

**SUMMARY REPORT  
187 ASH STREET (FORMERLY 320 ASH STREET)  
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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Norfolk, Virginia 23511-3095**

**Prepared by:**

**CDM - AECOM**  
Multimedia Joint Venture

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

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

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## Table of Contents

<b>1.0</b>	<b>INTRODUCTION .....</b>	<b>1</b>
1.1	BACKGROUND INFORMATION.....	1
1.2	UST REMOVAL AND ASSESSMENT PROCESS.....	2
<b>2.0</b>	<b>SAMPLING ACTIVITIES AND RESULTS .....</b>	<b>3</b>
2.1	UST REMOVAL AND SOIL SAMPLING .....	3
2.2	SOIL ANALYTICAL RESULTS.....	4
2.3	GROUNDWATER SAMPLING.....	4
2.4	GROUNDWATER ANALYTICAL RESULTS .....	5
<b>3.0</b>	<b>PROPERTY STATUS.....</b>	<b>5</b>
<b>4.0</b>	<b>REFERENCES .....</b>	<b>5</b>

## Tables

Table 1	Laboratory Analytical Results - Soil
Table 2	Laboratory Analytical Results - Groundwater

## Appendices

Appendix A	Multi-Media Selection Process for LBMH
Appendix B	UST Assessment Report
Appendix C	Laboratory Analytical Report - Groundwater
Appendix D	Regulatory Correspondence

### **List of Acronyms**

bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
CTO	Contract Task Order
COPC	constituents of potential concern
ft	feet
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 187 Ash Street (Formerly 320 Ash Street). 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

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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*

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*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 187 Ash Street (Formerly 320 Ash Street). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 320 Ash Street* (MCAS Beaufort, 2011). The UST Assessment Report is provided in Appendix B. Details regarding the IGWA sampling activities at this site are provided in the *Initial Groundwater Investigation Report – November and December 2015* (Resolution Consultants, 2016). The laboratory report that includes the pertinent IGWA analytical results for this site is presented in Appendix C.

### **2.1 UST Removal and Soil Sampling**

On May 25, 2011, a single 280 gallon heating oil UST was removed from the front landscaped bed area adjacent to the concrete porch at 187 Ash Street (Formerly 320 Ash Street). The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). The UST was removed, cleaned, and shipped offsite for recycling. 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 6'1" 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 187 Ash Street (Formerly 320 Ash Street) were greater than the SCDHEC RBSLs, which indicated further investigation was required. In a letter dated July 1, 2015, SCDHEC requested an IGWA for 187 Ash Street (Formerly 320 Ash Street) to determine if the groundwater was impacted by petroleum COPCs. SCDHEC's request letter is provided in Appendix D.

## **2.3 Groundwater Sampling**

On November 10, 2015, a temporary monitoring well was installed at 187 Ash Street (Formerly 320 Ash Street), in accordance with the South Carolina Well Standards and Regulations (R.61-71.H-I, updated June 24, 2016). In order to provide data that can be used to determine whether COPCs are migrating to underlying groundwater, the monitoring well was placed in the same general location as the former heating oil UST. The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). Further details are provided in the *Initial Groundwater Investigation Report – November and December 2015* (Resolution Consultants, 2016).



The sampling strategy for this phase of the investigation required a one-time sampling event of the temporarily installed monitoring well. Following well installation and development, groundwater samples were collected using low-flow methods and shipped to an offsite laboratory for analysis of the petroleum COPCs. Upon completion of groundwater sampling, the temporary well was abandoned in accordance with the South Carolina Well Standards and Regulations R.61-71 (SCDHEC, 2016). Field forms are provided in the *Initial Groundwater Investigation Report – November and December 2015* (Resolution Consultants, 2016).

## **2.4 Groundwater Analytical Results**

A summary of the laboratory analytical results and SCDHEC RBSLs is presented in Table 2. A copy of the laboratory analytical data report is included in Appendix C.

The groundwater results collected from 187 Ash Street (Formerly 320 Ash Street) were less than the SCDHEC RBSLs and the site specific groundwater VISLs (Table 2), which indicated that the groundwater was not impacted by COPCs associated with the former UST at concentrations that present a potential risk to human health and the environment.

## **3.0 PROPERTY STATUS**

Based on the analytical results for groundwater, SCDHEC made the determination that NFA was required for 187 Ash Street (Formerly 320 Ash Street). This NFA determination was obtained in a letter dated June 8, 2016. SCDHEC's NFA letter is provided in Appendix D.

## **4.0 REFERENCES**

Marine Corps Air Station Beaufort, 2011. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 320 Ash Street, Laurel Bay Military Housing Area, September 2011.*

Resolution Consultants, 2016. *Initial Groundwater Investigation Report – November and December 2015 for Laurel Bay Military Housing Area, Multiple Properties, Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort, Beaufort, South Carolina, April 2016.*

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.

South Carolina Department of Health and Environmental Control Bureau of Water, 2016. *R.61-71, Well Standards*, June 2016.

## Tables

**Table 1**  
**Laboratory Analytical Results - Soil**  
**187 Ash Street (Formerly 320 Ash Street)**  
**Laurel Bay Military Housing Area**  
**Marine Corps Air Station Beaufort**  
**Beaufort, South Carolina**

Constituent	SCDHEC RBSLs <sup>(1)</sup>	Results Sample Collected 05/25/11
<b>Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)</b>		
Benzene	0.003	<b>0.0169</b>
Ethylbenzene	1.15	<b>0.479</b>
Naphthalene	0.036	<b>3.11</b>
Toluene	0.627	<b>0.112</b>
Xylenes, Total	13.01	<b>0.867</b>
<b>Semivolatile Organic Compounds Analyzed by EPA Method 8270D (mg/kg)</b>		
Benzo(a)anthracene	0.66	<b>0.515</b>
Benzo(b)fluoranthene	0.66	<b>0.288</b>
Benzo(k)fluoranthene	0.66	<b>0.208</b>
Chrysene	0.66	<b>0.573</b>
Dibenz(a,h)anthracene	0.66	ND

**Notes:**

<sup>(1)</sup> 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 - milligrams per kilogram

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

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

**Table 2**  
**Laboratory Analytical Results - Groundwater**  
**187 Ash Street (Formerly 320 Ash Street)**  
**Laurel Bay Military Housing Area**  
**Marine Corps Air Station Beaufort**  
**Beaufort, South Carolina**

Constituent	SCDHEC RBSLs <sup>(1)</sup>	Site-Specific Groundwater VISLs (µg/L) <sup>(2)</sup>	Results Sample Collected 11/10/15
<b>Volatile Organic Compounds Analyzed by EPA Method 8260B (µg/L)</b>			
Benzene	5	16.24	ND
Ethylbenzene	700	45.95	ND
Naphthalene	25	29.33	ND
Toluene	1000	105,445	ND
Xylenes, Total	10,000	2,133	ND
<b>Semivolatile Organic Compounds Analyzed by EPA Method 8270D (µg/L)</b>			
Benzo(a)anthracene	10	NA	ND
Benzo(b)fluoranthene	10	NA	ND
Benzo(k)fluoranthene	10	NA	ND
Chrysene	10	NA	ND
Dibenz(a,h)anthracene	10	NA	ND

**Notes:**

<sup>(1)</sup> South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 3.1 (SCDHEC, February 2016).

<sup>(2)</sup> Site-specific groundwater VISLs were calculated using the EPA JE Model Spreadsheets (Version 3.1, February 2004) and conservative modeling inputs representative of a small single-story house with an 8 foot ceiling. Site-specific groundwater VISLs were developed based on a target risk level of  $1 \times 10^{-6}$ , a target hazard quotient of 1 (per target organ), and a default residential exposure scenario, assuming exposure for 24 hours/day, 350 days/year, for 26 years. Modeling was performed for a range of depths to groundwater for application as appropriate in different areas of the Laurel Bay Military Housing Area. The most conservative levels are presented for comparison. Refer to Appendix H of the Uniform Federal Policy Sampling Analysis and Sampling Plan for Vapor Media, Revision 4 (Resolution Consultants, April 2017) for additional information.

Bold font indicates the analyte was detected.

Bold font and shading indicates the concentration exceeds the SCDHEC RBSL and/or the Site-Specific Groundwater VISL.

EPA - United States Environmental Protection Agency

JE - Johnson & Ettinger

NA - Not Applicable

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

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

µg/L - micrograms per liter

VISL - Vapor Intrusion Screening Level

**Appendix A**  
**Multi-Media Selection Process for LBMH**



Appendix A - Multi-Media Selection Process for LBMH

**Appendix B**  
**UST Assessment Report**



Attachment 1

South Carolina Department of Health and Environmental Control (SCDHEC)  
**Underground Storage Tank (UST) Assessment Report**

<p><b>Date Received</b></p>  <p><b>State Use Only</b></p>
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**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	
320 Ash Street, 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).....
- B. Capacity..(ex. 1k, 2k).....
- C. Age.....
- D. Construction Material..(ex. Steel, FRP).....
- E. Month/Year of Last Use.....
- F. Depth (ft.) To Base of Tank.....
- G. Spill Prevention Equipment Y/N.....
- H. Overfill Prevention Equipment Y/N.....
- I. Method of Closure Removed/Filled.....
- J. Date Tanks Removed/Filled.....
- K. Visible Corrosion or Pitting Y/N.....
- L. Visible Holes Y/N.....

320Ash				
Heating oil				
280 gal				
Late 1950s				
Steel				
Mid 1980s				
6'1"				
No				
No				
Removed				
5/25/11				
Yes				
Yes				

M. Method of disposal for any USTs removed from the ground (attach disposal manifests)  
UST 320Ash was removed from the ground, cleaned and recycled. See Attachment "A."

N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests)  
Contaminated water was pumped from UST 320Ash and disposed by MCAS.

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

- A. Construction Material..(ex. Steel, FRP).....
- B. Distance from UST to Dispenser.....
- C. Number of Dispensers.....
- D. Type of System Pressure or Suction.....
- E. Was Piping Removed from the Ground? Y/N
- F. Visible Corrosion or Pitting Y/N.....
- G. Visible Holes Y/N.....
- H. Age.....
- I. If any corrosion, pitting, or holes were observed, describe the location and extent for each piping run.

320Ash				
Steel & Copper				
N/A				
N/A				
Suction				
No				
Yes				
No				
Late 1950s				

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

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## 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.

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## IX. SITE CONDITIONS

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

## 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 #
320Ash	Excav at fill end	Soil	Sandy	6'1"	5/25/11 1445 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.

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## XII. RECEPTORS

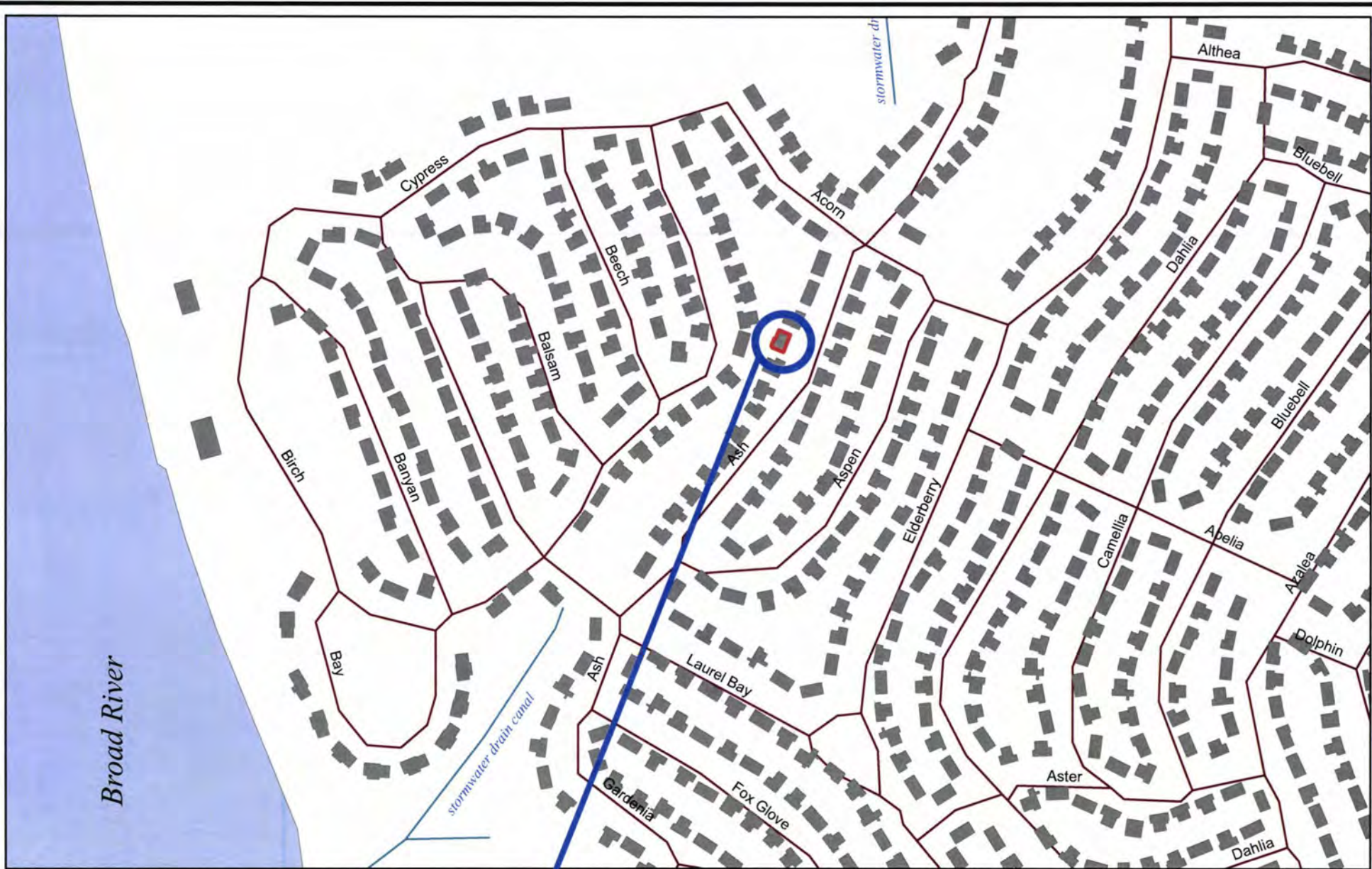
	Yes	No
<p>A. Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?  <span style="margin-left: 150px;">*~745' &amp; 960' to stormwater canals</span></p> <p>If yes, indicate type of receptor, distance, and direction on site map.</p>	*X	
<p>B. Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?</p> <p>If yes, indicate type of well, distance, and direction on site map.</p>		X
<p>C. Are there any underground structures (e.g., basements) Located within 100 feet of the UST system?</p> <p>If yes, indicate type of structure, distance, and direction on site map.</p>		X
<p>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?  <span style="margin-left: 150px;">*Sewer, water, electricity, cable &amp; fiber optic</span></p> <p>If yes, indicate the type of utility, distance, and direction on the site map.</p>	*X	
<p>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?</p> <p>If yes, indicate the area of contaminated soil on the site map.</p>		X



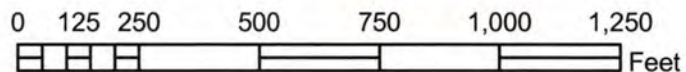
### **XIII. SITE MAP**

**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)

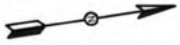


**320 ASH ST.**



<b>SBG-EEG, Inc.</b>	
398 E. 5th North Street, Suite C Summerville SC 29483-6954	
Ph. (843) 875-1930	
Drawn By:	L. DiAsio
Dwg Date:	JUNE 2011

**FIGURE 1: LOCATION MAP  
320 ASH STREET  
LAUREL BAY, BEAUFORT SC**



STORMWATER DRAINAGE  
CANALS  $\approx$  960'

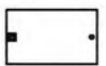


& 745'



320 ASH STREET  
LAUREL BAY MILITARY HOUSING  
MCAS BEAUFORT, SC

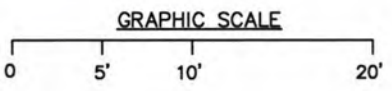
UST 320ASH,  
280 GAL.



CONCRETE  
PORCH & WALK



ASPHALT  
DRIVEWAY



**SBG-EEG**  
398 E. 5 NORTH ST., SUITE C  
SUMMERVILLE, SC  
29483-6954

FIGURE 2 SITE MAP  
320 ASH ST., LAUREL BAY  
MCAS BEAUFORT SC

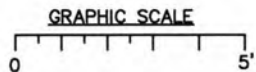
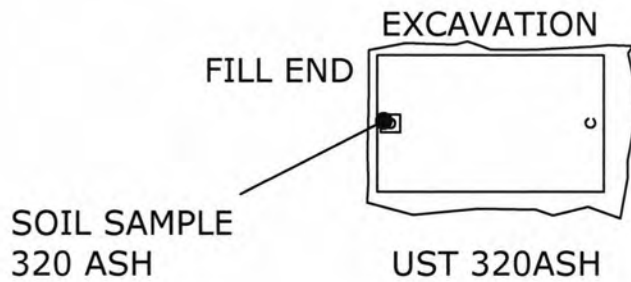
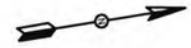
SCALE: GRAPHIC      DWG DATE JUNE 2011

STORMWATER DRAINAGE  
CANALS  $\approx$  960'

& 745'



320 ASH STREET



UST 320ASH WAS 37"  
BELOW GRADE.

**SBG-EEG**

398 E. 5 NORTH ST, SUITE C  
SUMMERVILLE, SC  
29483-6954

FIGURE 3 UST SAMPLE LOCATIONS  
320 ASH ST., LAUREL BAY  
MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE JUNE 2011



Picture 1: Location of UST 320Ash.



Picture 2: UST 320Ash excavation in progress.

#### 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.

<b>CoC</b>	UST	320Ash						
<b>Benzene</b>		0.0169 mg/kg						
<b>Toluene</b>		0.112 mg/kg						
<b>Ethylbenzene</b>		0.479 mg/kg						
<b>Xylenes</b>		0.867 mg/kg						
<b>Naphthalene</b>		3.11 mg/kg						
<b>Benzo (a) anthracene</b>		0.515 mg/kg						
<b>Benzo (b) fluoranthene</b>		0.288 mg/kg						
<b>Benzo (k) fluoranthene</b>		0.208 mg/kg						
<b>Chrysene</b>		0.573 mg/kg						
<b>Dibenz (a, h) anthracene</b>		ND						
<b>TPH (EPA 3550)</b>								

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

**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)



June 14, 2011 4:26:43PM

Client: EEG - Small Business Group, Inc. (2449)  
10179 Highway 78  
Ladson, SC 29456  
Attn: Tom McElwee

Work Order: NUE4876  
Project Name: Laurel Bay Housing Project  
Project Nbr: [none]  
P/O Nbr: 1027  
Date Received: 05/28/11

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
1334 Albatross	NUE4876-01	05/23/11 11:45
306 Ash	NUE4876-02	05/24/11 11:45
316 Ash	NUE4876-03	05/24/11 16:00
320 Ash	NUE4876-04	05/25/11 14:45
319 Ash	NUE4876-05	05/26/11 11:30
331 Ash	NUE4876-06	05/26/11 16:00

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately at 615-726-0177.

South Carolina Certification Number: 84009

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

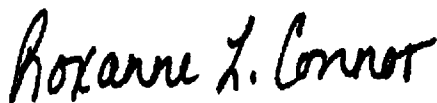
These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

All solids results are reported in wet weight unless specifically stated.

Estimated uncertainty is available upon request.

This report has been electronically signed.

Report Approved By:



Roxanne Connor

Program Manager - Conventional Accounts

Client EEG - Small Business Group, Inc. (2449)  
 10179 Highway 78  
 Ladson, SC 29456  
 Attn Tom McElwee

Work Order: NUE4876  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 05/28/11 08:45

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
<b>Sample ID: NUE4876-01 (1334 Albatross - Soil) Sampled: 05/23/11 11:45</b>										
<b>General Chemistry Parameters</b>										
% Dry Solids	94.3		%	0.500	0.500	1	06/01/11 13:38	SW-846	AMS	11E7556
<b>Volatile Organic Compounds by EPA Method 8260B</b>										
Benzene	ND		mg/kg dry	0.00117	0.00213	1	05/31/11 16:03	SW846 8260B	KKK	11E7260
Ethylbenzene	ND		mg/kg dry	0.00104	0.00213	1	05/31/11 16:03	SW846 8260B	KKK	11E7260
Naphthalene	ND		mg/kg dry	0.00181	0.00533	1	05/31/11 16:03	SW846 8260B	KKK	11E7260
Toluene	ND		mg/kg dry	0.000948	0.00213	1	05/31/11 16:03	SW846 8260B	KKK	11E7260
Xylenes, total	ND		mg/kg dry	0.00202	0.00533	1	05/31/11 16:03	SW846 8260B	KKK	11E7260
Surr: 1,2-Dichloroethane-d4 (67-138%)	99 %					1	05 31 11 16:03	SW846 8260B	KKK	11E7260
Surr: Dibromofluoromethane (75-125%)	99 %					1	05 31 11 16:03	SW846 8260B	KKK	11E7260
Surr: Toluene-d8 (76-129%)	101 %					1	05 31 11 16:03	SW846 8260B	KKK	11E7260
Surr: 4-Bromofluorobenzene (67-147%)	105 %					1	05 31 11 16:03	SW846 8260B	KKK	11E7260
<b>Polyaromatic Hydrocarbons by EPA 8270D</b>										
Acenaphthene	ND		mg/kg dry	0.0149	0.0711	1	06/01/11 15:22	SW846 8270D	JLS	11E7498
Acenaphthylene	ND		mg/kg dry	0.0212	0.0711	1	06/01/11 15:22	SW846 8270D	JLS	11E7498
Anthracene	ND		mg/kg dry	0.00955	0.0711	1	06/01/11 15:22	SW846 8270D	JLS	11E7498
Benzo (a) anthracene	ND		mg/kg dry	0.0117	0.0711	1	06/01/11 15:22	SW846 8270D	JLS	11E7498
Benzo (a) pyrene	ND		mg/kg dry	0.00849	0.0711	1	06/01/11 15:22	SW846 8270D	JLS	11E7498
Benzo (b) fluoranthene	ND		mg/kg dry	0.0403	0.0711	1	06/01/11 15:22	SW846 8270D	JLS	11E7498
Benzo (g,h,i) perylene	ND		mg/kg dry	0.00955	0.0711	1	06/01/11 15:22	SW846 8270D	JLS	11E7498
Benzo (k) fluoranthene	ND		mg/kg dry	0.0392	0.0711	1	06/01/11 15:22	SW846 8270D	JLS	11E7498
Chrysene	ND		mg/kg dry	0.0329	0.0711	1	06/01/11 15:22	SW846 8270D	JLS	11E7498
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0159	0.0711	1	06/01/11 15:22	SW846 8270D	JLS	11E7498
Fluoranthene	ND		mg/kg dry	0.0117	0.0711	1	06/01/11 15:22	SW846 8270D	JLS	11E7498
Fluorene	ND		mg/kg dry	0.0212	0.0711	1	06/01/11 15:22	SW846 8270D	JLS	11E7498
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0329	0.0711	1	06/01/11 15:22	SW846 8270D	JLS	11E7498
Naphthalene	ND		mg/kg dry	0.0149	0.0711	1	06/01/11 15:22	SW846 8270D	JLS	11E7498
Phenanthrene	ND		mg/kg dry	0.0106	0.0711	1	06/01/11 15:22	SW846 8270D	JLS	11E7498
Pyrene	ND		mg/kg dry	0.0244	0.0711	1	06/01/11 15:22	SW846 8270D	JLS	11E7498
1-Methylnaphthalene	ND		mg/kg dry	0.0127	0.0711	1	06/01/11 15:22	SW846 8270D	JLS	11E7498
2-Methylnaphthalene	ND		mg/kg dry	0.0223	0.0711	1	06/01/11 15:22	SW846 8270D	JLS	11E7498
Surr: Terphenyl-d14 (18-120%)	92 %					1	06 01 11 15:22	SW846 8270D	JLS	11E7498
Surr: 2-Fluorobiphenyl (14-120%)	58 %					1	06 01 11 15:22	SW846 8270D	JLS	11E7498
Surr: Nitrobenzene-d5 (17-120%)	59 %					1	06 01 11 15:22	SW846 8270D	JLS	11E7498

Client EEG - Small Business Group, Inc. (2449)  
10179 Highway 78  
Ladson, SC 29456  
Attn Tom McElwee

Work Order: NUE4876  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 05/28/11 08:45

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
<b>Sample ID: NUE4876-02 (306 Ash - Soil) Sampled: 05/24/11 11:45</b>										
<b>General Chemistry Parameters</b>										
% Dry Solids	73.6		%	0.500	0.500	1	06/01/11 13:38	SW-846	AMS	11E7556
<b>Volatile Organic Compounds by EPA Method 8260B</b>										
Benzene	0.0281		mg/kg dry	0.00116	0.00211	1	05/31/11 16:33	SW846 8260B	KKK	11E7260
Ethylbenzene	1.44		mg/kg dry	0.0641	0.131	50	06/01/11 13:07	SW846 8260B	KKK	11F0105
Naphthalene	8.27		mg/kg dry	0.111	0.327	50	06/01/11 13:07	SW846 8260B	KKK	11F0105
Toluene	ND		mg/kg dry	0.000939	0.00211	1	05/31/11 16:33	SW846 8260B	KKK	11E7260
Xylenes, total	0.0510		mg/kg dry	0.00201	0.00528	1	05/31/11 16:33	SW846 8260B	KKK	11E7260
Surr: 1,2-Dichloroethane-d4 (67-138%)	95 %					1	05/31/11 16:33	SW846 8260B	KKK	11E7260
Surr: 1,2-Dichloroethane-d4 (67-138%)	92 %					50	06/01/11 13:07	SW846 8260B	KKK	11F0105
Surr: Dibromofluoromethane (75-125%)	98 %					1	05/31/11 16:33	SW846 8260B	KKK	11E7260
Surr: Dibromofluoromethane (75-125%)	96 %					50	06/01/11 13:07	SW846 8260B	KKK	11F0105
Surr: Toluene-d8 (76-129%)	190 %	ZX				1	05/31/11 16:33	SW846 8260B	KKK	11E7260
Surr: Toluene-d8 (76-129%)	102 %					50	06/01/11 13:07	SW846 8260B	KKK	11F0105
Surr: 4-Bromofluorobenzene (67-147%)	262 %	ZX				1	05/31/11 16:33	SW846 8260B	KKK	11E7260
Surr: 4-Bromofluorobenzene (67-147%)	105 %					50	06/01/11 13:07	SW846 8260B	KKK	11F0105
<b>Polyaromatic Hydrocarbons by EPA 8270D</b>										
Acenaphthene	0.433		mg/kg dry	0.0189	0.0907	1	06/01/11 15:44	SW846 8270D	JLS	11E7498
Acenaphthylene	ND		mg/kg dry	0.0271	0.0907	1	06/01/11 15:44	SW846 8270D	JLS	11E7498
Anthracene	0.335		mg/kg dry	0.0122	0.0907	1	06/01/11 15:44	SW846 8270D	JLS	11E7498
Benzo (a) anthracene	0.364		mg/kg dry	0.0149	0.0907	1	06/01/11 15:44	SW846 8270D	JLS	11E7498
Benzo (a) pyrene	0.183		mg/kg dry	0.0108	0.0907	1	06/01/11 15:44	SW846 8270D	JLS	11E7498
Benzo (b) fluoranthene	0.223		mg/kg dry	0.0514	0.0907	1	06/01/11 15:44	SW846 8270D	JLS	11E7498
Benzo (g,h,i) perylene	0.0627	J	mg/kg dry	0.0122	0.0907	1	06/01/11 15:44	SW846 8270D	JLS	11E7498
Benzo (k) fluoranthene	0.171		mg/kg dry	0.0501	0.0907	1	06/01/11 15:44	SW846 8270D	JLS	11E7498
Chrysene	0.374		mg/kg dry	0.0420	0.0907	1	06/01/11 15:44	SW846 8270D	JLS	11E7498
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0203	0.0907	1	06/01/11 15:44	SW846 8270D	JLS	11E7498
Fluoranthene	0.775		mg/kg dry	0.0149	0.0907	1	06/01/11 15:44	SW846 8270D	JLS	11E7498
Fluorene	0.869		mg/kg dry	0.0271	0.0907	1	06/01/11 15:44	SW846 8270D	JLS	11E7498
Indeno (1,2,3-cd) pyrene	0.0686	J	mg/kg dry	0.0420	0.0907	1	06/01/11 15:44	SW846 8270D	JLS	11E7498
Naphthalene	1.84		mg/kg dry	0.0189	0.0907	1	06/01/11 15:44	SW846 8270D	JLS	11E7498
Phenanthrene	2.39		mg/kg dry	0.0135	0.0907	1	06/01/11 15:44	SW846 8270D	JLS	11E7498
Pyrene	0.729		mg/kg dry	0.0311	0.0907	1	06/01/11 15:44	SW846 8270D	JLS	11E7498
1-Methylnaphthalene	7.15		mg/kg dry	0.162	0.907	10	06/03/11 16:03	SW846 8270D	JLS	11E7498
2-Methylnaphthalene	11.9		mg/kg dry	0.284	0.907	10	06/03/11 16:03	SW846 8270D	JLS	11E7498
Surr: Terphenyl-d14 (18-120%)	95 %					1	06/01/11 15:44	SW846 8270D	JLS	11E7498
Surr: 2-Fluorobiphenyl (14-120%)	70 %					1	06/01/11 15:44	SW846 8270D	JLS	11E7498
Surr: Nitrobenzene-d5 (17-120%)	72 %					1	06/01/11 15:44	SW846 8270D	JLS	11E7498

Client EEG - Small Business Group, Inc. (2449)  
 10179 Highway 78  
 Ladson, SC 29456  
 Attn Tom McElwee

Work Order: NUE4876  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 05/28/11 08:45

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
<b>Sample ID: NUE4876-03 (316 Ash - Soil) Sampled: 05/24/11 16:00</b>										
General Chemistry Parameters										
% Dry Solids	82.1		%	0.500	0.500	1	06/01/11 13:38	SW-846	AMS	11E7556
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00112	0.00204	1	06/01/11 13:37	SW846 8260B	KKK	11F0105
Ethylbenzene	0.0599		mg/kg dry	0.000998	0.00204	1	06/01/11 13:37	SW846 8260B	KKK	11F0105
Naphthalene	1.43		mg/kg dry	0.0856	0.252	50	06/01/11 14:06	SW846 8260B	KKK	11F0105
Toluene	0.00352		mg/kg dry	0.000907	0.00204	1	06/01/11 13:37	SW846 8260B	KKK	11F0105
Xylenes, total	0.0235		mg/kg dry	0.00194	0.00509	1	06/01/11 13:37	SW846 8260B	KKK	11F0105
Surr: 1,2-Dichloroethane-d4 (67-138%)	94 %					1	06 01 11 13:37	SW846 8260B	KKK	11F0105
Surr: 1,2-Dichloroethane-d4 (67-138%)	89 %					50	06 01 11 14:06	SW846 8260B	KKK	11F0105
Surr: Dibromofluoromethane (75-125%)	102 %					1	06 01 11 13:37	SW846 8260B	KKK	11F0105
Surr: Dibromofluoromethane (75-125%)	93 %					50	06 01 11 14:06	SW846 8260B	KKK	11F0105
Surr: Toluene-d8 (76-129%)	200 %	ZX				1	06 01 11 13:37	SW846 8260B	KKK	11F0105
Surr: Toluene-d8 (76-129%)	100 %					50	06 01 11 14:06	SW846 8260B	KKK	11F0105
Surr: 4-Bromofluorobenzene (67-147%)	293 %	ZX				1	06 01 11 13:37	SW846 8260B	KKK	11F0105
Surr: 4-Bromofluorobenzene (67-147%)	103 %					50	06 01 11 14:06	SW846 8260B	KKK	11F0105
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0169	0.0810	1	06/01/11 16:06	SW846 8270D	JLS	11E7498
Acenaphthylene	ND		mg/kg dry	0.0242	0.0810	1	06/01/11 16:06	SW846 8270D	JLS	11E7498
Anthracene	0.426		mg/kg dry	0.0109	0.0810	1	06/01/11 16:06	SW846 8270D	JLS	11E7498
Benzo (a) anthracene	0.0830		mg/kg dry	0.0133	0.0810	1	06/01/11 16:06	SW846 8270D	JLS	11E7498
Benzo (a) pyrene	ND		mg/kg dry	0.00967	0.0810	1	06/01/11 16:06	SW846 8270D	JLS	11E7498
Benzo (b) fluoranthene	ND		mg/kg dry	0.0460	0.0810	1	06/01/11 16:06	SW846 8270D	JLS	11E7498
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0109	0.0810	1	06/01/11 16:06	SW846 8270D	JLS	11E7498
Benzo (k) fluoranthene	ND		mg/kg dry	0.0447	0.0810	1	06/01/11 16:06	SW846 8270D	JLS	11E7498
Chrysene	0.120		mg/kg dry	0.0375	0.0810	1	06/01/11 16:06	SW846 8270D	JLS	11E7498
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0181	0.0810	1	06/01/11 16:06	SW846 8270D	JLS	11E7498
Fluoranthene	0.321		mg/kg dry	0.0133	0.0810	1	06/01/11 16:06	SW846 8270D	JLS	11E7498
Fluorene	2.32		mg/kg dry	0.0242	0.0810	1	06/01/11 16:06	SW846 8270D	JLS	11E7498
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0375	0.0810	1	06/01/11 16:06	SW846 8270D	JLS	11E7498
Naphthalene	2.99		mg/kg dry	0.0169	0.0810	1	06/01/11 16:06	SW846 8270D	JLS	11E7498
Phenanthrene	10.4		mg/kg dry	0.121	0.810	10	06/03/11 16:25	SW846 8270D	JLS	11E7498
Pyrene	0.616		mg/kg dry	0.0278	0.0810	1	06/01/11 16:06	SW846 8270D	JLS	11E7498
1-Methylnaphthalene	19.8		mg/kg dry	0.145	0.810	10	06/03/11 16:25	SW846 8270D	JLS	11E7498
2-Methylnaphthalene	29.2		mg/kg dry	0.254	0.810	10	06/03/11 16:25	SW846 8270D	JLS	11E7498
Surr: Terphenyl-d14 (18-120%)	80 %					1	06 01 11 16:06	SW846 8270D	JLS	11E7498
Surr: 2-Fluorobiphenyl (14-120%)	55 %					1	06 01 11 16:06	SW846 8270D	JLS	11E7498
Surr: Nitrobenzene-d5 (17-120%)	63 %					1	06 01 11 16:06	SW846 8270D	JLS	11E7498

Client EEG - Small Business Group, Inc. (2449)  
 10179 Highway 78  
 Ladson, SC 29456  
 Attn Tom McElwee

Work Order: NUE4876  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 05/28/11 08:45

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
<b>Sample ID: NUE4876-04 (320 Ash - Soil) Sampled: 05/25/11 14:45</b>										
General Chemistry Parameters										
% Dry Solids	79.6		%	0.500	0.500	1	06/01/11 13:38	SW-846	AMS	11E7556
Volatile Organic Compounds by EPA Method 8260B										
Benzene	0.0169		mg/kg dry	0.00119	0.00217	1	05/31/11 17:32	SW846 8260B	KKK	11E7260
Ethylbenzene	0.479		mg/kg dry	0.0543	0.111	50	06/01/11 15:35	SW846 8260B	KKK	11F0105
Naphthalene	3.11		mg/kg dry	0.0942	0.277	50	06/01/11 15:35	SW846 8260B	KKK	11F0105
Toluene	0.112		mg/kg dry	0.000966	0.00217	1	05/31/11 17:32	SW846 8260B	KKK	11E7260
Xylenes, total	0.867		mg/kg dry	0.105	0.277	50	06/01/11 15:35	SW846 8260B	KKK	11F0105
Surr: 1,2-Dichloroethane-d4 (67-138%)	94 %					1	05 31 11 17:32	SW846 8260B	KKK	11E7260
Surr: 1,2-Dichloroethane-d4 (67-138%)	89 %					50	06 01 11 15:35	SW846 8260B	KKK	11F0105
Surr: Dibromofluoromethane (75-125%)	98 %					1	05 31 11 17:32	SW846 8260B	KKK	11E7260
Surr: Dibromofluoromethane (75-125%)	94 %					50	06 01 11 15:35	SW846 8260B	KKK	11F0105
Surr: Toluene-d8 (76-129%)	166 %	ZX				1	05 31 11 17:32	SW846 8260B	KKK	11E7260
Surr: Toluene-d8 (76-129%)	102 %					50	06 01 11 15:35	SW846 8260B	KKK	11F0105
Surr: 4-Bromofluorobenzene (67-147%)	262 %	ZX				1	05 31 11 17:32	SW846 8260B	KKK	11E7260
Surr: 4-Bromofluorobenzene (67-147%)	100 %					50	06 01 11 15:35	SW846 8260B	KKK	11F0105
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	0.676		mg/kg dry	0.0175	0.0838	1	06/01/11 16:28	SW846 8270D	JLS	11E7498
Acenaphthylene	ND		mg/kg dry	0.0250	0.0838	1	06/01/11 16:28	SW846 8270D	JLS	11E7498
Anthracene	0.451		mg/kg dry	0.0113	0.0838	1	06/01/11 16:28	SW846 8270D	JLS	11E7498
Benzo (a) anthracene	0.515		mg/kg dry	0.0138	0.0838	1	06/01/11 16:28	SW846 8270D	JLS	11E7498
Benzo (a) pyrene	0.223		mg/kg dry	0.0100	0.0838	1	06/01/11 16:28	SW846 8270D	JLS	11E7498
Benzo (b) fluoranthene	0.288		mg/kg dry	0.0475	0.0838	1	06/01/11 16:28	SW846 8270D	JLS	11E7498
Benzo (g,h,i) perylene	0.0775	J	mg/kg dry	0.0113	0.0838	1	06/01/11 16:28	SW846 8270D	JLS	11E7498
Benzo (k) fluoranthene	0.208		mg/kg dry	0.0463	0.0838	1	06/01/11 16:28	SW846 8270D	JLS	11E7498
Chrysene	0.573		mg/kg dry	0.0388	0.0838	1	06/01/11 16:28	SW846 8270D	JLS	11E7498
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0188	0.0838	1	06/01/11 16:28	SW846 8270D	JLS	11E7498
Fluoranthene	1.17		mg/kg dry	0.0138	0.0838	1	06/01/11 16:28	SW846 8270D	JLS	11E7498
Fluorene	1.52		mg/kg dry	0.0250	0.0838	1	06/01/11 16:28	SW846 8270D	JLS	11E7498
Indeno (1,2,3-cd) pyrene	0.0775	J	mg/kg dry	0.0388	0.0838	1	06/01/11 16:28	SW846 8270D	JLS	11E7498
Naphthalene	3.14		mg/kg dry	0.0175	0.0838	1	06/01/11 16:28	SW846 8270D	JLS	11E7498
Phenanthrene	3.80		mg/kg dry	0.0125	0.0838	1	06/01/11 16:28	SW846 8270D	JLS	11E7498
Pyrene	1.20		mg/kg dry	0.0288	0.0838	1	06/01/11 16:28	SW846 8270D	JLS	11E7498
1-Methylnaphthalene	10.4		mg/kg dry	0.150	0.838	10	06/03/11 16:47	SW846 8270D	JLS	11E7498
2-Methylnaphthalene	17.9		mg/kg dry	0.263	0.838	10	06/03/11 16:47	SW846 8270D	JLS	11E7498
Surr: Terphenyl-d14 (18-120%)	93 %					1	06 01 11 16:28	SW846 8270D	JLS	11E7498
Surr: 2-Fluorobiphenyl (14-120%)	63 %					1	06 01 11 16:28	SW846 8270D	JLS	11E7498
Surr: Nitrobenzene-d5 (17-120%)	66 %					1	06 01 11 16:28	SW846 8270D	JLS	11E7498

Client EEG - Small Business Group, Inc. (2449)  
 10179 Highway 78  
 Ladson, SC 29456  
 Attn Tom McElwee

Work Order: NUE4876  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 05/28/11 08:45

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
<b>Sample ID: NUE4876-05 (319 Ash - Soil) Sampled: 05/26/11 11:30</b>										
General Chemistry Parameters										
% Dry Solids	85.2		%	0.500	0.500	1	06/01/11 13:38	SW-846	AMS	11E7556
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00112	0.00204	1	05/31/11 18:02	SW846 8260B	KKK	11E7260
Ethylbenzene	1.27		mg/kg dry	0.0484	0.0988	50	06/01/11 16:05	SW846 8260B	KKK	11F0105
Naphthalene	27.9	E	mg/kg dry	0.168	0.494	100	06/09/11 13:31	SW846 8260B	KKK	11F0581
Toluene	ND	RL1	mg/kg dry	0.0439	0.0988	50	06/01/11 16:05	SW846 8260B	KKK	11F0105
Xylenes, total	1.64		mg/kg dry	0.0938	0.247	50	06/01/11 16:05	SW846 8260B	KKK	11F0105
Surr: 1,2-Dichloroethane-d4 (67-138%)	95 %					1	05 31 11 18:02	SW846 8260B	KKK	11E7260
Surr: 1,2-Dichloroethane-d4 (67-138%)	90 %					50	06 01 11 16:05	SW846 8260B	KKK	11F0105
Surr: 1,2-Dichloroethane-d4 (67-138%)	100 %					100	06 09 11 13:31	SW846 8260B	KKK	11F0581
Surr: Dibromofluoromethane (75-125%)	102 %					1	05 31 11 18:02	SW846 8260B	KKK	11E7260
Surr: Dibromofluoromethane (75-125%)	83 %					50	06 01 11 16:05	SW846 8260B	KKK	11F0105
Surr: Dibromofluoromethane (75-125%)	98 %					100	06 09 11 13:31	SW846 8260B	KKK	11F0581
Surr: Toluene-d8 (76-129%)	155 %	ZX				1	05 31 11 18:02	SW846 8260B	KKK	11E7260
Surr: Toluene-d8 (76-129%)	106 %					50	06 01 11 16:05	SW846 8260B	KKK	11F0105
Surr: Toluene-d8 (76-129%)	100 %					100	06 09 11 13:31	SW846 8260B	KKK	11F0581
Surr: 4-Bromofluorobenzene (67-147%)	320 %	ZX				1	05 31 11 18:02	SW846 8260B	KKK	11E7260
Surr: 4-Bromofluorobenzene (67-147%)	104 %					50	06 01 11 16:05	SW846 8260B	KKK	11F0105
Surr: 4-Bromofluorobenzene (67-147%)	95 %					100	06 09 11 13:31	SW846 8260B	KKK	11F0581
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	1.36		mg/kg dry	0.0162	0.0777	1	06/01/11 16:50	SW846 8270D	JLS	11E7498
Acenaphthylene	ND		mg/kg dry	0.0232	0.0777	1	06/01/11 16:50	SW846 8270D	JLS	11E7498
Anthracene	0.572		mg/kg dry	0.0104	0.0777	1	06/01/11 16:50	SW846 8270D	JLS	11E7498
Benzo (a) anthracene	0.333		mg/kg dry	0.0128	0.0777	1	06/01/11 16:50	SW846 8270D	JLS	11E7498
Benzo (a) pyrene	0.141		mg/kg dry	0.00927	0.0777	1	06/01/11 16:50	SW846 8270D	JLS	11E7498
Benzo (b) fluoranthene	0.168		mg/kg dry	0.0441	0.0777	1	06/01/11 16:50	SW846 8270D	JLS	11E7498
Benzo (g,h,i) perylene	0.0518	J	mg/kg dry	0.0104	0.0777	1	06/01/11 16:50	SW846 8270D	JLS	11E7498
Benzo (k) fluoranthene	0.155		mg/kg dry	0.0429	0.0777	1	06/01/11 16:50	SW846 8270D	JLS	11E7498
Chrysene	0.308		mg/kg dry	0.0359	0.0777	1	06/01/11 16:50	SW846 8270D	JLS	11E7498
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0174	0.0777	1	06/01/11 16:50	SW846 8270D	JLS	11E7498
Fluoranthene	1.23		mg/kg dry	0.0128	0.0777	1	06/01/11 16:50	SW846 8270D	JLS	11E7498
Fluorene	3.23		mg/kg dry	0.0232	0.0777	1	06/01/11 16:50	SW846 8270D	JLS	11E7498
Indeno (1,2,3-cd) pyrene	0.0526	J	mg/kg dry	0.0359	0.0777	1	06/01/11 16:50	SW846 8270D	JLS	11E7498
Naphthalene	12.2		mg/kg dry	0.162	0.777	10	06/03/11 17:09	SW846 8270D	JLS	11E7498
Phenanthrene	10.0		mg/kg dry	0.116	0.777	10	06/03/11 17:09	SW846 8270D	JLS	11E7498
Pyrene	1.30		mg/kg dry	0.0267	0.0777	1	06/01/11 16:50	SW846 8270D	JLS	11E7498
1-Methylnaphthalene	26.4		mg/kg dry	0.139	0.777	10	06/03/11 17:09	SW846 8270D	JLS	11E7498
2-Methylnaphthalene	34.8		mg/kg dry	0.487	1.55	20	06/04/11 20:55	SW846 8270D	JLS	11E7498
Surr: Terphenyl-d14 (18-120%)	89 %					1	06 01 11 16:50	SW846 8270D	JLS	11E7498

Client EEG - Small Business Group, Inc. (2449)  
10179 Highway 78  
Ladson, SC 29456  
Attn Tom McElwee

Work Order: NUE4876  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 05/28/11 08:45

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
<b>Sample ID: NUE4876-05 (319 Ash - Soil) - cont. Sampled: 05/26/11 11:30</b>										
Polyaromatic Hydrocarbons by EPA 8270D - cont.										
Surr: 2-Fluorobiphenyl (14-120%)	61 %					1	06/01/11 16:50	SW846 8270D	JLS	11E7498
Surr: Nitrobenzene-d5 (17-120%)	68 %					1	06/01/11 16:50	SW846 8270D	JLS	11E7498
<b>Sample ID: NUE4876-06 (331 Ash - Soil) Sampled: 05/26/11 16:00</b>										
General Chemistry Parameters										
% Dry Solids	78.4		%	0.500	0.500	1	06/01/11 13:38	SW-846	AMS	11E7556
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00111	0.00203	1	06/01/11 14:36	SW846 8260B	KKK	11F0105
Ethylbenzene	ND	RL1	mg/kg dry	0.0515	0.105	50	06/01/11 15:06	SW846 8260B	KKK	11F0105
Naphthalene	0.306		mg/kg dry	0.0893	0.263	50	06/01/11 15:06	SW846 8260B	KKK	11F0105
Toluene	ND	RL1	mg/kg dry	0.0468	0.105	50	06/01/11 15:06	SW846 8260B	KKK	11F0105
Xylenes, total	ND	RL1	mg/kg dry	0.0998	0.263	50	06/01/11 15:06	SW846 8260B	KKK	11F0105
Surr: 1,2-Dichloroethane-d4 (67-138%)	97 %					1	06/01/11 14:36	SW846 8260B	KKK	11F0105
Surr: 1,2-Dichloroethane-d4 (67-138%)	87 %					50	06/01/11 15:06	SW846 8260B	KKK	11F0105
Surr: Dibromofluoromethane (75-125%)	105 %					1	06/01/11 14:36	SW846 8260B	KKK	11F0105
Surr: Dibromofluoromethane (75-125%)	94 %					50	06/01/11 15:06	SW846 8260B	KKK	11F0105
Surr: Toluene-d8 (76-129%)	141 %	ZX				1	06/01/11 14:36	SW846 8260B	KKK	11F0105
Surr: Toluene-d8 (76-129%)	101 %					50	06/01/11 15:06	SW846 8260B	KKK	11F0105
Surr: 4-Bromofluorobenzene (67-147%)	273 %	ZX				1	06/01/11 14:36	SW846 8260B	KKK	11F0105
Surr: 4-Bromofluorobenzene (67-147%)	102 %					50	06/01/11 15:06	SW846 8260B	KKK	11F0105
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	1.00		mg/kg dry	0.0176	0.0843	1	06/01/11 17:12	SW846 8270D	JLS	11E7498
Acenaphthylene	ND		mg/kg dry	0.0252	0.0843	1	06/01/11 17:12	SW846 8270D	JLS	11E7498
Anthracene	0.446		mg/kg dry	0.0113	0.0843	1	06/01/11 17:12	SW846 8270D	JLS	11E7498
Benzo (a) anthracene	0.328		mg/kg dry	0.0138	0.0843	1	06/01/11 17:12	SW846 8270D	JLS	11E7498
Benzo (a) pyrene	0.166		mg/kg dry	0.0101	0.0843	1	06/01/11 17:12	SW846 8270D	JLS	11E7498
Benzo (b) fluoranthene	0.209		mg/kg dry	0.0478	0.0843	1	06/01/11 17:12	SW846 8270D	JLS	11E7498
Benzo (g,h,i) perylene	0.0600	J	mg/kg dry	0.0113	0.0843	1	06/01/11 17:12	SW846 8270D	JLS	11E7498
Benzo (k) fluoranthene	0.169		mg/kg dry	0.0466	0.0843	1	06/01/11 17:12	SW846 8270D	JLS	11E7498
Chrysene	0.346		mg/kg dry	0.0390	0.0843	1	06/01/11 17:12	SW846 8270D	JLS	11E7498
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0189	0.0843	1	06/01/11 17:12	SW846 8270D	JLS	11E7498
Fluoranthene	0.699		mg/kg dry	0.0138	0.0843	1	06/01/11 17:12	SW846 8270D	JLS	11E7498
Fluorene	2.45		mg/kg dry	0.0252	0.0843	1	06/01/11 17:12	SW846 8270D	JLS	11E7498
Indeno (1,2,3-cd) pyrene	0.0583	J	mg/kg dry	0.0390	0.0843	1	06/01/11 17:12	SW846 8270D	JLS	11E7498
Naphthalene	ND		mg/kg dry	0.0176	0.0843	1	06/01/11 17:12	SW846 8270D	JLS	11E7498
Phenanthrene	7.95		mg/kg dry	0.0629	0.422	5	06/03/11 17:31	SW846 8270D	JLS	11E7498
Pyrene	1.04		mg/kg dry	0.0289	0.0843	1	06/01/11 17:12	SW846 8270D	JLS	11E7498
1-Methylnaphthalene	7.89		mg/kg dry	0.0755	0.422	5	06/03/11 17:31	SW846 8270D	JLS	11E7498
2-Methylnaphthalene	13.8		mg/kg dry	0.132	0.422	5	06/03/11 17:31	SW846 8270D	JLS	11E7498

Client EEG - Small Business Group, Inc. (2449)  
10179 Highway 78  
Ladson, SC 29456  
Attn Tom McElwee

Work Order: NUE4876  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 05/28/11 08:45

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
<b>Sample ID: NUE4876-06 (331 Ash - Soil) - cont. Sampled: 05/26/11 16:00</b>										
Polyaromatic Hydrocarbons by EPA 8270D - cont.										
Surr: Terphenyl-d14 (18-120%)	96 %					1	06/01/11 17:12	SW846 8270D	JLS	11E7498
Surr: 2-Fluorobiphenyl (14-120%)	61 %					1	06/01/11 17:12	SW846 8270D	JLS	11E7498
Surr: Nitrobenzene-d5 (17-120%)	61 %					1	06/01/11 17:12	SW846 8270D	JLS	11E7498



Client EEG - Small Business Group, Inc. (2449)  
 10179 Highway 78  
 Ladson, SC 29456  
 Attn Tom McElwee

Work Order: NUE4876  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 05/28/11 08:45

### SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extract Vol	Date	Analyst	Extraction Method
<b>Polyaromatic Hydrocarbons by EPA 8270D</b>							
SW846 8270D	11E7498	NUE4876-01	30.00	1.00	06/01/11 06:55	JJR	EPA 3550C
SW846 8270D	11E7498	NUE4876-02	30.14	1.00	06/01/11 06:55	JJR	EPA 3550C
SW846 8270D	11E7498	NUE4876-02RE1	30.14	1.00	06/01/11 06:55	JJR	EPA 3550C
SW846 8270D	11E7498	NUE4876-03	30.23	1.00	06/01/11 06:55	JJR	EPA 3550C
SW846 8270D	11E7498	NUE4876-03RE1	30.23	1.00	06/01/11 06:55	JJR	EPA 3550C
SW846 8270D	11E7498	NUE4876-04	30.16	1.00	06/01/11 06:55	JJR	EPA 3550C
SW846 8270D	11E7498	NUE4876-04RE1	30.16	1.00	06/01/11 06:55	JJR	EPA 3550C
SW846 8270D	11E7498	NUE4876-05	30.36	1.00	06/01/11 06:55	JJR	EPA 3550C
SW846 8270D	11E7498	NUE4876-05RE1	30.36	1.00	06/01/11 06:55	JJR	EPA 3550C
SW846 8270D	11E7498	NUE4876-05RE2	30.36	1.00	06/01/11 06:55	JJR	EPA 3550C
SW846 8270D	11E7498	NUE4876-06	30.42	1.00	06/01/11 06:55	JJR	EPA 3550C
SW846 8270D	11E7498	NUE4876-06RE1	30.42	1.00	06/01/11 06:55	JJR	EPA 3550C
<b>Volatile Organic Compounds by EPA Method 8260B</b>							
SW846 8260B	11E7260	NUE4876-01	4.98	5.00	05/23/11 11:45	AAN	EPA 5035
SW846 8260B	11E7260	NUE4876-02	6.44	5.00	05/24/11 11:45	AAN	EPA 5035
SW846 8260B	11F0105	NUE4876-02RE1	5.20	5.00	05/24/11 11:45	AAN	EPA 5035
SW846 8260B	11E7260	NUE4876-03	5.94	5.00	05/24/11 16:00	AAN	EPA 5035
SW846 8260B	11F0105	NUE4876-03RE1	5.98	5.00	05/24/11 16:00	AAN	EPA 5035
SW846 8260B	11F0105	NUE4876-03RE2	6.05	5.00	05/24/11 16:00	AAN	EPA 5035
SW846 8260B	11E7260	NUE4876-04	5.79	5.00	05/25/11 14:45	AAN	EPA 5035
SW846 8260B	11F0105	NUE4876-04RE1	5.67	5.00	05/25/11 14:45	AAN	EPA 5035
SW846 8260B	11E7260	NUE4876-05	5.74	5.00	05/26/11 11:30	AAN	EPA 5035
SW846 8260B	11F0105	NUE4876-05RE1	5.94	5.00	05/26/11 11:30	AAN	EPA 5035
SW846 8260B	11F0581	NUE4876-05RE2	5.94	5.00	05/26/11 11:30	AAN	EPA 5035
SW846 8260B	11E7260	NUE4876-06	6.26	5.00	05/26/11 16:00	AAN	EPA 5035
SW846 8260B	11F0105	NUE4876-06RE1	6.30	5.00	05/26/11 16:00	AAN	EPA 5035
SW846 8260B	11F0105	NUE4876-06RE2	6.07	5.00	05/26/11 16:00	AAN	EPA 5035

Client EEG - Small Business Group, Inc. (2449)  
10179 Highway 78  
Ladson, SC 29456  
Attn Tom McElwee

Work Order: NUE4876  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 05/28/11 08:45

**PROJECT QUALITY CONTROL DATA**  
**Blank**

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
<b>Volatile Organic Compounds by EPA Method 8260B</b>						
<b>11E7260-BLK1</b>						
Benzene	<0.00110		mg/kg wet	11E7260	11E7260-BLK1	05/31/11 12:34
Ethylbenzene	<0.000980		mg/kg wet	11E7260	11E7260-BLK1	05/31/11 12:34
Naphthalene	<0.00170		mg/kg wet	11E7260	11E7260-BLK1	05/31/11 12:34
Toluene	<0.000890		mg/kg wet	11E7260	11E7260-BLK1	05/31/11 12:34
Xylenes, total	<0.00190		mg/kg wet	11E7260	11E7260-BLK1	05/31/11 12:34
Surrogate: 1,2-Dichloroethane-d4	99%			11E7260	11E7260-BLK1	05/31/11 12:34
Surrogate: Dibromofluoromethane	99%			11E7260	11E7260-BLK1	05/31/11 12:34
Surrogate: Toluene-d8	99%			11E7260	11E7260-BLK1	05/31/11 12:34
Surrogate: 4-Bromofluorobenzene	102%			11E7260	11E7260-BLK1	05/31/11 12:34
<b>11F0105-BLK1</b>						
Benzene	<0.00110		mg/kg wet	11F0105	11F0105-BLK1	06/01/11 12:05
Ethylbenzene	<0.000980		mg/kg wet	11F0105	11F0105-BLK1	06/01/11 12:05
Naphthalene	<0.00170		mg/kg wet	11F0105	11F0105-BLK1	06/01/11 12:05
Toluene	<0.000890		mg/kg wet	11F0105	11F0105-BLK1	06/01/11 12:05
Xylenes, total	<0.00190		mg/kg wet	11F0105	11F0105-BLK1	06/01/11 12:05
Surrogate: 1,2-Dichloroethane-d4	96%			11F0105	11F0105-BLK1	06/01/11 12:05
Surrogate: Dibromofluoromethane	94%			11F0105	11F0105-BLK1	06/01/11 12:05
Surrogate: Toluene-d8	98%			11F0105	11F0105-BLK1	06/01/11 12:05
Surrogate: 4-Bromofluorobenzene	104%			11F0105	11F0105-BLK1	06/01/11 12:05
<b>11F0105-BLK2</b>						
Benzene	<0.0550		mg/kg wet	11F0105	11F0105-BLK2	06/01/11 12:35
Ethylbenzene	<0.0490		mg/kg wet	11F0105	11F0105-BLK2	06/01/11 12:35
Naphthalene	<0.0850		mg/kg wet	11F0105	11F0105-BLK2	06/01/11 12:35
Toluene	<0.0445		mg/kg wet	11F0105	11F0105-BLK2	06/01/11 12:35
Xylenes, total	<0.0950		mg/kg wet	11F0105	11F0105-BLK2	06/01/11 12:35
Surrogate: 1,2-Dichloroethane-d4	97%			11F0105	11F0105-BLK2	06/01/11 12:35
Surrogate: Dibromofluoromethane	96%			11F0105	11F0105-BLK2	06/01/11 12:35
Surrogate: Toluene-d8	101%			11F0105	11F0105-BLK2	06/01/11 12:35
Surrogate: 4-Bromofluorobenzene	106%			11F0105	11F0105-BLK2	06/01/11 12:35
<b>11F0581-BLK1</b>						
Benzene	<0.00110		mg/kg wet	11F0581	11F0581-BLK1	06/09/11 12:32
Ethylbenzene	<0.000980		mg/kg wet	11F0581	11F0581-BLK1	06/09/11 12:32
Naphthalene	<0.00170		mg/kg wet	11F0581	11F0581-BLK1	06/09/11 12:32
Toluene	<0.000890		mg/kg wet	11F0581	11F0581-BLK1	06/09/11 12:32
Xylenes, total	<0.00190		mg/kg wet	11F0581	11F0581-BLK1	06/09/11 12:32
Surrogate: 1,2-Dichloroethane-d4	106%			11F0581	11F0581-BLK1	06/09/11 12:32
Surrogate: Dibromofluoromethane	101%			11F0581	11F0581-BLK1	06/09/11 12:32
Surrogate: Toluene-d8	100%			11F0581	11F0581-BLK1	06/09/11 12:32
Surrogate: 4-Bromofluorobenzene	102%			11F0581	11F0581-BLK1	06/09/11 12:32

Client EEG - Small Business Group, Inc. (2449)  
 10179 Highway 78  
 Ladson, SC 29456  
 Attn Tom McElwee

Work Order: NUE4876  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 05/28/11 08:45

**PROJECT QUALITY CONTROL DATA**  
**Blank - Cont.**

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
<b>Volatile Organic Compounds by EPA Method 8260B</b>						
<b>11F0581-BLK2</b>						
Benzene	<0.0550		mg/kg wet	11F0581	11F0581-BLK2	06/09/11 13:02
Ethylbenzene	<0.0490		mg/kg wet	11F0581	11F0581-BLK2	06/09/11 13:02
Naphthalene	<0.0850		mg/kg wet	11F0581	11F0581-BLK2	06/09/11 13:02
Toluene	<0.0445		mg/kg wet	11F0581	11F0581-BLK2	06/09/11 13:02
Xylenes, total	<0.0950		mg/kg wet	11F0581	11F0581-BLK2	06/09/11 13:02
Surrogate: 1,2-Dichloroethane-d4	105%			11F0581	11F0581-BLK2	06/09/11 13:02
Surrogate: Dibromofluoromethane	101%			11F0581	11F0581-BLK2	06/09/11 13:02
Surrogate: Toluene-d8	100%			11F0581	11F0581-BLK2	06/09/11 13:02
Surrogate: 4-Bromofluorobenzene	104%			11F0581	11F0581-BLK2	06/09/11 13:02

**Polyaromatic Hydrocarbons by EPA 8270D**

<b>11E7498-BLK1</b>						
Acenaphthene	<0.0140		mg/kg wet	11E7498	11E7498-BLK1	06/01/11 13:33
Acenaphthylene	<0.0200		mg/kg wet	11E7498	11E7498-BLK1	06/01/11 13:33
Anthracene	<0.00900		mg/kg wet	11E7498	11E7498-BLK1	06/01/11 13:33
Benzo (a) anthracene	<0.0110		mg/kg wet	11E7498	11E7498-BLK1	06/01/11 13:33
Benzo (a) pyrene	<0.00800		mg/kg wet	11E7498	11E7498-BLK1	06/01/11 13:33
Benzo (b) fluoranthene	<0.0380		mg/kg wet	11E7498	11E7498-BLK1	06/01/11 13:33
Benzo (g,h,i) perylene	<0.00900		mg/kg wet	11E7498	11E7498-BLK1	06/01/11 13:33
Benzo (k) fluoranthene	<0.0370		mg/kg wet	11E7498	11E7498-BLK1	06/01/11 13:33
Chrysene	<0.0310		mg/kg wet	11E7498	11E7498-BLK1	06/01/11 13:33
Dibenz (a,h) anthracene	<0.0150		mg/kg wet	11E7498	11E7498-BLK1	06/01/11 13:33
Fluoranthene	<0.0110		mg/kg wet	11E7498	11E7498-BLK1	06/01/11 13:33
Fluorene	<0.0200		mg/kg wet	11E7498	11E7498-BLK1	06/01/11 13:33
Indeno (1,2,3-cd) pyrene	<0.0310		mg/kg wet	11E7498	11E7498-BLK1	06/01/11 13:33
Naphthalene	<0.0140		mg/kg wet	11E7498	11E7498-BLK1	06/01/11 13:33
Phenanthrene	<0.0100		mg/kg wet	11E7498	11E7498-BLK1	06/01/11 13:33
Pyrene	<0.0230		mg/kg wet	11E7498	11E7498-BLK1	06/01/11 13:33
1-Methylnaphthalene	<0.0120		mg/kg wet	11E7498	11E7498-BLK1	06/01/11 13:33
2-Methylnaphthalene	<0.0210		mg/kg wet	11E7498	11E7498-BLK1	06/01/11 13:33
Surrogate: Terphenyl-d14	95%			11E7498	11E7498-BLK1	06/01/11 13:33
Surrogate: 2-Fluorobiphenyl	67%			11E7498	11E7498-BLK1	06/01/11 13:33
Surrogate: Nitrobenzene-d5	69%			11E7498	11E7498-BLK1	06/01/11 13:33

Client EEG - Small Business Group, Inc. (2449)  
10179 Highway 78  
Ladson, SC 29456  
Attn Tom McElwee

Work Order: NUE4876  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 05/28/11 08:45

### PROJECT QUALITY CONTROL DATA

#### Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	% Rec.	Analyzed Date/Time
<b>General Chemistry Parameters</b>										
<b>11E7556-DUP1</b>										
% Dry Solids	81.0	80.8		%	0.2	20	11E7556	NUE4699-10		06/01/11 13:38

Client EEG - Small Business Group, Inc. (2449)  
 10179 Highway 78  
 Ladson, SC 29456  
 Attn Tom McElwee

Work Order: NUE4876  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 05/28/11 08:45

**PROJECT QUALITY CONTROL DATA**  
**LCS**

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
<b>Volatile Organic Compounds by EPA Method 8260B</b>								
<b>11E7260-BS1</b>								
Benzene	50.0	50.4		ug/kg	101%	78 - 126	11E7260	05/31/11 11:04
Ethylbenzene	50.0	55.1		ug/kg	110%	79 - 130	11E7260	05/31/11 11:04
Naphthalene	50.0	54.9		ug/kg	110%	72 - 150	11E7260	05/31/11 11:04
Toluene	50.0	53.0		ug/kg	106%	76 - 126	11E7260	05/31/11 11:04
Xylenes, total	150	167		ug/kg	112%	80 - 130	11E7260	05/31/11 11:04
Surrogate: 1,2-Dichloroethane-d4	50.0	46.6			93%	67 - 138	11E7260	05/31/11 11:04
Surrogate: Dibromofluoromethane	50.0	49.6			99%	75 - 125	11E7260	05/31/11 11:04
Surrogate: Toluene-d8	50.0	51.1			102%	76 - 129	11E7260	05/31/11 11:04
Surrogate: 4-Bromofluorobenzene	50.0	51.3			103%	67 - 147	11E7260	05/31/11 11:04
<b>11F0105-BS1</b>								
Benzene	50.0	52.5		ug/kg	105%	78 - 126	11F0105	06/01/11 10:34
Ethylbenzene	50.0	55.4		ug/kg	111%	79 - 130	11F0105	06/01/11 10:34
Naphthalene	50.0	57.6		ug/kg	115%	72 - 150	11F0105	06/01/11 10:34
Toluene	50.0	53.0		ug/kg	106%	76 - 126	11F0105	06/01/11 10:34
Xylenes, total	150	166		ug/kg	111%	80 - 130	11F0105	06/01/11 10:34
Surrogate: 1,2-Dichloroethane-d4	50.0	43.7			87%	67 - 138	11F0105	06/01/11 10:34
Surrogate: Dibromofluoromethane	50.0	48.3			97%	75 - 125	11F0105	06/01/11 10:34
Surrogate: Toluene-d8	50.0	50.4			101%	76 - 129	11F0105	06/01/11 10:34
Surrogate: 4-Bromofluorobenzene	50.0	51.1			102%	67 - 147	11F0105	06/01/11 10:34
<b>11F0581-BS1</b>								
Benzene	50.0	52.4		ug/kg	105%	78 - 126	11F0581	06/09/11 10:51
Ethylbenzene	50.0	55.6		ug/kg	111%	79 - 130	11F0581	06/09/11 10:51
Naphthalene	50.0	62.1		ug/kg	124%	72 - 150	11F0581	06/09/11 10:51
Toluene	50.0	54.4		ug/kg	109%	76 - 126	11F0581	06/09/11 10:51
Xylenes, total	150	170		ug/kg	114%	80 - 130	11F0581	06/09/11 10:51
Surrogate: 1,2-Dichloroethane-d4	50.0	47.6			95%	67 - 138	11F0581	06/09/11 10:51
Surrogate: Dibromofluoromethane	50.0	49.2			98%	75 - 125	11F0581	06/09/11 10:51
Surrogate: Toluene-d8	50.0	50.3			101%	76 - 129	11F0581	06/09/11 10:51
Surrogate: 4-Bromofluorobenzene	50.0	47.8			96%	67 - 147	11F0581	06/09/11 10:51
<b>Polyaromatic Hydrocarbons by EPA 8270D</b>								
<b>11E7498-BS1</b>								
Acenaphthene	1.67	1.39		mg/kg wet	83%	49 - 120	11E7498	06/01/11 13:55
Acenaphthylene	1.67	1.40		mg/kg wet	84%	52 - 120	11E7498	06/01/11 13:55
Anthracene	1.67	1.49		mg/kg wet	89%	58 - 120	11E7498	06/01/11 13:55
Benzo (a) anthracene	1.67	1.49		mg/kg wet	89%	57 - 120	11E7498	06/01/11 13:55
Benzo (a) pyrene	1.67	1.51		mg/kg wet	91%	55 - 120	11E7498	06/01/11 13:55
Benzo (b) fluoranthene	1.67	1.50		mg/kg wet	90%	51 - 123	11E7498	06/01/11 13:55
Benzo (g,h,i) perylene	1.67	1.46		mg/kg wet	88%	49 - 121	11E7498	06/01/11 13:55
Benzo (k) fluoranthene	1.67	1.50		mg/kg wet	90%	42 - 129	11E7498	06/01/11 13:55

Client EEG - Small Business Group, Inc. (2449)  
 10179 Highway 78  
 Ladson, SC 29456  
 Attn Tom McElwee

Work Order: NUE4876  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 05/28/11 08:45

**PROJECT QUALITY CONTROL DATA**  
**LCS - Cont.**

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
<b>Polyaromatic Hydrocarbons by EPA 8270D</b>								
<b>11E7498-BS1</b>								
Chrysene	1.67	1.47		mg/kg wet	88%	55 - 120	11E7498	06/01/11 13:55
Dibenz (a,h) anthracene	1.67	1.51		mg/kg wet	91%	50 - 123	11E7498	06/01/11 13:55
Fluoranthene	1.67	1.33		mg/kg wet	80%	58 - 120	11E7498	06/01/11 13:55
Fluorene	1.67	1.51		mg/kg wet	91%	54 - 120	11E7498	06/01/11 13:55
Indeno (1,2,3-cd) pyrene	1.67	1.50		mg/kg wet	90%	50 - 122	11E7498	06/01/11 13:55
Naphthalene	1.67	1.30		mg/kg wet	78%	28 - 120	11E7498	06/01/11 13:55
Phenanthrene	1.67	1.54		mg/kg wet	92%	56 - 120	11E7498	06/01/11 13:55
Pyrene	1.67	1.68		mg/kg wet	101%	56 - 120	11E7498	06/01/11 13:55
1-Methylnaphthalene	1.67	1.13		mg/kg wet	68%	36 - 120	11E7498	06/01/11 13:55
2-Methylnaphthalene	1.67	1.26		mg/kg wet	75%	36 - 120	11E7498	06/01/11 13:55
Surrogate: Terphenyl-d14	1.67	1.82			109%	18 - 120	11E7498	06/01/11 13:55
Surrogate: 2-Fluorobiphenyl	1.67	1.13			68%	14 - 120	11E7498	06/01/11 13:55
Surrogate: Nitrobenzene-d5	1.67	1.03			62%	17 - 120	11E7498	06/01/11 13:55

Client EEG - Small Business Group, Inc. (2449)  
 10179 Highway 78  
 Ladson, SC 29456  
 Attn Tom McElwee

Work Order: NUE4876  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 05/28/11 08:45

**PROJECT QUALITY CONTROL DATA**  
**Matrix Spike**

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
<b>Volatile Organic Compounds by EPA Method 8260B</b>										
<b>11F0105-MS1</b>										
Benzene	ND	2.31		mg/kg dry	2.47	94%	42 - 141	11F0105	NUE4876-05RE 1	06/01/11 21:03
Ethylbenzene	1.27	4.07		mg/kg dry	2.47	114%	21 - 165	11F0105	NUE4876-05RE 1	06/01/11 21:03
Naphthalene	15.1	14.6	M2	mg/kg dry	2.47	-20%	10 - 160	11F0105	NUE4876-05RE 1	06/01/11 21:03
Toluene	ND	2.72		mg/kg dry	2.47	110%	45 - 145	11F0105	NUE4876-05RE 1	06/01/11 21:03
Xylenes, total	1.64	8.58		mg/kg dry	7.41	94%	31 - 159	11F0105	NUE4876-05RE 1	06/01/11 21:03
<i>Surrogate: 1,2-Dichloroethane-d4</i>		38.1		ug/kg	50.0	76%	67 - 138	11F0105	NUE4876-05RE 1	06/01/11 21:03
<i>Surrogate: Dibromofluoromethane</i>		42.9		ug/kg	50.0	86%	75 - 125	11F0105	NUE4876-05RE 1	06/01/11 21:03
<i>Surrogate: Toluene-d8</i>		51.9		ug/kg	50.0	104%	76 - 129	11F0105	NUE4876-05RE 1	06/01/11 21:03
<i>Surrogate: 4-Bromofluorobenzene</i>		57.6		ug/kg	50.0	115%	67 - 147	11F0105	NUE4876-05RE 1	06/01/11 21:03
<b>11F0581-MS1</b>										
Benzene	ND	0.0416		mg/kg wet	0.0473	88%	42 - 141	11F0581	NUF0809-13	06/09/11 21:53
Ethylbenzene	ND	0.0462		mg/kg wet	0.0473	98%	21 - 165	11F0581	NUF0809-13	06/09/11 21:53
Naphthalene	ND	0.0230		mg/kg wet	0.0473	49%	10 - 160	11F0581	NUF0809-13	06/09/11 21:53
Toluene	ND	0.0445		mg/kg wet	0.0473	94%	45 - 145	11F0581	NUF0809-13	06/09/11 21:53
Xylenes, total	ND	0.136		mg/kg wet	0.142	96%	31 - 159	11F0581	NUF0809-13	06/09/11 21:53
<i>Surrogate: 1,2-Dichloroethane-d4</i>		51.2		ug/kg	50.0	102%	67 - 138	11F0581	NUF0809-13	06/09/11 21:53
<i>Surrogate: Dibromofluoromethane</i>		49.6		ug/kg	50.0	99%	75 - 125	11F0581	NUF0809-13	06/09/11 21:53
<i>Surrogate: Toluene-d8</i>		50.1		ug/kg	50.0	100%	76 - 129	11F0581	NUF0809-13	06/09/11 21:53
<i>Surrogate: 4-Bromofluorobenzene</i>		46.2		ug/kg	50.0	92%	67 - 147	11F0581	NUF0809-13	06/09/11 21:53
<b>Polyaromatic Hydrocarbons by EPA 8270D</b>										
<b>11E7498-MS1</b>										
Acenaphthene	ND	1.37		mg/kg dry	1.91	72%	42 - 120	11E7498	NUE4826-01	06/01/11 14:17
Acenaphthylene	ND	1.40		mg/kg dry	1.91	73%	32 - 120	11E7498	NUE4826-01	06/01/11 14:17
Anthracene	ND	1.48		mg/kg dry	1.91	77%	10 - 200	11E7498	NUE4826-01	06/01/11 14:17
Benzo (a) anthracene	ND	1.46		mg/kg dry	1.91	76%	41 - 120	11E7498	NUE4826-01	06/01/11 14:17
Benzo (a) pyrene	ND	1.50		mg/kg dry	1.91	78%	33 - 121	11E7498	NUE4826-01	06/01/11 14:17
Benzo (b) fluoranthene	ND	1.50		mg/kg dry	1.91	78%	26 - 137	11E7498	NUE4826-01	06/01/11 14:17
Benzo (g,h,i) perylene	ND	1.43		mg/kg dry	1.91	75%	21 - 124	11E7498	NUE4826-01	06/01/11 14:17
Benzo (k) fluoranthene	ND	1.50		mg/kg dry	1.91	78%	14 - 140	11E7498	NUE4826-01	06/01/11 14:17
Chrysene	ND	1.43		mg/kg dry	1.91	74%	28 - 123	11E7498	NUE4826-01	06/01/11 14:17
Dibenz (a,h) anthracene	ND	1.49		mg/kg dry	1.91	78%	25 - 127	11E7498	NUE4826-01	06/01/11 14:17

Client EEG - Small Business Group, Inc. (2449)  
 10179 Highway 78  
 Ladson, SC 29456  
 Attn Tom McElwee

Work Order: NUE4876  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 05/28/11 08:45

**PROJECT QUALITY CONTROL DATA**  
**Matrix Spike - Cont.**

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
<b>Polyaromatic Hydrocarbons by EPA 8270D</b>										
<b>11E7498-MS1</b>										
Fluoranthene	ND	1.39		mg/kg dry	1.91	73%	38 - 120	11E7498	NUE4826-01	06/01/11 14:17
Fluorene	ND	1.50		mg/kg dry	1.91	78%	41 - 120	11E7498	NUE4826-01	06/01/11 14:17
Indeno (1,2,3-cd) pyrene	ND	1.47		mg/kg dry	1.91	77%	25 - 123	11E7498	NUE4826-01	06/01/11 14:17
Naphthalene	ND	1.33		mg/kg dry	1.91	69%	25 - 120	11E7498	NUE4826-01	06/01/11 14:17
Phenanthrene	ND	1.53		mg/kg dry	1.91	80%	37 - 120	11E7498	NUE4826-01	06/01/11 14:17
Pyrene	ND	1.69		mg/kg dry	1.91	88%	29 - 125	11E7498	NUE4826-01	06/01/11 14:17
1-Methylnaphthalene	ND	1.12		mg/kg dry	1.91	59%	19 - 120	11E7498	NUE4826-01	06/01/11 14:17
2-Methylnaphthalene	ND	1.22		mg/kg dry	1.91	64%	11 - 120	11E7498	NUE4826-01	06/01/11 14:17
Surrogate: Terphenyl-d14		1.76		mg/kg dry	1.91	92%	18 - 120	11E7498	NUE4826-01	06/01/11 14:17
Surrogate: 2-Fluorobiphenyl		1.07		mg/kg dry	1.91	56%	14 - 120	11E7498	NUE4826-01	06/01/11 14:17
Surrogate: Nitrobenzene-d5		0.994		mg/kg dry	1.91	52%	17 - 120	11E7498	NUE4826-01	06/01/11 14:17



Client EEG - Small Business Group, Inc. (2449)  
 10179 Highway 78  
 Ladson, SC 29456  
 Attn Tom McElwee

Work Order: NUE4876  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 05/28/11 08:45

**PROJECT QUALITY CONTROL DATA**  
**Matrix Spike Dup**

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
<b>Volatile Organic Compounds by EPA Method 8260B</b>												
<b>11F0105-MSD1</b>												
Benzene	ND	2.53		mg/kg dry	2.47	102%	42 - 141	9	50	11F0105	NUE4876-05R E1	06/01/11 21:32
Ethylbenzene	1.27	4.06		mg/kg dry	2.47	113%	21 - 165	0.4	50	11F0105	NUE4876-05R E1	06/01/11 21:32
Naphthalene	15.1	17.5		mg/kg dry	2.47	99%	10 - 160	18	50	11F0105	NUE4876-05R E1	06/01/11 21:32
Toluene	ND	2.63		mg/kg dry	2.47	107%	45 - 145	3	50	11F0105	NUE4876-05R E1	06/01/11 21:32
Xylenes, total	1.64	8.22		mg/kg dry	7.41	89%	31 - 159	4	50	11F0105	NUE4876-05R E1	06/01/11 21:32
Surrogate: 1,2-Dichloroethane-d4		44.2		ug/kg	50.0	88%	67 - 138			11F0105	NUE4876-05R E1	06/01/11 21:32
Surrogate: Dibromofluoromethane		48.3		ug/kg	50.0	97%	75 - 125			11F0105	NUE4876-05R E1	06/01/11 21:32
Surrogate: Toluene-d8		52.0		ug/kg	50.0	104%	76 - 129			11F0105	NUE4876-05R E1	06/01/11 21:32
Surrogate: 4-Bromofluorobenzene		61.1		ug/kg	50.0	122%	67 - 147			11F0105	NUE4876-05R E1	06/01/11 21:32
<b>11F0581-MSD1</b>												
Benzene	ND	0.0486		mg/kg wet	0.0446	109%	42 - 141	15	50	11F0581	NUF0809-13	06/09/11 22:22
Ethylbenzene	ND	0.0510		mg/kg wet	0.0446	115%	21 - 165	10	50	11F0581	NUF0809-13	06/09/11 22:22
Naphthalene	ND	0.0389	R	mg/kg wet	0.0446	87%	10 - 160	51	50	11F0581	NUF0809-13	06/09/11 22:22
Toluene	ND	0.0505		mg/kg wet	0.0446	113%	45 - 145	13	50	11F0581	NUF0809-13	06/09/11 22:22
Xylenes, total	ND	0.155		mg/kg wet	0.134	116%	31 - 159	13	50	11F0581	NUF0809-13	06/09/11 22:22
Surrogate: 1,2-Dichloroethane-d4		47.7		ug/kg	50.0	95%	67 - 138			11F0581	NUF0809-13	06/09/11 22:22
Surrogate: Dibromofluoromethane		48.6		ug/kg	50.0	97%	75 - 125			11F0581	NUF0809-13	06/09/11 22:22
Surrogate: Toluene-d8		50.3		ug/kg	50.0	101%	76 - 129			11F0581	NUF0809-13	06/09/11 22:22
Surrogate: 4-Bromofluorobenzene		46.9		ug/kg	50.0	94%	67 - 147			11F0581	NUF0809-13	06/09/11 22:22
<b>Polyaromatic Hydrocarbons by EPA 8270D</b>												
<b>11E7498-MSD1</b>												
Acenaphthene	ND	1.22		mg/kg dry	1.93	63%	42 - 120	12	40	11E7498	NUE4826-01	06/01/11 14:38
Acenaphthylene	ND	1.25		mg/kg dry	1.93	65%	32 - 120	11	30	11E7498	NUE4826-01	06/01/11 14:38
Anthracene	ND	1.34		mg/kg dry	1.93	69%	10 - 200	10	50	11E7498	NUE4826-01	06/01/11 14:38
Benzo (a) anthracene	ND	1.31		mg/kg dry	1.93	68%	41 - 120	11	30	11E7498	NUE4826-01	06/01/11 14:38
Benzo (a) pyrene	ND	1.32		mg/kg dry	1.93	68%	33 - 121	13	33	11E7498	NUE4826-01	06/01/11 14:38
Benzo (b) fluoranthene	ND	1.36		mg/kg dry	1.93	70%	26 - 137	10	42	11E7498	NUE4826-01	06/01/11 14:38
Benzo (g,h,i) perylene	ND	1.27		mg/kg dry	1.93	66%	21 - 124	12	32	11E7498	NUE4826-01	06/01/11 14:38
Benzo (k) fluoranthene	ND	1.28		mg/kg dry	1.93	66%	14 - 140	16	39	11E7498	NUE4826-01	06/01/11 14:38
Chrysene	ND	1.28		mg/kg dry	1.93	66%	28 - 123	11	34	11E7498	NUE4826-01	06/01/11 14:38
Dibenz (a,h) anthracene	ND	1.32		mg/kg dry	1.93	68%	25 - 127	12	31	11E7498	NUE4826-01	06/01/11 14:38
Fluoranthene	ND	1.25		mg/kg dry	1.93	65%	38 - 120	10	35	11E7498	NUE4826-01	06/01/11 14:38
Fluorene	ND	1.31		mg/kg dry	1.93	68%	41 - 120	14	37	11E7498	NUE4826-01	06/01/11 14:38
Indeno (1,2,3-cd) pyrene	ND	1.31		mg/kg dry	1.93	68%	25 - 123	12	32	11E7498	NUE4826-01	06/01/11 14:38

Client EEG - Small Business Group, Inc. (2449)  
 10179 Highway 78  
 Ladson, SC 29456  
 Attn Tom McElwee

Work Order: NUE4876  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 05/28/11 08:45

**PROJECT QUALITY CONTROL DATA**  
**Matrix Spike Dup - Cont.**

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
<b>Polyaromatic Hydrocarbons by EPA 8270D</b>												
<b>11E7498-MSD1</b>												
Naphthalene	ND	1.17		mg/kg dry	1.93	60%	25 - 120	13	42	11E7498	NUE4826-01	06/01/11 14:38
Phenanthrene	ND	1.39		mg/kg dry	1.93	72%	37 - 120	10	32	11E7498	NUE4826-01	06/01/11 14:38
Pyrene	ND	1.47		mg/kg dry	1.93	76%	29 - 125	14	40	11E7498	NUE4826-01	06/01/11 14:38
1-Methylnaphthalene	ND	0.968		mg/kg dry	1.93	50%	19 - 120	15	45	11E7498	NUE4826-01	06/01/11 14:38
2-Methylnaphthalene	ND	1.06		mg/kg dry	1.93	55%	11 - 120	14	50	11E7498	NUE4826-01	06/01/11 14:38
Surrogate: Terphenyl-d14		1.48		mg/kg dry	1.93	77%	18 - 120			11E7498	NUE4826-01	06/01/11 14:38
Surrogate: 2-Fluorobiphenyl		1.01		mg/kg dry	1.93	52%	14 - 120			11E7498	NUE4826-01	06/01/11 14:38
Surrogate: Nitrobenzene-d5		0.903		mg/kg dry	1.93	47%	17 - 120			11E7498	NUE4826-01	06/01/11 14:38

Client EEG - Small Business Group, Inc. (2449)  
10179 Highway 78  
Ladson, SC 29456  
Attn Tom McElwee

Work Order: NUE4876  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 05/28/11 08:45

### CERTIFICATION SUMMARY

#### TestAmerica Nashville

Method	Matrix	AIHA	Nelac	South Carolina
SW846 8260B	Soil	N/A	X	X
SW846 8270D	Soil		X	X
SW-846	Soil			

Client EEG - Small Business Group, Inc. (2449)  
10179 Highway 78  
Ladson, SC 29456  
Attn Tom McElwee

Work Order: NUE4876  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 05/28/11 08:45

## DATA QUALIFIERS AND DEFINITIONS

- E** Concentration exceeds the calibration range and therefore result is semi-quantitative.
- J** Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- R** The RPD exceeded the method control limit. The individual analyte QA/QC recoveries, however, were within acceptance limits.
- RL1** Reporting limit raised due to sample matrix effects.
- ZX** Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
- ND** Not detected at the reporting limit (or method detection limit if shown)

## METHOD MODIFICATION NOTES

NUE4876

06/14/11 23:59



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 #: EEG # 2449

Address: 10179 Highway 78

City/State/Zip: Ladson, SC 29456

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

Telephone Number: 843.412.2087 Fax No: (843) 879-0401

Sampler Name: (Print) PRAH SHAW

Sampler Signature: *P. Shaw*

Site State: SC

PO#: 1027

TA Quote #:

Project ID: Laurel Bay Housing Project

Project #:

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative						Matrix						Analyze For:										RUSH TAT (Pre-Schedule)	Standard TAT	Fax Results	Send QC with report			
							Ice	HNO3 (Red Label)	H2SO4 (Orange Label)	H2SO4 Plastic (Yellow Label)	H2SO4 Glass (Yellow Label)	None (Black Label)	Other (Specify)	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	BTEX + Napth - 82608	PAH - 8270D														
1334 Albatross	5/23/11	1145	5	X													X	X	X																
306 Ash	5/24/11	1145	5	X													X	X	X																
316 Ash	5/24/11	1600	5	X													X	X	X																
320 Ash	5/25/11	1445	5	X													X	X	X																
319 Ash	5/26/11	1130	5	X													X	X	X																
331 Ash	5/26/11	1600	5	X													X	X	X																

Special Instructions:

Laboratory Comments:

Relinquished by: <i>P. Shaw</i>	Date		Time		Received by:		FEDEX	
	5/27/11	0900						
Relinquished by:	Date	Time	Received by TestAmerica:		Date	Time		
					5.28.11	DAUC		

Temperature Upon Receipt: 5.8  
 VOCs Free of Headspace? Y N

ATTACHMENT A

# UST Certificate of Disposal

## CONTRACTOR

Small Business Group, Inc.  
10179 Highway 78  
Ladson, SC 29456

TEL (843) 879-0403  
FAX (843) 879-0401

## TANK ID & LOCATION

UST 320Ash; 320 Ash Street, Laurel Bay Housing Area, MCAS Beaufort, S.C.

## DISPOSAL LOCATION

Coastal Auto Salvage Co., Inc.  
130 Laurel Bay Road  
Beaufort, S.C. 29906

### TYPE OF TANK

Steel

### SIZE (GAL)

280

## CLEANING/DISPOSAL METHOD

The tank and piping were unearthed, cut open, cleaned with a pressure washer, cut into sections, and recycled.

## DISPOSAL CERTIFICATION

I certify that the above tank, piping and equipment has been properly cleaned and disposed of.



(Name)

1 6/27/11

(Date)

**Appendix C**  
**Laboratory Analytical Report - Groundwater**



# Volatile Organic Compounds by GC/MS

Client: <b>AECOM - Resolution Consultants</b>	Laboratory ID: <b>QK11025-010</b>
Description: <b>BEALB320TW01WG20151110</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>11/10/2015 1445</b>	
Date Received: <b>11/11/2015</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/18/2015 1527	PAP		89908

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
Benzene	71-43-2	8260B	0.45	UQ	5.0	0.45	0.21	ug/L	1
Ethylbenzene	100-41-4	8260B	0.51	UQ	5.0	0.51	0.21	ug/L	1
Naphthalene	91-20-3	8260B	0.96	UQ	5.0	0.96	0.14	ug/L	1
Toluene	108-88-3	8260B	0.48	UQ	5.0	0.48	0.24	ug/L	1
Xylenes (total)	1330-20-7	8260B	0.57	UQ	5.0	0.57	0.32	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		107	75-120
1,2-Dichloroethane-d4		100	70-120
Toluene-d8	N	127	85-120
Dibromofluoromethane		102	85-115

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time      Q = Surrogate failure  
 ND = Not detected at or above the MDL      J = Estimated result < PQL and ≥ MDL      P = The RPD between two GC columns exceeds 40%      N = Recovery is out of criteria      L = LCS/LCSD failure  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"      S = MS/MSD failure

# Semivolatile Organic Compounds by GC/MS (SIM)

Client: **AECOM - Resolution Consultants**

Laboratory ID: **QK11025-010**

Description: **BEALB320TW01WG20151110**

Matrix: **Aqueous**

Date Sampled: **11/10/2015 1445**

Date Received: **11/11/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D (SIM)	1	11/18/2015 1356	RBH	11/13/2015 1646	89585

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
Benzo(a)anthracene	56-55-3	8270D (SIM)	0.040	U	0.20	0.040	0.019	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D (SIM)	0.040	U	0.20	0.040	0.019	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D (SIM)	0.040	U	0.20	0.040	0.024	ug/L	1
Chrysene	218-01-9	8270D (SIM)	0.040	U	0.20	0.040	0.021	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D (SIM)	0.080	U	0.20	0.080	0.040	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Methylnaphthalene-d10		74	15-139
Fluoranthene-d10		81	23-154

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time      Q = Surrogate failure  
 ND = Not detected at or above the MDL      J = Estimated result < PQL and ≥ MDL      P = The RPD between two GC columns exceeds 40%      N = Recovery is out of criteria      L = LCS/LCSD failure  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"      S = MS/MSD failure

Shealy Environmental Services, Inc.  
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

**Appendix D**  
**Regulatory Correspondence**



Catherine E. Heigel, Director

*Promoting and protecting the health of the public and the environment*

July 1, 2015

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

RE: IGWA  
Laurel Bay Underground Storage Tank Assessment Reports for:  
*See attached sheet*

Dear Mr. Drawdy,

The South Carolina Department of Health and Environmental Control (the Department) received the referenced Underground Storage Tank Assessment Reports for the addresses listed above. 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. The submitted analytical results indicate that petroleum constituents are above established Risk-Based Screening Levels and additional investigation is warranted. Specifically, the Department requests that a groundwater sampling proposal be generated to determine if there has been an impact to groundwater at this site.

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 [kriegkm@dhec.sc.gov](mailto:kriegkm@dhec.sc.gov) or 803-898-0255.

Sincerely,

Kent Krieg  
Department of Defense Corrective Action Section  
Bureau of Land and Waste Management  
South Carolina Department of Health and Environmental Control

Cc: Russell Berry (via email)  
Craig Ehde (via email)  
Bryan Beck (via email)



Catherine E. Heigel, Director

*Promoting and protecting the health of the public and the environment*

**Attachment to:** Krieg to Drawdy  
 Subject: IGWA  
 Dated 7/1/2015

**Laurel Bay Underground Storage Tank Assessment Reports for: (97 addresses/110 tanks)**

118 Banyan	343 Ash Tank 2
126 Banyan	344 Ash Tank 2
127 Banyan	347 Ash Tank 2
130 Banyan Tank 1	378 Aspen Tank 2
141 Laurel Bay	379 Aspen
151 Laurel Bay	382 Aspen Tank 1
224 Cypress	382 Aspen Tank 2
227 Cypress	394 Acorn Tank 2
256 Beech Tank 2	400 Elderberry
257 Beech Tank 1	432 Elderberry
257 Beech Tank 2	436 Elderberry
264 Beech	473 Dogwood Tank 2
265 Beech Tank 2	482 Laurel Bay
265 Beech Tank 3	517 Laurel Bay
275 Birch	586 Aster
277 Birch Tank 1	632 Dahlia
285 Birch	639 Dahlia Tank 2
292 Birch Tank 3	643 Dahlia Tank 1
297 Birch	644 Dahlia Tank 1
301 Ash	644 Dahlia Tank 2
306 Ash	646 Dahlia Tank 1
310 Ash Tank 1	646 Dahlia Tank 2
313 Ash	665 Camellia
315 Ash Tank 2	699 Abelia
316 Ash	744 Blue Bell
319 Ash	745 Blue Bell Tank 1
320 Ash	747 Blue Bell Tank 1
321 Ash	747 Blue Bell Tank 2
329 Ash	747 Blue Bell Tank 3
330 Ash Tank 2	749 Blue Bell Tank 1
331 Ash	749 Blue Bell Tank 2
332 Ash	751 Blue Bell
333 Ash	762 Althea
335 Ash Tank 1	765 Althea Tank 2
335 Ash Tank 2	766 Althea Tank 4
341 Ash	767 Althea Tank 1
342 Ash Tank 1	768 Althea Tank 2
342 Ash Tank 2	768 Althea Tank 3

**Laurel Bay Underground Storage Tank Assessment Reports for: (98 addresses/110 tanks) cont.**

768 Althea Tank 4	1067 Gardenia
769 Althea Tank 1	1077 Heather
769 Althea Tank 2	1081 Heather
775 Althea	1101 Iris Tank 2
819 Azalea	1104 Iris
840 Azalea	1105 Iris Tank 2
878 Cobia	1124 Iris Tank 2
891 Cobia	1142 Iris Tank 2
913 Barracuda	1146 Iris Tank 2
916 Barracuda	1218 Cardinal
923 Albacore	1240 Dove
1004 Bobwhite	1266 Dove
1022 Foxglove	1292 Eagle
1031 Foxglove	1299 Eagle Tank 1
1034 Foxglove Tank 2	1302 Eagle
1061 Gardenia Tank 3	1336 Albatross
1064 Gardenia	1351 Cardinal



Catherine E. Heigel, Director

*Promoting and protecting the health of the public and the environment*

Division of Waste Management  
Bureau of Land and Waste Management

June 8, 2016

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

RE: Approval and Concurrence with Draft Final Initial Groundwater Investigation Report-November and December 2015  
Laurel Bay Military Housing Area Multiple Properties  
Dated April 2015

Dear Mr. Drawdy,

The South Carolina Department of Health and Environmental Control (the Department) received groundwater data in the above referenced Groundwater Investigation Report for the attached addresses on May 2, 2016. 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).

Per the Department's request, groundwater samples were collected from the attached referenced addresses. The Department reviewed the groundwater data and previous investigations and it agrees with the conclusions and recommendations included in the document. To further assess the impact to groundwater, permanent wells should be installed at the 15 stated addresses. For the remaining 80 addresses, there is no indication of contamination on the property 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](mailto:petruslb@dhec.sc.gov) or 803-898-0294.

Sincerely,

Laurel Petrus  
RCRA Federal Facilities Section

*Attachment: Specific Property Recommendations*

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





**No Further Action recommendation (80 addresses)**

118 Banyan Drive	644 Dahlia Drive
126 Banyan Drive	646 Dahlia Drive
127 Banyan Drive	665 Camellia Drive
141 Laurel Bay Blvd	699 Abelia Street
151 Laurel Bay Blvd	744 Blue Bell Lane
224 Cypress Street	745 Blue Bell Lane
227 Cypress Street	751 Blue Bell Lane
257 Beech Street	762 Althea Street
264 Beech Street	765 Althea Street
265 Beech Street	766 Althea Street
275 Birch Drive	767 Althea Street
277 Birch Drive	768 Althea Street
297 Birch Drive	769 Althea Street
301 Ash Street	819 Azalea Drive
306 Ash Street	840 Azalea Drive
310 Ash Street	878 Cobia Drive
313 Ash Street	891 Cobia Drive
315 Ash Street	913 Barracuda Drive
316 Ash Street	916 Barracuda Drive
319 Ash Street	923 Wren Lane
320 Ash Street	1004 Bobwhite Drive
321 Ash Street	1022 Foxglove Street
329 Ash Street	1031 Foxglove Street
332 Ash Street	1061 Gardenia Drive
333 Ash Street	1064 Gardenia Drive
341 Ash Street	1067 Gardenia Drive
347 Ash Street	1077 Heather Street
378 Aspen Street	1081 Heather Street
379 Aspen Street	1101 Iris Lane
382 Aspen Street	1105 Iris Lane
394 Acorn Street	1142 Iris Lane
400 Elderberry Drive	1146 Iris Lane
432 Elderberry Drive	1218 Cardinal Lane
436 Elderberry Drive	1240 Dove Lane
482 Laurel Bay Blvd	1266 Dove Lane
517 Laurel Bay Blvd	1292 Eagle Lane
586 Aster Street	1299 Eagle Lane
632 Dahlia Drive	1302 Eagle Lane
639 Dahlia Drive	1336 Albatross Drive
643 Dahlia Drive	1351 Cardinal Lane