kg			07/01/15 11:06	1
Xylenes, Total	ND		0.00500	0.00123	mg/Kg			07/01/15 11:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 130*		*07/01/15 11:06*	*1*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*07/01/15 11:06*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*07/01/15 11:06*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*07/01/15 11:06*	*1*

Lab Sample ID: LCS 490-261008/3
Matrix: Solid
Analysis Batch: 261008

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.05655		mg/Kg		113	75 - 127
Ethylbenzene	0.0500	0.06061		mg/Kg		121	80 - 134
Naphthalene	0.0500	0.06100		mg/Kg		122	69 - 150
Toluene	0.0500	0.05981		mg/Kg		120	80 - 132
Xylenes, Total	0.100	0.1174		mg/Kg		117	80 - 137

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-261008/4
Matrix: Solid
Analysis Batch: 261008

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.05643		mg/Kg		113	75 - 127	0	50
Ethylbenzene	0.0500	0.06082		mg/Kg		122	80 - 134	0	50
Naphthalene	0.0500	0.06317		mg/Kg		126	69 - 150	3	50
Toluene	0.0500	0.06102		mg/Kg		122	80 - 132	2	50
Xylenes, Total	0.100	0.1203		mg/Kg		120	80 - 137	2	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-258983/1-A
Matrix: Solid
Analysis Batch: 260232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258983

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0100	mg/Kg		06/24/15 11:27	06/28/15 11:17	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		06/24/15 11:27	06/28/15 11:17	1
Anthracene	ND		0.0670	0.00900	mg/Kg		06/24/15 11:27	06/28/15 11:17	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		06/24/15 11:27	06/28/15 11:17	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		06/24/15 11:27	06/28/15 11:17	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		06/24/15 11:27	06/28/15 11:17	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		06/24/15 11:27	06/28/15 11:17	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		06/24/15 11:27	06/28/15 11:17	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		06/24/15 11:27	06/28/15 11:17	1
Pyrene	ND		0.0670	0.0120	mg/Kg		06/24/15 11:27	06/28/15 11:17	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		06/24/15 11:27	06/28/15 11:17	1
Chrysene	ND		0.0670	0.00900	mg/Kg		06/24/15 11:27	06/28/15 11:17	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		06/24/15 11:27	06/28/15 11:17	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg		06/24/15 11:27	06/28/15 11:17	1
Fluorene	ND		0.0670	0.0120	mg/Kg		06/24/15 11:27	06/28/15 11:17	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		06/24/15 11:27	06/28/15 11:17	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		06/24/15 11:27	06/28/15 11:17	1
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		06/24/15 11:27	06/28/15 11:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*90*		*29 - 120*	*06/24/15 11:27*	*06/28/15 11:17*	*1*
Terphenyl-d14 (Surr)	*110*		*13 - 120*	*06/24/15 11:27*	*06/28/15 11:17*	*1*
Nitrobenzene-d5 (Surr)	*56*		*27 - 120*	*06/24/15 11:27*	*06/28/15 11:17*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-258983/2-A
Matrix: Solid
Analysis Batch: 260232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258983

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	1.67	1.217		mg/Kg		73	38 - 120
Anthracene	1.67	1.353		mg/Kg		81	46 - 124
Benzo[a]anthracene	1.67	1.355		mg/Kg		81	45 - 120
Benzo[a]pyrene	1.67	1.282		mg/Kg		77	45 - 120
Benzo[b]fluoranthene	1.67	1.253		mg/Kg		75	42 - 120
Benzo[g,h,i]perylene	1.67	1.456		mg/Kg		87	38 - 120
Benzo[k]fluoranthene	1.67	1.339		mg/Kg		80	42 - 120
1-Methylnaphthalene	1.67	1.281		mg/Kg		77	32 - 120
Pyrene	1.67	1.193		mg/Kg		72	43 - 120
Phenanthrene	1.67	1.275		mg/Kg		76	45 - 120
Chrysene	1.67	1.297		mg/Kg		78	43 - 120
Dibenz(a,h)anthracene	1.67	1.513		mg/Kg		91	32 - 128
Fluoranthene	1.67	1.314		mg/Kg		79	46 - 120
Fluorene	1.67	1.309		mg/Kg		79	42 - 120
Indeno[1,2,3-cd]pyrene	1.67	1.452		mg/Kg		87	41 - 121
Naphthalene	1.67	1.172		mg/Kg		70	32 - 120
2-Methylnaphthalene	1.67	1.158		mg/Kg		69	28 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*71*		*29 - 120*
Terphenyl-d14 (Surr)	*83*		*13 - 120*
Nitrobenzene-d5 (Surr)	*49*		*27 - 120*

Lab Sample ID: LCSD 490-258983/3-A
Matrix: Solid
Analysis Batch: 260232

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 258983

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthylene	1.67	1.426		mg/Kg		86	38 - 120	16	50
Anthracene	1.67	1.488		mg/Kg		89	46 - 124	10	49
Benzo[a]anthracene	1.67	1.579		mg/Kg		95	45 - 120	15	50
Benzo[a]pyrene	1.67	1.465		mg/Kg		88	45 - 120	13	50
Benzo[b]fluoranthene	1.67	1.368		mg/Kg		82	42 - 120	9	50
Benzo[g,h,i]perylene	1.67	1.586		mg/Kg		95	38 - 120	9	50
Benzo[k]fluoranthene	1.67	1.515		mg/Kg		91	42 - 120	12	45
1-Methylnaphthalene	1.67	1.477		mg/Kg		89	32 - 120	14	50
Pyrene	1.67	1.404		mg/Kg		84	43 - 120	16	50
Phenanthrene	1.67	1.385		mg/Kg		83	45 - 120	8	50
Chrysene	1.67	1.520		mg/Kg		91	43 - 120	16	49
Dibenz(a,h)anthracene	1.67	1.717		mg/Kg		103	32 - 128	13	50
Fluoranthene	1.67	1.432		mg/Kg		86	46 - 120	9	50
Fluorene	1.67	1.501		mg/Kg		90	42 - 120	14	50
Indeno[1,2,3-cd]pyrene	1.67	1.574		mg/Kg		94	41 - 121	8	50
Naphthalene	1.67	1.410		mg/Kg		85	32 - 120	18	50
2-Methylnaphthalene	1.67	1.339		mg/Kg		80	28 - 120	14	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-258983/3-A
Matrix: Solid
Analysis Batch: 260232

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 258983

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	*82*		*29 - 120*
Terphenyl-d14 (Surr)	*97*		*13 - 120*
Nitrobenzene-d5 (Surr)	*58*		*27 - 120*

Lab Sample ID: 490-81095-1 MS
Matrix: Solid
Analysis Batch: 260232

Client Sample ID: 1174 Bobwhite
Prep Type: Total/NA
Prep Batch: 258983

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	ND		2.10	1.605		mg/Kg		76	25 - 120
Anthracene	ND		2.10	1.813		mg/Kg		86	28 - 125
Benzo[a]anthracene	ND		2.10	1.891		mg/Kg		90	23 - 120
Benzo[a]pyrene	ND		2.10	1.828		mg/Kg		87	15 - 128
Benzo[b]fluoranthene	ND		2.10	1.669		mg/Kg		79	12 - 133
Benzo[g,h,i]perylene	ND		2.10	2.011		mg/Kg		96	22 - 120
Benzo[k]fluoranthene	ND	F2	2.10	1.910		mg/Kg		91	28 - 120
1-Methylnaphthalene	ND		2.10	1.639		mg/Kg		78	10 - 120
Pyrene	ND		2.10	1.653		mg/Kg		79	20 - 123
Phenanthrene	ND		2.10	1.725		mg/Kg		82	21 - 122
Chrysene	ND		2.10	1.754		mg/Kg		83	20 - 120
Dibenz(a,h)anthracene	ND		2.10	2.111		mg/Kg		100	12 - 128
Fluoranthene	ND		2.10	1.764		mg/Kg		84	10 - 143
Fluorene	ND		2.10	1.760		mg/Kg		84	20 - 120
Indeno[1,2,3-cd]pyrene	ND		2.10	1.953		mg/Kg		93	22 - 121
Naphthalene	ND		2.10	1.453		mg/Kg		69	10 - 120
2-Methylnaphthalene	ND		2.10	1.453		mg/Kg		69	13 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl (Surr)	*74*		*29 - 120*
Terphenyl-d14 (Surr)	*89*		*13 - 120*
Nitrobenzene-d5 (Surr)	*51*		*27 - 120*

Lab Sample ID: 490-81095-1 MSD
Matrix: Solid
Analysis Batch: 260232

Client Sample ID: 1174 Bobwhite
Prep Type: Total/NA
Prep Batch: 258983

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthylene	ND		2.12	1.090		mg/Kg		51	25 - 120	38	50
Anthracene	ND		2.12	1.182		mg/Kg		56	28 - 125	42	49
Benzo[a]anthracene	ND		2.12	1.248		mg/Kg		59	23 - 120	41	50
Benzo[a]pyrene	ND		2.12	1.146		mg/Kg		54	15 - 128	46	50
Benzo[b]fluoranthene	ND		2.12	1.097		mg/Kg		52	12 - 133	41	50
Benzo[g,h,i]perylene	ND		2.12	1.248		mg/Kg		59	22 - 120	47	50
Benzo[k]fluoranthene	ND	F2	2.12	1.176	F2	mg/Kg		55	28 - 120	48	45
1-Methylnaphthalene	ND		2.12	1.124		mg/Kg		53	10 - 120	37	50
Pyrene	ND		2.12	1.070		mg/Kg		50	20 - 123	43	50
Phenanthrene	ND		2.12	1.095		mg/Kg		52	21 - 122	45	50
Chrysene	ND		2.12	1.153		mg/Kg		54	20 - 120	41	49

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-81095-1 MSD
Matrix: Solid
Analysis Batch: 260232

Client Sample ID: 1174 Bobwhite
Prep Type: Total/NA
Prep Batch: 258983

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibenz(a,h)anthracene	ND		2.12	1.308		mg/Kg		62	12 - 128	47	50
Fluoranthene	ND		2.12	1.168		mg/Kg		55	10 - 143	41	50
Fluorene	ND		2.12	1.162		mg/Kg		55	20 - 120	41	50
Indeno[1,2,3-cd]pyrene	ND		2.12	1.219		mg/Kg		57	22 - 121	46	50
Naphthalene	ND		2.12	1.047		mg/Kg		49	10 - 120	32	50
2-Methylnaphthalene	ND		2.12	1.018		mg/Kg		48	13 - 120	35	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*49*		*29 - 120*
Terphenyl-d14 (Surr)	*56*		*13 - 120*
Nitrobenzene-d5 (Surr)	*34*		*27 - 120*

Method: Moisture - Percent Moisture

Lab Sample ID: 490-81078-L-1 DU
Matrix: Solid
Analysis Batch: 258547

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	84		84		%		0.2	20

QC Association Summary

Client: Small Business Group Inc.
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-81095-1

GC/MS VOA

Prep Batch: 258682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-81095-1	1174 Bobwhite	Total/NA	Solid	5035	
490-81095-2	671 Camellia	Total/NA	Solid	5035	
490-81095-3	656 Camellia	Total/NA	Solid	5035	
490-81095-4	1253 Dove	Total/NA	Solid	5035	

Analysis Batch: 260348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-81095-1	1174 Bobwhite	Total/NA	Solid	8260B	258682
LCS 490-260348/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-260348/5	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-260348/10	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 260813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-107549-B-19-D MS	Matrix Spike	Total/NA	Solid	5030B	
400-107549-B-19-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5030B	
400-107549-B-20-D MS	Matrix Spike	Total/NA	Solid	5030B	
400-107549-B-20-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5030B	

Analysis Batch: 260956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-107549-B-20-D MS	Matrix Spike	Total/NA	Solid	8260B	260813
400-107549-B-20-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	260813
490-81095-2	671 Camellia	Total/NA	Solid	8260B	258682
490-81095-3	656 Camellia	Total/NA	Solid	8260B	258682
LCS 490-260956/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-260956/5	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-260956/7	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 261008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-107549-B-19-D MS	Matrix Spike	Total/NA	Solid	8260B	260813
400-107549-B-19-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	260813
490-81095-4	1253 Dove	Total/NA	Solid	8260B	258682
LCS 490-261008/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-261008/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-261008/6	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 258983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-81095-1	1174 Bobwhite	Total/NA	Solid	3550C	
490-81095-1 MS	1174 Bobwhite	Total/NA	Solid	3550C	
490-81095-1 MSD	1174 Bobwhite	Total/NA	Solid	3550C	
490-81095-2	671 Camellia	Total/NA	Solid	3550C	
490-81095-3	656 Camellia	Total/NA	Solid	3550C	
490-81095-4	1253 Dove	Total/NA	Solid	3550C	
LCS 490-258983/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 490-258983/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

GC/MS Semi VOA (Continued)

Prep Batch: 258983 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 490-258983/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 260232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-81095-1	1174 Bobwhite	Total/NA	Solid	8270D	258983
490-81095-1 MS	1174 Bobwhite	Total/NA	Solid	8270D	258983
490-81095-1 MSD	1174 Bobwhite	Total/NA	Solid	8270D	258983
490-81095-2	671 Camellia	Total/NA	Solid	8270D	258983
490-81095-3	656 Camellia	Total/NA	Solid	8270D	258983
490-81095-4	1253 Dove	Total/NA	Solid	8270D	258983
LCS 490-258983/2-A	Lab Control Sample	Total/NA	Solid	8270D	258983
LCSD 490-258983/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	258983
MB 490-258983/1-A	Method Blank	Total/NA	Solid	8270D	258983

General Chemistry

Analysis Batch: 258547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-81078-L-1 DU	Duplicate	Total/NA	Solid	Moisture	
490-81095-1	1174 Bobwhite	Total/NA	Solid	Moisture	
490-81095-2	671 Camellia	Total/NA	Solid	Moisture	
490-81095-3	656 Camellia	Total/NA	Solid	Moisture	
490-81095-4	1253 Dove	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Small Business Group Inc.
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-81095-1

Client Sample ID: 1174 Bobwhite

Date Collected: 06/15/15 10:15
Date Received: 06/20/15 08:40

Lab Sample ID: 490-81095-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			258547	06/23/15 10:29	MAA	TAL NSH

Client Sample ID: 1174 Bobwhite

Date Collected: 06/15/15 10:15
Date Received: 06/20/15 08:40

Lab Sample ID: 490-81095-1
Matrix: Solid
Percent Solids: 77.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.105 g	5.0 mL	258682	06/15/15 10:15	JLP	TAL NSH
Total/NA	Analysis	8260B		1	6.105 g	5.0 mL	260348	06/29/15 19:09	JPV	TAL NSH
Total/NA	Prep	3550C			38.56 g	1 mL	258983	06/24/15 11:27	LDC	TAL NSH
Total/NA	Analysis	8270D		1	38.56 g	1 mL	260232	06/28/15 12:28	SNR	TAL NSH

Client Sample ID: 671 Camellia

Date Collected: 06/16/15 11:45
Date Received: 06/20/15 08:40

Lab Sample ID: 490-81095-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			258547	06/23/15 10:29	MAA	TAL NSH

Client Sample ID: 671 Camellia

Date Collected: 06/16/15 11:45
Date Received: 06/20/15 08:40

Lab Sample ID: 490-81095-2
Matrix: Solid
Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.119 g	5.0 mL	258682	06/16/15 11:45	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5.119 g	5.0 mL	260956	07/01/15 09:28	JPV	TAL NSH
Total/NA	Prep	3550C			32.92 g	1 mL	258983	06/24/15 11:27	LDC	TAL NSH
Total/NA	Analysis	8270D		1	32.92 g	1 mL	260232	06/28/15 13:41	SNR	TAL NSH

Client Sample ID: 656 Camellia

Date Collected: 06/17/15 11:15
Date Received: 06/20/15 08:40

Lab Sample ID: 490-81095-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			258547	06/23/15 10:29	MAA	TAL NSH

Client Sample ID: 656 Camellia

Date Collected: 06/17/15 11:15
Date Received: 06/20/15 08:40

Lab Sample ID: 490-81095-3
Matrix: Solid
Percent Solids: 96.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.909 g	5.0 mL	258682	06/17/15 11:15	JLP	TAL NSH

Lab Chronicle

Client: Small Business Group Inc.
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-81095-1

Client Sample ID: 656 Camellia

Date Collected: 06/17/15 11:15
Date Received: 06/20/15 08:40

Lab Sample ID: 490-81095-3
Matrix: Solid
Percent Solids: 96.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	4.909 g	5.0 mL	260956	07/01/15 09:57	JPV	TAL NSH
Total/NA	Prep	3550C			31.76 g	1 mL	258983	06/24/15 11:27	LDC	TAL NSH
Total/NA	Analysis	8270D		1	31.76 g	1 mL	260232	06/28/15 14:05	SNR	TAL NSH

Client Sample ID: 1253 Dove

Date Collected: 06/18/15 11:15
Date Received: 06/20/15 08:40

Lab Sample ID: 490-81095-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			258547	06/23/15 10:29	MAA	TAL NSH

Client Sample ID: 1253 Dove

Date Collected: 06/18/15 11:15
Date Received: 06/20/15 08:40

Lab Sample ID: 490-81095-4
Matrix: Solid
Percent Solids: 94.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.078 g	5.0 mL	258682	06/18/15 11:15	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5.078 g	5.0 mL	261008	07/01/15 13:05	JPV	TAL NSH
Total/NA	Prep	3550C			31.98 g	1 mL	258983	06/24/15 11:27	LDC	TAL NSH
Total/NA	Analysis	8270D		1	31.98 g	1 mL	260232	06/28/15 14:30	SNR	TAL NSH

Laboratory References:

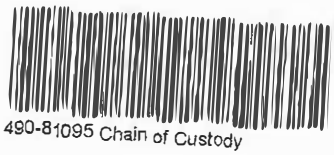
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

pad 6/12/15

COOLER RECEIPT FORM

Charleston


490-81095 Chain of Custody

6/10/15

Cooler Received/Opened On ~~6-10-15~~ @ 0840

1. Tracking # 4310 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 12080142

2. Temperature of rep. sample or temp blank when opened: 0.6 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)

4. Were custody seals on outside of cooler? (YES)..NO...NA

If yes, how many and where: one front + Back

5. Were the seals intact, signed, and dated correctly? (YES)..NO...NA

6. Were custody papers inside cooler? (YES)..NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) DA

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? (Bubblewrap) Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete(#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13a. Were VOA vials received? (YES)...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...(NA)

14. Was there a Trip Blank in this cooler? YES...(NO)..NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (intial) VS

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..(NA)

b. Did the bottle labels indicate that the correct preservatives were used (YES)..NO...NA

16. Was residual chlorine present? YES...NO...(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) VS

17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) VS

I certify that I attached a label with the unique LIMS number to each container (intial) VS

21. Were there Non-Conformance issues at login? YES..(NO) Was a NCM generated? YES...NO...(#)

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-(
End of Form

Revised 11/28/12

7/9/2015

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?

Compliance Monitoring? Yes ____ No ____

Enforcement Action? Yes ____ No ____

Client Name/Account #: SBG - EEG # 2449

Address: 10179 Highway 78

City/State/Zip: Ladson, SC 29456

Site State: SC

Project Manager: Tom McElwee email: mcelwee@eegimc.net

PO#: 1406

Telephone Number: 843.412.2097 Fax No.: (843) 879-0401

TA Quote #:

Sampler Name: (Print) Pratt Shaw

Project ID: Laurel Bay Housing Project

Sampler Signature:

Project #:

Loc: 490
81095

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO_3 (Red Label)	HCl (Blue Label)	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass (Yellow Label)	None (Black Label)	Other (Specify) MeOH	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: BTEX + Naph - 8260	PAH - 8270D	RUSH TAT (Pre-Schedule)	Standard TAT	Fax Results	Send QC with report
1174 Bobwhite	6/15/15	1015	5	X					2				2	1					X		X	X				
671 Camellia	6/16/15	1145	5	X					2				2	1					X		X	X				
656 Camellia	6/17/15	1115	5	X					2				2	1					X		X	X				
1253 Dour	6/18/15	1115	5	X					2				2	1					X		X	X				

Special Instructions:

Laboratory Comments:
Temperature Upon Receipt:
VOCs Free of Headspace? Y N

Method of Shipment: FEDEX

Relinquished by:	Date	Time	Received by:	Date	Time
	6/19/15	0900	Fedex		
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
				6/20/15	0810

Login Sample Receipt Checklist

Client: Small Business Group Inc.

Job Number: 490-81095-1

Login Number: 81095
List Number: 1
Creator: Buckingham, Paul

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ATTACHMENT A

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
MCAS BEAUFORT
LAUREL BAY HOUSING
BEAUFORT, SC 29904

4. Generator's Phone 843-879-0411

Generator's Site Address (If different than mailing):

A. Manifest Number WMNA 01519125

B. State Generator's ID

5. Transporter 1 Company Name

6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
HICKORY HILL LANDFILL
2621 LOW COUNTRY DRIVE
RIDGELAND, SC 29936

10. US EPA ID Number

G. State Facility ID

H. State Facility Phone 843-987-4643

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. HEATING OIL TANK FILLED WITH SAND WM Profile# 102655SC					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location

Cell | Level

Grid

15. Special Handling Instructions and Additional Information

Purchase Order #

EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

Appendix C
Regulatory Correspondence

Healthy People. Healthy Communities.

August 3, 2016

Commanding Officer
Attention: NREAO Mr. William A. Drawdy
United State Marine Corps Air Station
Post Office Box 55001
Beaufort, SC 29904-5001

RE: No Further Action
Laurel Bay Underground Storage Tank Assessment Reports
Dated July 2015, November 2015

Dear Mr. Drawdy:

The South Carolina Department of Health and Environmental Control (the Department) received the Underground Storage Tanks (USTs) Assessment Reports for the addresses listed in the attachment. The regulatory authority for the investigation and cleanup of releases from these tank systems is the South Carolina Pollution Control Act (S.C. Code Ann. §48-1-10 et seq., as amended).

The Department has reviewed the referenced assessment reports and agrees there is no indication of soil or groundwater contamination on these properties and therefore no further investigation is required at this time.

Please note that the Department's decision is based on information provided by the Marine Corps Air Station (MCAS) to date. Any information found to be contradictory to this decision may require additional action. Furthermore, the Department retains the right to request further investigation if deemed necessary.

If you have any questions, please contact me at petruslb@dhec.sc.gov or 803-898-0294.

Sincerely,

Laurel Petrus, Environmental Engineer Associate
Bureau of Land and Waste Management

Cc: Russell Berry, EQC Region 8 (via email)
Bryan Beck, NAVFAC MIDATLANTIC (via email)
Craig Ehde (via email)

Attachment to: Petrus to Drawdy
Subject: No Further Action
Dated August 3, 2016

Laurel Bay Underground Assessment Reports for (28 addresses/29 tanks)

No Further Action recommendation:	
309 Ash	1001 Bobwhite
477 Dogwood Tank 2	1020 Foxglove
563 Dahlia	1063 Gardenia
659 Camellia	1065 Gardenia Tank 2
1213 Cardinal	1100 Iris Tank 3*
114 Banyan	1139 Iris
158 Cypress	1141 Iris Tank 2
459 Elderberry	1174 Bobwhite
611 Dahlia	1184 Bobwhite Tank 1
656 Camellia	1184 Bobwhite Tank 2
671 Camellia	1220 Cardinal
678 Camellia	1253 Dove
724 Bluebell	1332 Albatross
732 Bluebell	1387 Dove
934 Albacore	
*1100 Iris Tank 1-NFA 12/19/2008, Tank 2-NFA 7/1/15; Paperwork for Tank 3 is labeled Tank 2	