

SUMMARY REPORT  
72 BARRACUDA DRIVE (FORMERLY 903 BARRACUDA DRIVE)  
LAUREL BAY MILITARY HOUSING AREA  
MARINE CORPS AIR STATION BEAUFORT  
BEAUFORT, SC

Revision: 0  
Prepared for:

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

and



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

JUNE 2021

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Norfolk, Virginia 23511-3095

Prepared by:



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

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

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## List of Acronyms

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

## 1.0 INTRODUCTION

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

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

This report summarizes the results the environmental investigation activities associated with the storage of home heating oil and the potential release of petroleum constituents at the referenced property. Based on the results of the investigation, a No Further Action (NFA) determination has been made by the South Carolina Department of Health and Environmental Control (SCDHEC) for 72 Barracuda Drive (Formerly 903 Barracuda Drive). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

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

### 1.1 Background Information

The LBMH area is located approximately 3.5 miles west of MCAS Beaufort. The area is approximately 970 acres in size and serves as an enlisted and officer family housing area. The area is configured with single family and duplex residential structures, and includes recreation, open space, and community facilities. The community includes approximately 1,300 housing units, including legacy Capehart style homes and newer duplex style homes. The housing area

is bordered on the west by salt marshes and the Broad River, and to the north, east and south by uplands. Forested areas lie along the northern and northeastern borders.

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

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

## 1.2 UST Removal and Assessment Process

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

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

Soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form. In accordance with SCDHEC's *QAPP for the UST Management*

*Division* (SCDHEC, 2016), the soil screening levels consists of SCDHEC risk-based screening levels (RBSLs). It should be noted that the RBSLs for select PAHs were revised in Revision 2.0 of the QAPP (SCDHEC, 2013) and were revised again in Revision 3.0 (SCDHEC, 2015). The screening levels used for evaluation at each site were those levels that were in effect at the time of reporting and review by SCDHEC.

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

## 2.0 SAMPLING ACTIVITIES AND RESULTS

The following section presents the sampling activities and associated results for 72 Barracuda Drive (Formerly 903 Barracuda Drive). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 903 Barracuda Drive* (MCAS Beaufort, 2011). The UST Assessment Report is provided in Appendix B.

### 2.1 UST Removal and Soil Sampling

On December 14, 2010, a single 280 gallon heating oil UST was removed from the front yard adjacent to the porch area at 72 Barracuda Drive (Formerly 903 Barracuda Drive). The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). The UST was removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of the UST was 6'3" 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 72 Barracuda Drive (Formerly 903 Barracuda Drive) were less than the SCDHEC RBSLs, which indicated the subsurface was not impacted by COPCs associated with the former UST at concentrations that presented a potential risk to human health and the environment.

## 3.0 PROPERTY STATUS

Based on the analytical results for soil, SCDHEC made the determination that NFA was required for 72 Barracuda Drive (Formerly 903 Barracuda Drive). This NFA determination was obtained in a letter dated July 1, 2015. SCDHEC's NFA letter is provided in Appendix C.

## 4.0 REFERENCES

Marine Corps Air Station Beaufort, 2011. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 903 Barracuda Drive, Laurel Bay Military Housing Area*, April 2011.

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

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

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

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

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

## Table

**Table 1**  
**Laboratory Analytical Results - Soil**  
**72 Barracuda Drive (Formerly 903 Barracuda Drive)**  
**Laurel Bay Military Housing Area**  
**Marine Corps Air Station Beaufort**  
**Beaufort, South Carolina**

Constituent	SCDHEC RBSLs <sup>(1)</sup>	Results Sample Collected 12/14/10
<b>Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)</b>		
Benzene	0.003	ND
Ethylbenzene	1.15	ND
Naphthalene	0.036	ND
Toluene	0.627	ND
Xylenes, Total	13.01	ND
<b>Semivolatile Organic Compounds Analyzed by EPA Method 8270D (mg/kg)</b>		
Benzo(a)anthracene	0.66	ND
Benzo(b)fluoranthene	0.66	ND
Benzo(k)fluoranthene	0.66	ND
Chrysene	0.66	ND
Dibenz(a,h)anthracene	0.66	ND

**Notes:**

<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

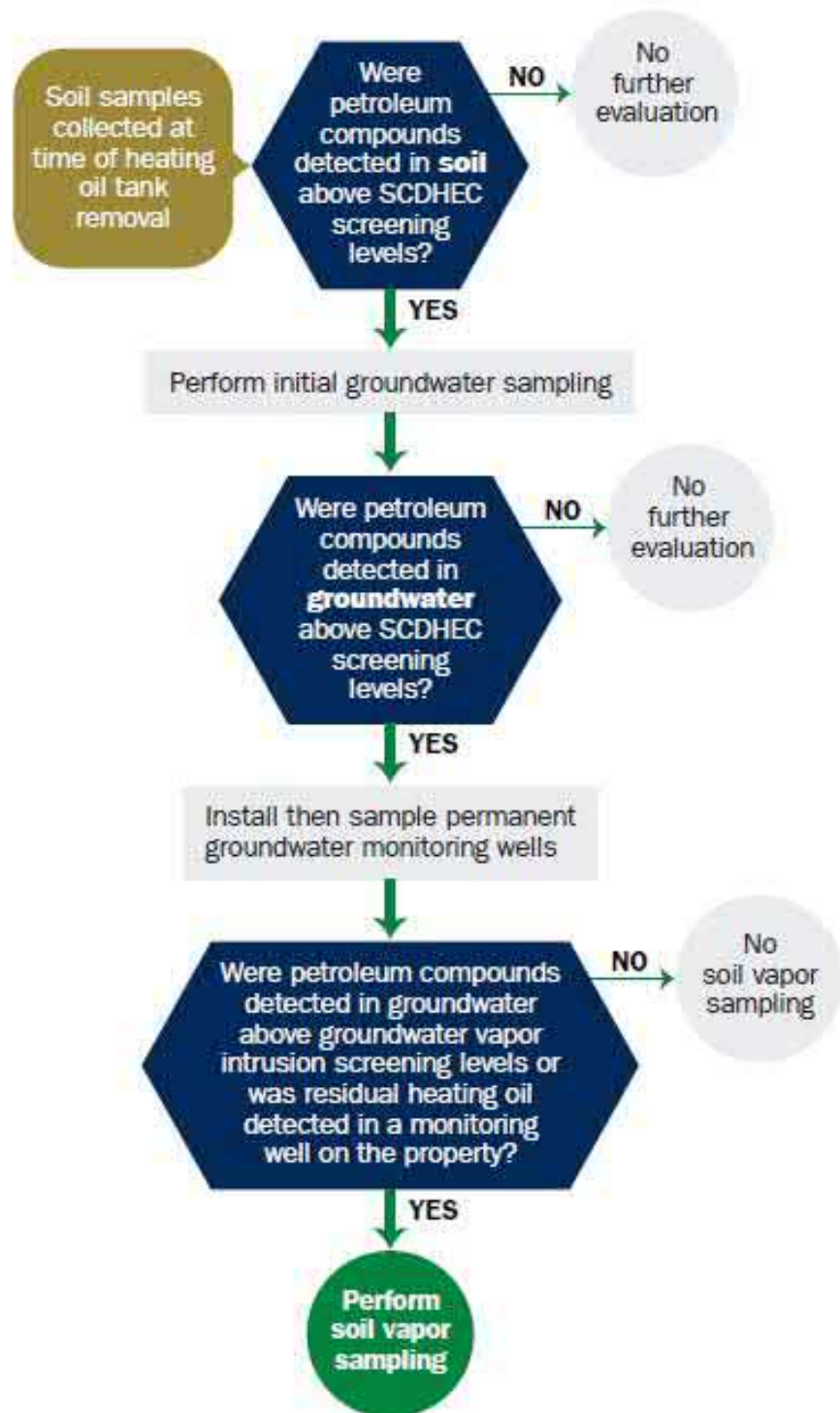
mg/kg - milligram per kilogram

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

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

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



Appendix A - Multi-Media Selection Process for LBMH

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

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

Date Received

State Use Only

**RECEIVED**

APR 19 2011

SC DHEC - Bureau of  
Land & Waste Management

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

903 Barracuda Street, Laurel Bay Military Housing Area  
 Street Address or State Road (as applicable)

Beaufort, Beaufort  
 City County

### 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.....

903 Barracuda				
Heating oil				
280 gal				
Late 1950s				
Steel				
Mid 1980s				
6'3"				
No				
No				
Removed				
12/14/10				
Yes				
Yes				

- M. Method of disposal for any USTs removed from the ground (attach disposal manifests)  
UST 903Barracuda was removed from the ground, and disposed at a  
Subtitle "D" landfill. See Attachment "A".
- 
- N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests)  
The tank had been previously filled with sand by others.
- 
- O. If any corrosion, pitting, or holes were observed, describe the location and extent for each UST  
Corrosion, pitting and holes were found throughout the tank.
-

## VII. PIPING INFORMATION

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.

903 Barracuda				
Steel & Copper				
N/A				
N/A				
Suction				
Yes				
Yes				
No				
Late 1950s				

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

## VIII. BRIEF SITE DESCRIPTION AND HISTORY

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

## IX. SITE CONDITIONS

	Yes	No	Unk
<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>		X	
<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>		X	
<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>		X	
<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>		X	
<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>		X	

## X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 84009001

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
903 B'cuda	Excav at fill end	Soil	Sandy	6'3"	12/14/10 1030 hrs	P. Shaw	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

\* = Depth Below the Surrounding Land Surface

## XI. SAMPLING METHODOLOGY

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

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

## XII. RECEPTORS

	Yes	No
<p>A. Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?</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?</p> <p style="text-align: right;">*Sewer and water</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

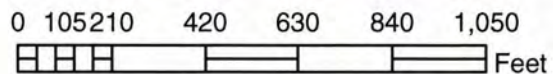
### **XIII. SITE MAP**

**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)



**903 BARRACUDA ST.**



**SBG-EEG, Inc.**

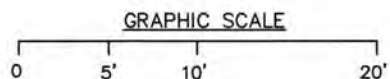
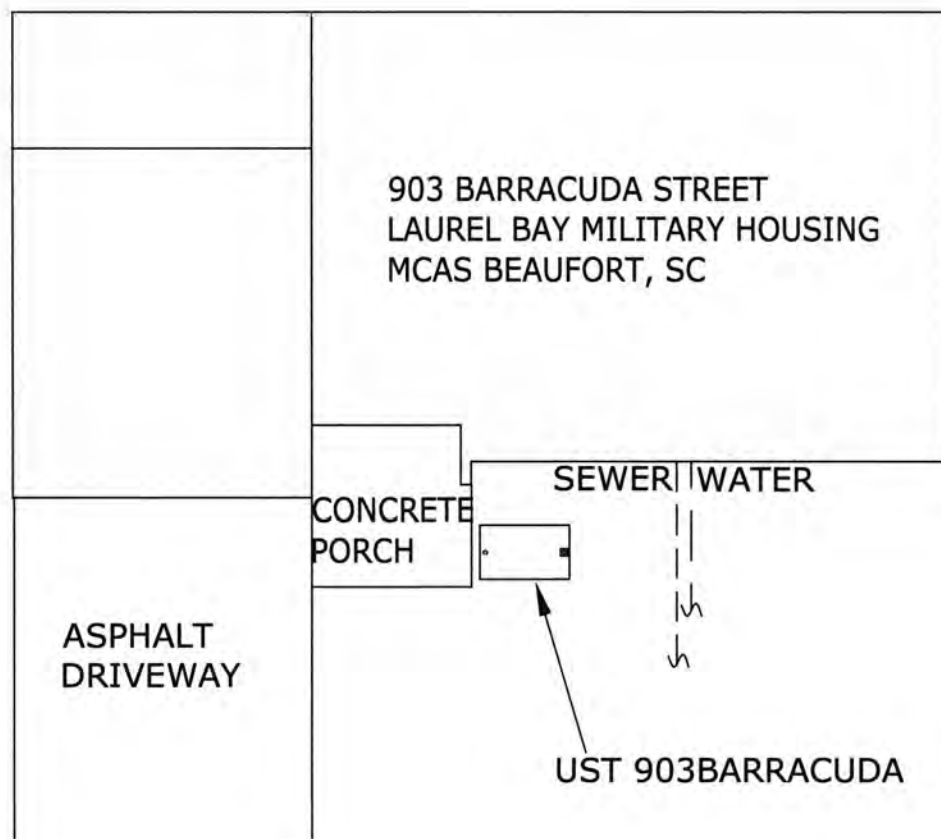
398 E. 5th North Street, Suite C  
Summerville SC 29483-6954

Ph. (843) 875-1930

Drawn By: L. DiAsio

Dwg Date: JAN 2011

**FIGURE 1: LOCATION MAP**  
**903 BARRACUDA STREET**  
**LAUREL BAY, BEAUFORT SC**



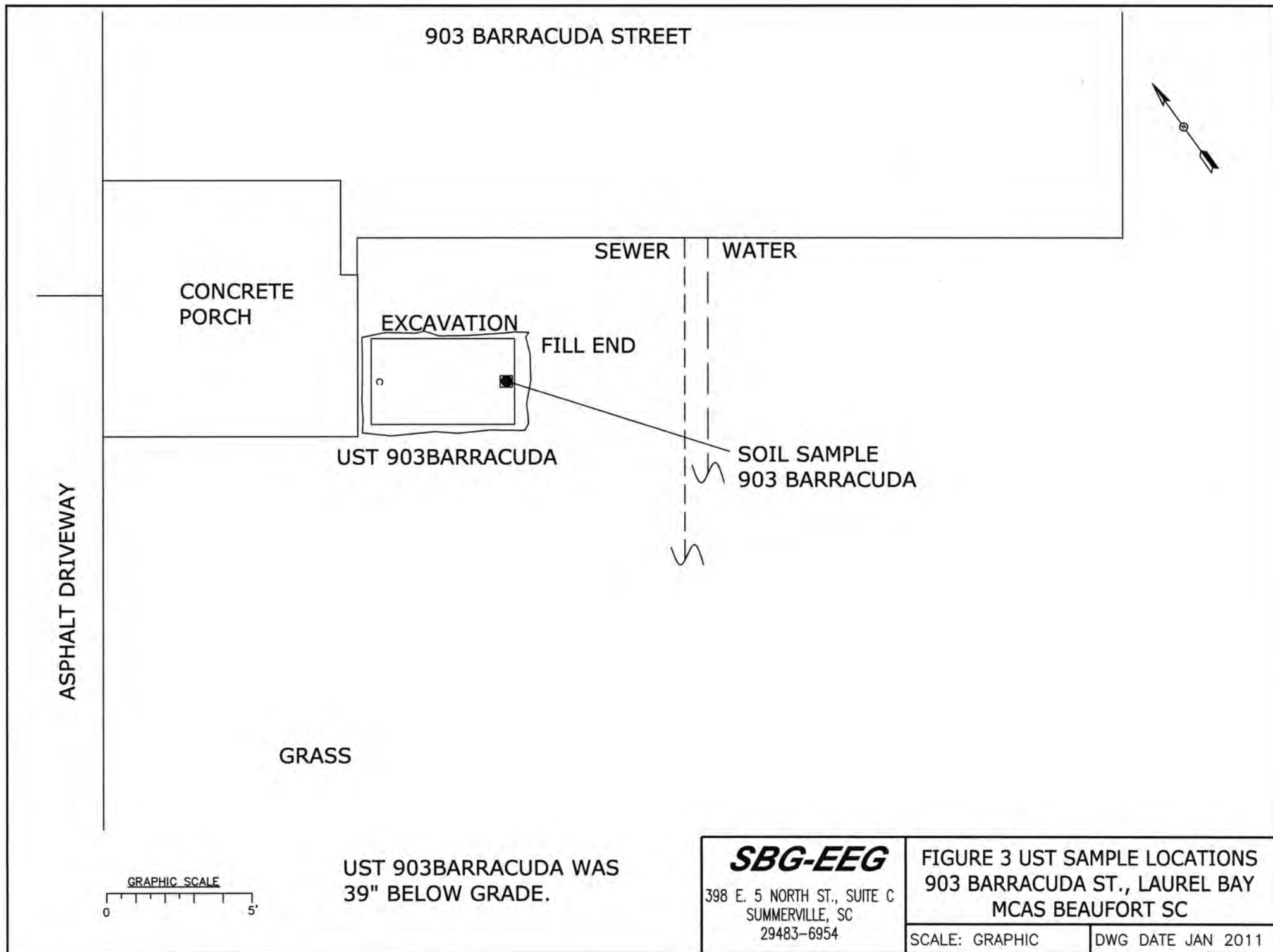
***SBG-EEG***

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

FIGURE 2 SITE MAP  
903 BARRACUDA ST., LAUREL BAY  
MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE JAN 2011





Picture 1: Location of UST 903Barracuda.



Picture 2: 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 903Barracuda							
<b>Benzene</b>	ND							
<b>Toluene</b>	ND							
<b>Ethylbenzene</b>	ND							
<b>Xylenes</b>	ND							
<b>Naphthalene</b>	ND							
<b>Benzo (a) anthracene</b>	ND							
<b>Benzo (b) fluoranthene</b>	ND							
<b>Benzo (k) fluoranthene</b>	ND							
<b>Chrysene</b>	ND							
<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)

December 30, 2010 11:48:33AM

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

Work Order: NTL2521  
Project Name: Laurel Bay Housing Project  
Project Nbr: [none]  
P/O Nbr: 1005  
Date Received: 12/18/10

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
914 Barracuda	NTL2521-01	12/13/10 16:15
903 Barracuda	NTL2521-02	12/14/10 10:30
905 Barracuda	NTL2521-03	12/14/10 15:15

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.

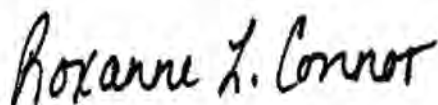
These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

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: NTL2521  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 12/18/10 08:30

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
<b>Sample ID: NTL2521-01 (914 Barracuda - Soil) Sampled: 12/13/10 16:15</b>										
General Chemistry Parameters										
% Dry Solids	89.3		%	0.500	0.500	1	12/21/10 08:56	SW-846	HLB	10L4259
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00143	0.00260	1	12/20/10 13:35	SW846 8260B	KKK	10L4170
Ethylbenzene	ND		mg/kg dry	0.00128	0.00260	1	12/20/10 13:35	SW846 8260B	KKK	10L4170
Naphthalene	ND		mg/kg dry	0.00221	0.00651	1	12/20/10 13:35	SW846 8260B	KKK	10L4170
Toluene	ND		mg/kg dry	0.00116	0.00260	1	12/20/10 13:35	SW846 8260B	KKK	10L4170
Xylenes, total	ND		mg/kg dry	0.00247	0.00651	1	12/20/10 13:35	SW846 8260B	KKK	10L4170
Surr: 1,2-Dichloroethane-d4 (67-138%)	92 %					1	12/20/10 13:35	SW846 8260B	KKK	10L4170
Surr: Dibromofluoromethane (75-125%)	96 %					1	12/20/10 13:35	SW846 8260B	KKK	10L4170
Surr: Toluene-d8 (76-129%)	96 %					1	12/20/10 13:35	SW846 8260B	KKK	10L4170
Surr: 4-Bromofluorobenzene (67-147%)	93 %					1	12/20/10 13:35	SW846 8260B	KKK	10L4170
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0154	0.0739	1	12/21/10 15:27	SW846 8270D	KJP	10L4153
Acenaphthylene	ND		mg/kg dry	0.0221	0.0739	1	12/21/10 15:27	SW846 8270D	KJP	10L4153
Anthracene	ND		mg/kg dry	0.00993	0.0739	1	12/21/10 15:27	SW846 8270D	KJP	10L4153
Benzo (a) anthracene	ND		mg/kg dry	0.0121	0.0739	1	12/21/10 15:27	SW846 8270D	KJP	10L4153
Benzo (a) pyrene	ND		mg/kg dry	0.00883	0.0739	1	12/21/10 15:27	SW846 8270D	KJP	10L4153
Benzo (b) fluoranthene	0.0721	J	mg/kg dry	0.0419	0.0739	1	12/21/10 15:27	SW846 8270D	KJP	10L4153
Benzo (g,h,i) perylene	ND		mg/kg dry	0.00993	0.0739	1	12/21/10 15:27	SW846 8270D	KJP	10L4153
Benzo (k) fluoranthene	ND		mg/kg dry	0.0408	0.0739	1	12/21/10 15:27	SW846 8270D	KJP	10L4153
Chrysene	0.0460	J	mg/kg dry	0.0342	0.0739	1	12/21/10 15:27	SW846 8270D	KJP	10L4153
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0166	0.0739	1	12/21/10 15:27	SW846 8270D	KJP	10L4153
Fluoranthene	ND		mg/kg dry	0.0121	0.0739	1	12/21/10 15:27	SW846 8270D	KJP	10L4153
Fluorene	ND		mg/kg dry	0.0221	0.0739	1	12/21/10 15:27	SW846 8270D	KJP	10L4153
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0342	0.0739	1	12/21/10 15:27	SW846 8270D	KJP	10L4153
Naphthalene	ND		mg/kg dry	0.0154	0.0739	1	12/21/10 15:27	SW846 8270D	KJP	10L4153
Phenanthrene	ND		mg/kg dry	0.0110	0.0739	1	12/21/10 15:27	SW846 8270D	KJP	10L4153
Pyrene	ND		mg/kg dry	0.0254	0.0739	1	12/21/10 15:27	SW846 8270D	KJP	10L4153
1-Methylnaphthalene	ND		mg/kg dry	0.0132	0.0739	1	12/21/10 15:27	SW846 8270D	KJP	10L4153
2-Methylnaphthalene	ND		mg/kg dry	0.0232	0.0739	1	12/21/10 15:27	SW846 8270D	KJP	10L4153
Surr: Terphenyl-d14 (18-120%)	66 %					1	12/21/10 15:27	SW846 8270D	KJP	10L4153
Surr: 2-Fluorobiphenyl (14-120%)	53 %					1	12/21/10 15:27	SW846 8270D	KJP	10L4153
Surr: Nitrobenzene-d5 (17-120%)	57 %					1	12/21/10 15:27	SW846 8270D	KJP	10L4153

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

Work Order: NTL2521  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 12/18/10 08:30

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
<b>Sample ID: NTL2521-02 (903 Barracuda - Soil) Sampled: 12/14/10 10:30</b>										
General Chemistry Parameters										
% Dry Solids	95.6		%	0.500	0.500	1	12/21/10 08:56	SW-846	HLB	10L4259
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00126	0.00229	1	12/20/10 14:05	SW846 8260B	KKK	10L4170
Ethylbenzene	ND		mg/kg dry	0.00112	0.00229	1	12/20/10 14:05	SW846 8260B	KKK	10L4170
Naphthalene	ND		mg/kg dry	0.00195	0.00573	1	12/20/10 14:05	SW846 8260B	KKK	10L4170
Toluene	ND		mg/kg dry	0.00102	0.00229	1	12/20/10 14:05	SW846 8260B	KKK	10L4170
Xylenes, total	ND		mg/kg dry	0.00218	0.00573	1	12/20/10 14:05	SW846 8260B	KKK	10L4170
Surr: 1,2-Dichloroethane-d4 (67-138%)	98 %					1	12/20/10 14:05	SW846 8260B	KKK	10L4170
Surr: Dibromofluoromethane (75-125%)	102 %					1	12/20/10 14:05	SW846 8260B	KKK	10L4170
Surr: Toluene-d8 (76-129%)	93 %					1	12/20/10 14:05	SW846 8260B	KKK	10L4170
Surr: 4-Bromofluorobenzene (67-147%)	107 %					1	12/20/10 14:05	SW846 8260B	KKK	10L4170
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0145	0.0694	1	12/21/10 15:48	SW846 8270D	KJP	10L4153
Acenaphthylene	ND		mg/kg dry	0.0207	0.0694	1	12/21/10 15:48	SW846 8270D	KJP	10L4153
Anthracene	ND		mg/kg dry	0.00933	0.0694	1	12/21/10 15:48	SW846 8270D	KJP	10L4153
Benzo (a) anthracene	ND		mg/kg dry	0.0114	0.0694	1	12/21/10 15:48	SW846 8270D	KJP	10L4153
Benzo (a) pyrene	ND		mg/kg dry	0.00829	0.0694	1	12/21/10 15:48	SW846 8270D	KJP	10L4153
Benzo (b) fluoranthene	ND		mg/kg dry	0.0394	0.0694	1	12/21/10 15:48	SW846 8270D	KJP	10L4153
Benzo (g,h,i) perylene	ND		mg/kg dry	0.00933	0.0694	1	12/21/10 15:48	SW846 8270D	KJP	10L4153
Benzo (k) fluoranthene	ND		mg/kg dry	0.0384	0.0694	1	12/21/10 15:48	SW846 8270D	KJP	10L4153
Chrysene	ND		mg/kg dry	0.0321	0.0694	1	12/21/10 15:48	SW846 8270D	KJP	10L4153
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0155	0.0694	1	12/21/10 15:48	SW846 8270D	KJP	10L4153
Fluoranthene	ND		mg/kg dry	0.0114	0.0694	1	12/21/10 15:48	SW846 8270D	KJP	10L4153
Fluorene	ND		mg/kg dry	0.0207	0.0694	1	12/21/10 15:48	SW846 8270D	KJP	10L4153
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0321	0.0694	1	12/21/10 15:48	SW846 8270D	KJP	10L4153
Naphthalene	ND		mg/kg dry	0.0145	0.0694	1	12/21/10 15:48	SW846 8270D	KJP	10L4153
Phenanthrene	ND		mg/kg dry	0.0104	0.0694	1	12/21/10 15:48	SW846 8270D	KJP	10L4153
Pyrene	ND		mg/kg dry	0.0238	0.0694	1	12/21/10 15:48	SW846 8270D	KJP	10L4153
1-Methylnaphthalene	ND		mg/kg dry	0.0124	0.0694	1	12/21/10 15:48	SW846 8270D	KJP	10L4153
2-Methylnaphthalene	ND		mg/kg dry	0.0218	0.0694	1	12/21/10 15:48	SW846 8270D	KJP	10L4153
Surr: Terphenyl-d14 (18-120%)	58 %					1	12/21/10 15:48	SW846 8270D	KJP	10L4153
Surr: 2-Fluorobiphenyl (14-120%)	52 %					1	12/21/10 15:48	SW846 8270D	KJP	10L4153
Surr: Nitrobenzene-d5 (17-120%)	57 %					1	12/21/10 15:48	SW846 8270D	KJP	10L4153

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

Work Order: NTL2521  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 12/18/10 08:30

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
<b>Sample ID: NTL2521-03 (905 Barracuda - Soil) Sampled: 12/14/10 15:15</b>										
General Chemistry Parameters										
% Dry Solids	94.1		%	0.500	0.500	1	12/21/10 08:56	SW-846	HLB	10L4259
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00129	0.00235	1	12/20/10 14:35	SW846 8260B	KKK	10L4170
Ethylbenzene	ND		mg/kg dry	0.00115	0.00235	1	12/20/10 14:35	SW846 8260B	KKK	10L4170
Naphthalene	ND		mg/kg dry	0.00200	0.00588	1	12/20/10 14:35	SW846 8260B	KKK	10L4170
Toluene	ND		mg/kg dry	0.00105	0.00235	1	12/20/10 14:35	SW846 8260B	KKK	10L4170
Xylenes, total	ND		mg/kg dry	0.00223	0.00588	1	12/20/10 14:35	SW846 8260B	KKK	10L4170
Surr: 1,2-Dichloroethane-d4 (67-138%)	98 %					1	12/20/10 14:35	SW846 8260B	KKK	10L4170
Surr: Dibromofluoromethane (75-125%)	103 %					1	12/20/10 14:35	SW846 8260B	KKK	10L4170
Surr: Toluene-d8 (76-129%)	92 %					1	12/20/10 14:35	SW846 8260B	KKK	10L4170
Surr: 4-Bromofluorobenzene (67-147%)	89 %					1	12/20/10 14:35	SW846 8260B	KKK	10L4170
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.117	0.558	1	12/21/10 16:07	SW846 8270D	KJP	10L4153
Acenaphthylene	ND		mg/kg dry	0.167	0.558	1	12/21/10 16:07	SW846 8270D	KJP	10L4153
Anthracene	ND		mg/kg dry	0.0749	0.558	1	12/21/10 16:07	SW846 8270D	KJP	10L4153
Benzo (a) anthracene	ND		mg/kg dry	0.0916	0.558	1	12/21/10 16:07	SW846 8270D	KJP	10L4153
Benzo (a) pyrene	ND		mg/kg dry	0.0666	0.558	1	12/21/10 16:07	SW846 8270D	KJP	10L4153
Benzo (b) fluoranthene	0.716		mg/kg dry	0.316	0.558	1	12/21/10 16:07	SW846 8270D	KJP	10L4153
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0749	0.558	1	12/21/10 16:07	SW846 8270D	KJP	10L4153
Benzo (k) fluoranthene	ND		mg/kg dry	0.308	0.558	1	12/21/10 16:07	SW846 8270D	KJP	10L4153
Chrysene	0.480	J	mg/kg dry	0.258	0.558	1	12/21/10 16:07	SW846 8270D	KJP	10L4153
Dibenz (a,h) anthracene	ND		mg/kg dry	0.125	0.558	1	12/21/10 16:07	SW846 8270D	KJP	10L4153
Fluoranthene	ND		mg/kg dry	0.0916	0.558	1	12/21/10 16:07	SW846 8270D	KJP	10L4153
Fluorene	ND		mg/kg dry	0.167	0.558	1	12/21/10 16:07	SW846 8270D	KJP	10L4153
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.258	0.558	1	12/21/10 16:07	SW846 8270D	KJP	10L4153
Naphthalene	ND		mg/kg dry	0.117	0.558	1	12/21/10 16:07	SW846 8270D	KJP	10L4153
Phenanthrene	ND		mg/kg dry	0.0833	0.558	1	12/21/10 16:07	SW846 8270D	KJP	10L4153
Pyrene	1.07		mg/kg dry	0.192	0.558	1	12/21/10 16:07	SW846 8270D	KJP	10L4153
1-Methylnaphthalene	ND		mg/kg dry	0.0999	0.558	1	12/21/10 16:07	SW846 8270D	KJP	10L4153
2-Methylnaphthalene	0.414	J	mg/kg dry	0.175	0.558	1	12/21/10 16:07	SW846 8270D	KJP	10L4153
Surr: Terphenyl-d14 (18-120%)	63 %					1	12/21/10 16:07	SW846 8270D	KJP	10L4153
Surr: 2-Fluorobiphenyl (14-120%)	51 %					1	12/21/10 16:07	SW846 8270D	KJP	10L4153
Surr: Nitrobenzene-d5 (17-120%)	58 %					1	12/21/10 16:07	SW846 8270D	KJP	10L4153

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

Work Order: NTL2521  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 12/18/10 08:30

## SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extract Vol	Date	Analyst	Extraction Method
Polyaromatic Hydrocarbons by EPA 8270D							
SW846 8270D	10L4153	NTL2521-01	30.43	1.00	12/20/10 12:28	SAS	EPA 3550C
SW846 8270D	10L4153	NTL2521-02	30.27	1.00	12/20/10 12:28	SAS	EPA 3550C
SW846 8270D	10L4153	NTL2521-03	3.83	1.00	12/20/10 12:28	SAS	EPA 3550C
Volatile Organic Compounds by EPA Method 8260B							
SW846 8260B	10L4170	NTL2521-01	4.30	5.00	12/13/10 16:15	JRL	EPA 5035
SW846 8260B	10L4170	NTL2521-02	4.56	5.00	12/14/10 10:30	JRL	EPA 5035
SW846 8260B	10L4170	NTL2521-03	4.52	5.00	12/14/10 15:15	JRL	EPA 5035

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

Work Order: NTL2521  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 12/18/10 08:30

## 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>10L4170-BLK1</b>						
Benzene	<0.00110		mg/kg wet	10L4170	10L4170-BLK1	12/20/10 12:34
Ethylbenzene	<0.000980		mg/kg wet	10L4170	10L4170-BLK1	12/20/10 12:34
Naphthalene	<0.00170		mg/kg wet	10L4170	10L4170-BLK1	12/20/10 12:34
Toluene	<0.000890		mg/kg wet	10L4170	10L4170-BLK1	12/20/10 12:34
Xylenes, total	<0.00190		mg/kg wet	10L4170	10L4170-BLK1	12/20/10 12:34
Surrogate: 1,2-Dichloroethane-d4	94%			10L4170	10L4170-BLK1	12/20/10 12:34
Surrogate: Dibromofluoromethane	102%			10L4170	10L4170-BLK1	12/20/10 12:34
Surrogate: Toluene-d8	93%			10L4170	10L4170-BLK1	12/20/10 12:34
Surrogate: 4-Bromofluorobenzene	109%			10L4170	10L4170-BLK1	12/20/10 12:34

## Polyaromatic Hydrocarbons by EPA 8270D

<b>10L4153-BLK1</b>						
Acenaphthene	<0.0140		mg/kg wet	10L4153	10L4153-BLK1	12/21/10 12:09
Acenaphthylene	<0.0200		mg/kg wet	10L4153	10L4153-BLK1	12/21/10 12:09
Anthracene	<0.00900		mg/kg wet	10L4153	10L4153-BLK1	12/21/10 12:09
Benzo (a) anthracene	<0.0110		mg/kg wet	10L4153	10L4153-BLK1	12/21/10 12:09
Benzo (a) pyrene	<0.00800		mg/kg wet	10L4153	10L4153-BLK1	12/21/10 12:09
Benzo (b) fluoranthene	<0.0380		mg/kg wet	10L4153	10L4153-BLK1	12/21/10 12:09
Benzo (g,h,i) perylene	<0.00900		mg/kg wet	10L4153	10L4153-BLK1	12/21/10 12:09
Benzo (k) fluoranthene	<0.0370		mg/kg wet	10L4153	10L4153-BLK1	12/21/10 12:09
Chrysene	<0.0310		mg/kg wet	10L4153	10L4153-BLK1	12/21/10 12:09
Dibenz (a,h) anthracene	<0.0150		mg/kg wet	10L4153	10L4153-BLK1	12/21/10 12:09
Fluoranthene	<0.0110		mg/kg wet	10L4153	10L4153-BLK1	12/21/10 12:09
Fluorene	<0.0200		mg/kg wet	10L4153	10L4153-BLK1	12/21/10 12:09
Indeno (1,2,3-cd) pyrene	<0.0310		mg/kg wet	10L4153	10L4153-BLK1	12/21/10 12:09
Naphthalene	<0.0140		mg/kg wet	10L4153	10L4153-BLK1	12/21/10 12:09
Phenanthrene	<0.0100		mg/kg wet	10L4153	10L4153-BLK1	12/21/10 12:09
Pyrene	<0.0230		mg/kg wet	10L4153	10L4153-BLK1	12/21/10 12:09
1-Methylnaphthalene	<0.0120		mg/kg wet	10L4153	10L4153-BLK1	12/21/10 12:09
2-Methylnaphthalene	<0.0210		mg/kg wet	10L4153	10L4153-BLK1	12/21/10 12:09
Surrogate: Terphenyl-d14	71%			10L4153	10L4153-BLK1	12/21/10 12:09
Surrogate: 2-Fluorobiphenyl	61%			10L4153	10L4153-BLK1	12/21/10 12:09
Surrogate: Nitrobenzene-d5	70%			10L4153	10L4153-BLK1	12/21/10 12:09

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

Work Order: NTL2521  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 12/18/10 08:30

## 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>10L4259-DUP1</b>										
% Dry Solids	97.8	97.2		%	0.6	20	10L4259	NTL2278-01		12/21/10 08:56

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

Work Order: NTL2521  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 12/18/10 08:30

## 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>10L4170-BS1</b>								
Benzene	50.0	53.8		ug/kg	108%	78 - 126	10L4170	12/20/10 10:36
Ethylbenzene	50.0	54.4		ug/kg	109%	79 - 130	10L4170	12/20/10 10:36
Naphthalene	50.0	57.0		ug/kg	114%	72 - 150	10L4170	12/20/10 10:36
Toluene	50.0	48.9		ug/kg	98%	76 - 126	10L4170	12/20/10 10:36
Xylenes, total	150	165		ug/kg	110%	80 - 130	10L4170	12/20/10 10:36
Surrogate: 1,2-Dichloroethane-d4	50.0	45.7			91%	67 - 138	10L4170	12/20/10 10:36
Surrogate: Dibromofluoromethane	50.0	48.4			97%	75 - 125	10L4170	12/20/10 10:36
Surrogate: Toluene-d8	50.0	46.4			93%	76 - 129	10L4170	12/20/10 10:36
Surrogate: 4-Bromofluorobenzene	50.0	54.1			108%	67 - 147	10L4170	12/20/10 10:36

## Polyaromatic Hydrocarbons by EPA 8270D

<b>10L4153-BS1</b>								
Acenaphthene	1.67	1.13		mg/kg wet	68%	49 - 120	10L4153	12/21/10 12:29
Acenaphthylene	1.67	1.25		mg/kg wet	75%	52 - 120	10L4153	12/21/10 12:29
Anthracene	1.67	1.28		mg/kg wet	77%	58 - 120	10L4153	12/21/10 12:29
Benzo (a) anthracene	1.67	1.35		mg/kg wet	81%	57 - 120	10L4153	12/21/10 12:29
Benzo (a) pyrene	1.67	1.41		mg/kg wet	85%	55 - 120	10L4153	12/21/10 12:29
Benzo (b) fluoranthene	1.67	1.24		mg/kg wet	75%	51 - 123	10L4153	12/21/10 12:29
Benzo (g,h,i) perylene	1.67	1.33		mg/kg wet	80%	49 - 121	10L4153	12/21/10 12:29
Benzo (k) fluoranthene	1.67	1.34		mg/kg wet	80%	42 - 129	10L4153	12/21/10 12:29
Chrysene	1.67	1.32		mg/kg wet	79%	55 - 120	10L4153	12/21/10 12:29
Dibenz (a,h) anthracene	1.67	1.32		mg/kg wet	79%	50 - 123	10L4153	12/21/10 12:29
Fluoranthene	1.67	1.21		mg/kg wet	73%	58 - 120	10L4153	12/21/10 12:29
Fluorene	1.67	1.20		mg/kg wet	72%	54 - 120	10L4153	12/21/10 12:29
Indeno (1,2,3-cd) pyrene	1.67	1.33		mg/kg wet	80%	50 - 122	10L4153	12/21/10 12:29
Naphthalene	1.67	1.13		mg/kg wet	68%	28 - 120	10L4153	12/21/10 12:29
Phenanthrene	1.67	1.26		mg/kg wet	75%	56 - 120	10L4153	12/21/10 12:29
Pyrene	1.67	1.33		mg/kg wet	80%	56 - 120	10L4153	12/21/10 12:29
1-Methylnaphthalene	1.67	0.986		mg/kg wet	59%	36 - 120	10L4153	12/21/10 12:29
2-Methylnaphthalene	1.67	1.12		mg/kg wet	67%	36 - 120	10L4153	12/21/10 12:29
Surrogate: Terphenyl-d14	1.67	1.10			66%	18 - 120	10L4153	12/21/10 12:29
Surrogate: 2-Fluorobiphenyl	1.67	0.997			60%	14 - 120	10L4153	12/21/10 12:29
Surrogate: Nitrobenzene-d5	1.67	1.11			67%	17 - 120	10L4153	12/21/10 12:29

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

Work Order: NTL2521  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 12/18/10 08:30

## PROJECT QUALITY CONTROL DATA

### LCS 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>10L4170-BSD1</b>												
Benzene		51.1		ug/kg	50.0	102%	78 - 126	5	50	10L4170		12/20/10 11:05
Ethylbenzene		51.9		ug/kg	50.0	104%	79 - 130	5	50	10L4170		12/20/10 11:05
Naphthalene		50.2		ug/kg	50.0	100%	72 - 150	13	50	10L4170		12/20/10 11:05
Toluene		46.9		ug/kg	50.0	94%	76 - 126	4	50	10L4170		12/20/10 11:05
Xylenes, total		157		ug/kg	150	105%	80 - 130	5	50	10L4170		12/20/10 11:05
Surrogate: 1,2-Dichloroethane-d4		45.5		ug/kg	50.0	91%	67 - 138			10L4170		12/20/10 11:05
Surrogate: Dibromofluoromethane		49.1		ug/kg	50.0	98%	75 - 125			10L4170		12/20/10 11:05
Surrogate: Toluene-d8		47.1		ug/kg	50.0	94%	76 - 129			10L4170		12/20/10 11:05
Surrogate: 4-Bromofluorobenzene		49.4		ug/kg	50.0	99%	67 - 147			10L4170		12/20/10 11:05

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

Work Order: NTL2521  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 12/18/10 08:30

## 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>10L4170-MS1</b>										
Benzene	ND	0.0418		mg/kg dry	0.0398	105%	42 - 141	10L4170	NTL2316-02	12/20/10 16:38
Ethylbenzene	ND	0.0441		mg/kg dry	0.0398	111%	21 - 165	10L4170	NTL2316-02	12/20/10 16:38
Naphthalene	ND	0.0429		mg/kg dry	0.0398	108%	10 - 160	10L4170	NTL2316-02	12/20/10 16:38
Toluene	ND	0.0318		mg/kg dry	0.0398	80%	45 - 145	10L4170	NTL2316-02	12/20/10 16:38
Xylenes, total	ND	0.135		mg/kg dry	0.119	113%	31 - 159	10L4170	NTL2316-02	12/20/10 16:38
Surrogate: 1,2-Dichloroethane-d4		47.5		ug/kg	50.0	95%	67 - 138	10L4170	NTL2316-02	12/20/10 16:38
Surrogate: Dibromofluoromethane		51.6		ug/kg	50.0	103%	75 - 125	10L4170	NTL2316-02	12/20/10 16:38
Surrogate: Toluene-d8		38.1		ug/kg	50.0	76%	76 - 129	10L4170	NTL2316-02	12/20/10 16:38
Surrogate: 4-Bromofluorobenzene		57.1		ug/kg	50.0	114%	67 - 147	10L4170	NTL2316-02	12/20/10 16:38
<b>Polyaromatic Hydrocarbons by EPA 8270D</b>										
<b>10L4153-MS1</b>										
Acenaphthene	ND	0.910		mg/kg wet	1.65	55%	42 - 120	10L4153	NTL2299-01	12/21/10 12:48
Acenaphthylene	ND	1.00		mg/kg wet	1.65	61%	32 - 120	10L4153	NTL2299-01	12/21/10 12:48
Anthracene	ND	1.08		mg/kg wet	1.65	65%	10 - 200	10L4153	NTL2299-01	12/21/10 12:48
Benzo (a) anthracene	ND	1.14		mg/kg wet	1.65	69%	41 - 120	10L4153	NTL2299-01	12/21/10 12:48
Benzo (a) pyrene	ND	1.15		mg/kg wet	1.65	70%	33 - 121	10L4153	NTL2299-01	12/21/10 12:48
Benzo (b) fluoranthene	ND	1.23		mg/kg wet	1.65	74%	26 - 137	10L4153	NTL2299-01	12/21/10 12:48
Benzo (g,h,i) perylene	ND	1.10		mg/kg wet	1.65	67%	21 - 124	10L4153	NTL2299-01	12/21/10 12:48
Benzo (k) fluoranthene	ND	0.962		mg/kg wet	1.65	58%	14 - 140	10L4153	NTL2299-01	12/21/10 12:48
Chrysene	ND	1.12		mg/kg wet	1.65	68%	28 - 123	10L4153	NTL2299-01	12/21/10 12:48
Dibenz (a,h) anthracene	ND	1.11		mg/kg wet	1.65	67%	25 - 127	10L4153	NTL2299-01	12/21/10 12:48
Fluoranthene	ND	1.04		mg/kg wet	1.65	63%	38 - 120	10L4153	NTL2299-01	12/21/10 12:48
Fluorene	ND	1.01		mg/kg wet	1.65	62%	41 - 120	10L4153	NTL2299-01	12/21/10 12:48
Indeno (1,2,3-cd) pyrene	ND	1.12		mg/kg wet	1.65	68%	25 - 123	10L4153	NTL2299-01	12/21/10 12:48
Naphthalene	ND	0.937		mg/kg wet	1.65	57%	25 - 120	10L4153	NTL2299-01	12/21/10 12:48
Phenanthrene	ND	1.06		mg/kg wet	1.65	65%	37 - 120	10L4153	NTL2299-01	12/21/10 12:48
Pyrene	ND	1.12		mg/kg wet	1.65	68%	29 - 125	10L4153	NTL2299-01	12/21/10 12:48
1-Methylnaphthalene	ND	0.792		mg/kg wet	1.65	48%	19 - 120	10L4153	NTL2299-01	12/21/10 12:48
2-Methylnaphthalene	ND	0.908		mg/kg wet	1.65	55%	11 - 120	10L4153	NTL2299-01	12/21/10 12:48
Surrogate: Terphenyl-d14		0.919		mg/kg wet	1.65	56%	18 - 120	10L4153	NTL2299-01	12/21/10 12:48
Surrogate: 2-Fluorobiphenyl		0.829		mg/kg wet	1.65	50%	14 - 120	10L4153	NTL2299-01	12/21/10 12:48
Surrogate: Nitrobenzene-d5		0.893		mg/kg wet	1.65	54%	17 - 120	10L4153	NTL2299-01	12/21/10 12:48

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

Work Order: NTL2521  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 12/18/10 08:30

## 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>10L4170-MSD1</b>												
Benzene	ND	0.0396		mg/kg dry	0.0388	102%	42 - 141	5	50	10L4170	NTL2316-02	12/20/10 17:08
Ethylbenzene	ND	0.0402		mg/kg dry	0.0388	104%	21 - 165	9	50	10L4170	NTL2316-02	12/20/10 17:08
Naphthalene	ND	0.0402		mg/kg dry	0.0388	104%	10 - 160	6	50	10L4170	NTL2316-02	12/20/10 17:08
Toluene	ND	0.0362		mg/kg dry	0.0388	93%	45 - 145	13	50	10L4170	NTL2316-02	12/20/10 17:08
Xylenes, total	ND	0.124		mg/kg dry	0.116	106%	31 - 159	9	50	10L4170	NTL2316-02	12/20/10 17:08
Surrogate: 1,2-Dichloroethane-d4		48.3		ug/kg	50.0	97%	67 - 138			10L4170	NTL2316-02	12/20/10 17:08
Surrogate: Dibromofluoromethane		51.1		ug/kg	50.0	102%	75 - 125			10L4170	NTL2316-02	12/20/10 17:08
Surrogate: Toluene-d8		46.0		ug/kg	50.0	92%	76 - 129			10L4170	NTL2316-02	12/20/10 17:08
Surrogate: 4-Bromofluorobenzene		51.3		ug/kg	50.0	103%	67 - 147			10L4170	NTL2316-02	12/20/10 17:08
<b>Polyaromatic Hydrocarbons by EPA 8270D</b>												
<b>10L4153-MSD1</b>												
Acenaphthene	ND	1.01		mg/kg wet	1.66	61%	42 - 120	11	40	10L4153	NTL2299-01	12/21/10 13:08
Acenaphthylene	ND	1.12		mg/kg wet	1.66	68%	32 - 120	12	30	10L4153	NTL2299-01	12/21/10 13:08
Anthracene	ND	1.14		mg/kg wet	1.66	69%	10 - 200	6	50	10L4153	NTL2299-01	12/21/10 13:08
Benzo (a) anthracene	ND	1.22		mg/kg wet	1.66	74%	41 - 120	7	30	10L4153	NTL2299-01	12/21/10 13:08
Benzo (a) pyrene	ND	1.29		mg/kg wet	1.66	78%	33 - 121	11	33	10L4153	NTL2299-01	12/21/10 13:08
Benzo (b) fluoranthene	ND	1.12		mg/kg wet	1.66	67%	26 - 137	9	42	10L4153	NTL2299-01	12/21/10 13:08
Benzo (g,h,i) perylene	ND	1.20		mg/kg wet	1.66	73%	21 - 124	8	32	10L4153	NTL2299-01	12/21/10 13:08
Benzo (k) fluoranthene	ND	1.21		mg/kg wet	1.66	73%	14 - 140	22	39	10L4153	NTL2299-01	12/21/10 13:08
Chrysene	ND	1.19		mg/kg wet	1.66	72%	28 - 123	5	34	10L4153	NTL2299-01	12/21/10 13:08
Dibenz (a,h) anthracene	ND	1.18		mg/kg wet	1.66	71%	25 - 127	7	31	10L4153	NTL2299-01	12/21/10 13:08
Fluoranthene	ND	1.11		mg/kg wet	1.66	67%	38 - 120	7	35	10L4153	NTL2299-01	12/21/10 13:08
Fluorene	ND	1.08		mg/kg wet	1.66	65%	41 - 120	7	37	10L4153	NTL2299-01	12/21/10 13:08
Indeno (1,2,3-cd) pyrene	ND	1.19		mg/kg wet	1.66	72%	25 - 123	6	32	10L4153	NTL2299-01	12/21/10 13:08
Naphthalene	ND	1.01		mg/kg wet	1.66	61%	25 - 120	8	42	10L4153	NTL2299-01	12/21/10 13:08
Phenanthrene	ND	1.15		mg/kg wet	1.66	69%	37 - 120	8	32	10L4153	NTL2299-01	12/21/10 13:08
Pyrene	ND	1.17		mg/kg wet	1.66	71%	29 - 125	4	40	10L4153	NTL2299-01	12/21/10 13:08
1-Methylnaphthalene	ND	0.889		mg/kg wet	1.66	54%	19 - 120	11	45	10L4153	NTL2299-01	12/21/10 13:08
2-Methylnaphthalene	ND	1.01		mg/kg wet	1.66	61%	11 - 120	11	50	10L4153	NTL2299-01	12/21/10 13:08
Surrogate: Terphenyl-d14		0.966		mg/kg wet	1.66	58%	18 - 120			10L4153	NTL2299-01	12/21/10 13:08
Surrogate: 2-Fluorobiphenyl		0.913		mg/kg wet	1.66	55%	14 - 120			10L4153	NTL2299-01	12/21/10 13:08
Surrogate: Nitrobenzene-d5		1.01		mg/kg wet	1.66	61%	17 - 120			10L4153	NTL2299-01	12/21/10 13:08

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

Work Order: NTL2521  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 12/18/10 08:30

## 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: NTL2521  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 12/18/10 08:30

## DATA QUALIFIERS AND DEFINITIONS

**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.

**ND** Not detected at the reporting limit (or method detection limit if shown)

## METHOD MODIFICATION NOTES

01/06/11 23:59

THE LEADER IN ENVIRONMENTAL TESTING

**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?

**Sampler Signature:**

Enforcement Action?	Yes	No
---------------------	-----	----

PO#: 1005

TA Quote #:

**Project ID:** Laurel Bay Housing Project

Project #:

[illegible]

ATTACHMENT A



# NON-HAZARDOUS MANIFEST

<b>NON-HAZARDOUS MANIFEST</b>		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of 1				
3. Generator's Mailing Address: MCAS, BEAUFORT LAUREL BAY HOUSING BEAUFORT, SC 29907				Generator's Site Address (if different than mailing):		A. Manifest Number <b>WMNA 00316804</b>				
4. Generator's Phone 843-228-6461						B. State Generator's ID				
5. Transporter 1 Company Name EEG, INC.				6. US EPA ID Number		C. State Transporter's ID				
						D. Transporter's Phone 843-879-0411				
7. Transporter 2 Company Name				8. US EPA ID Number		E. State Transporter's ID				
						F. Transporter's Phone				
9. Designated Facility Name and Site Address HICKORY HILL LANDFILL 2621 LOW COUNTRY ROAD RIDGELAND, SC 29936				10. US EPA ID Number		G. State Facility ID				
						H. State Facility Phone 843-987-4643				
GENERATOR	11. Description of Waste Materials				12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments	
	a. HEATING OIL TANKS FILLED WITH SAND				No.	Type				
	WM Profile # 102655SC						200	9.76		
	b.									
	WM Profile #									
c.										
WM Profile #										
d.										
WM Profile #										
J. Additional Descriptions for Materials Listed Above				K. Disposal Location						
				Cell		Level				
				Grid						
15. Special Handling Instructions and Additional Information LIST'S FROM: 1) 915✓ BARRACUDA 4) 903✓ BARRACUDA 9) 901✓ BARRACUDA 1) 922✓ BARRACUDA 3) 914✓ BARRACUDA 5) 905✓ BARRACUDA										
Purchase Order #				EMERGENCY CONTACT / PHONE NO.:						
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.										
Printed Name Charles H. Herrera				Signature "On behalf of" Charles H. Herrera				Month 02	Day 28	Year 11
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials									
	Printed Name James Baldwin		Signature James Baldwin		Month 3		Day 2		Year 11	
FACILITY	18. Transporter 2 Acknowledgement of Receipt of Materials									
	Printed Name		Signature		Month		Day		Year	
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.										
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.										
Printed Name Toni Cofield				Signature Toni Cofield				Month 3	Day 2	Year 11

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY

Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY

## **Appendix C**

### **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: No Further Action  
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 Tanks (USTs) 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 and agrees there is no indication of soil or groundwater contamination on these properties, and therefore no further investigation is required at this time.

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

If you have any questions, please contact me at [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:** NFA  
**Dated** 7/1/2015

**Laurel Bay Underground Storage Tank Assessment Reports for: (153 addresses/161 tanks)**

111 Birch	363 Aspen
123 Banyan	364 Aspen
131 Banyan	366 Aspen
134 Banyan	369 Aspen
145 Laurel Bay	373 Aspen
150 Laurel Bay	381 Aspen
153 Laurel Bay	401 Elderberry
154 Laurel Bay	402 Elderberry
155 Laurel Bay	404 Elderberry
200 Balsam	410 Elderberry
202 Balsam	420 Elderberry
203 Balsam	424 Elderberry
208 Balsam	435 Elderberry Tank 3
210 Balsam	452 Elderberry
211 Balsam	460 Elderberry
220 Cypress	465 Dogwood
222 Cypress	477 Laurel Bay
223 Cypress	487 Laurel Bay
252 Beech Tank 2	513 Laurel Bay
271 Beech Tank 1	519 Laurel Bay
271 Beech Tank 2	524 Laurel Bay
284 Birch Tank 1	535 Laurel Bay
284 Birch Tank 2	553 Dahlia
308 Ash	590 Aster
311 Ash	591 Aster
312 Ash	610 Dahlia
317 Ash	612 Dahlia
318 Ash	628 Dahlia
337 Ash	636 Dahlia
351 Ash Tank 1	637 Dahlia Tank 1
351 Ash Tank 2	637 Dahlia Tank 2
355 Ash Tank 1	641 Dahlia
355 Ash Tank 2	642 Dahlia Tank 1
360 Aspen	642 Dahlia Tank 2

**Laurel Bay Underground Storage Tank Assessment Reports for: (153 addresses/161 tanks) cont.**

655 Camellia	920 Albacore
662 Camellia	922 Barracuda Tank 1
683 Camellia	922 Barracuda Tank 2
684 Camellia	924 Albacore
689 Abelia	925 Albacore
694 Abelia	926 Albacore
695 Abelia	930 Albacore
741 Blue Bell	931 Albacore
742 Blue Bell	933 Albacore
755 Althea	936 Albacore
757 Althea	938 Albacore
776 Laurel Bay	939 Albacore
777 Azalea	940 Albacore
779 Laurel Bay	1010 Foxglove
781 Laurel Bay	1066 Gardenia
802 Azalea	1068 Gardenia
816 Azalea	1071 Heather Tank 2
822 Azalea	1100 Iris Tank 2
823 Azalea	1128 Iris
825 Azalea	1178 Bobwhite
828 Azalea	1204 Cardinal
837 Azalea	1208 Cardinal
851 Dolphin	1209 Cardinal
856 Dolphin	1210 Cardinal
857 Dolphin	1215 Cardinal
861 Dolphin	1216 Cardinal
864 Dolphin	1217 Cardinal Tank 1
868 Dolphin	1217 Cardinal Tank 2
872 Dolphin	1233 Dove
879 Cobia	1244 Dove
886 Cobia	1250 Dove
888 Cobia	1252 Dove
889 Cobia	1254 Dove
901 Barracuda	1256 Dove
902 Barracuda	1258 Dove
903 Barracuda	1263 Dove
904 Barracuda	1269 Dove
909 Barracuda	1276 Dove
910 Barracuda	1283 Dove
914 Barracuda	1285 Dove
915 Barracuda	1288 Eagle

**Laurel Bay Underground Storage Tank Assessment Reports for: (153 addresses/161 tanks) cont.**

1296 Eagle	1330 Albatross
1307 Eagle	1331 Albatross
1321 Albatross	1333 Albatross
1322 Albatross	1334 Albatross
1327 Albatross	1335 Albatross
1328 Albatross	