

**SUMMARY REPORT
46 BANYAN DRIVE (FORMERLY 116 BANYAN DRIVE)
LAUREL BAY MILITARY HOUSING AREA
MARINE CORPS AIR STATION BEAUFORT
BEAUFORT, SC**

**Revision: 0
Prepared for:**

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

and



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

JUNE 2021

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Prepared by:

CDM - AECOM
Multimedia Joint Venture

**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
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 46 Banyan Drive (Formerly 116 Banyan 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, February 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, May 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 46 Banyan Drive (Formerly 116 Banyan Drive). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 116 Banyan Drive* (MCAS Beaufort, 2009). 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 – July 2013* (Resolution Consultants, 2015). 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 February 26, 2009, a single 280 gallon heating oil UST was removed from the landscaped bed area adjacent to the driveway at 46 Banyan Drive (Formerly 116 Banyan Drive). 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 5'9" 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 46 Banyan Drive (Formerly 116 Banyan Drive) were greater than the SCDHEC RBSLs, which indicated further investigation was required. In a letter dated May 12, 2009, SCDHEC requested an IGWA for 46 Banyan Drive (Formerly 116 Banyan Drive) to determine if the groundwater was impacted by petroleum COPCs. SCDHEC's request letter is provided in Appendix D.

2.3 Groundwater Sampling

On July 18, 2013, a temporary monitoring well was installed at 46 Banyan Drive (Formerly 116 Banyan Drive), 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–July 2013* (Resolution Consultants, 2015).

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 – July 2013* (Resolution Consultants, 2015).

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 46 Banyan Drive (Formerly 116 Banyan Drive) 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 46 Banyan Drive (Formerly 116 Banyan Drive). This NFA determination was obtained in a letter dated August 6, 2015. SCDHEC's NFA letter is provided in Appendix D.

4.0 REFERENCES

Marine Corps Air Station Beaufort, 2009. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 116 Banyan Drive, Laurel Bay Military Housing Area*, April 2009.

Resolution Consultants, 2015. *Initial Groundwater Investigation Report – July 2013 for Laurel Bay Military Housing Area, Multiple Properties, Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort, Beaufort, South Carolina*, June 2015.

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

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

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

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

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

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
46 Banyan Drive (Formerly 116 Banyan Drive)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Results Sample Collected 02/26/09
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)		
Benzene	0.003	ND
Ethylbenzene	1.15	0.0271
Naphthalene	0.036	14.8
Toluene	0.627	ND
Xylenes, Total	13.01	0.00689
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (mg/kg)		
Benzo(a)anthracene	0.66	0.230
Benzo(b)fluoranthene	0.66	0.107
Benzo(k)fluoranthene	0.66	ND
Chrysene	0.66	0.220
Dibenz(a,h)anthracene	0.66	ND

Notes:

⁽¹⁾ South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 1.0 and 1.1 (SCDHEC, May 2001 and SCDHEC, February 2011) 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
46 Banyan Drive (Formerly 116 Banyan Drive)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Site-Specific Groundwater VISLs (µg/L) ⁽²⁾	Results Sample Collected 07/18/13
Volatile Organic Compounds Analyzed by EPA Method 8260B (µg/L)			
Benzene	5	16.24	ND
Ethylbenzene	700	45.95	ND
Naphthalene	25	29.33	1.4
Toluene	1000	105,445	ND
Xylenes, Total	10,000	2,133	ND
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (µg/L)			
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:

(1) 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).

(2) 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 1×10^{-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.

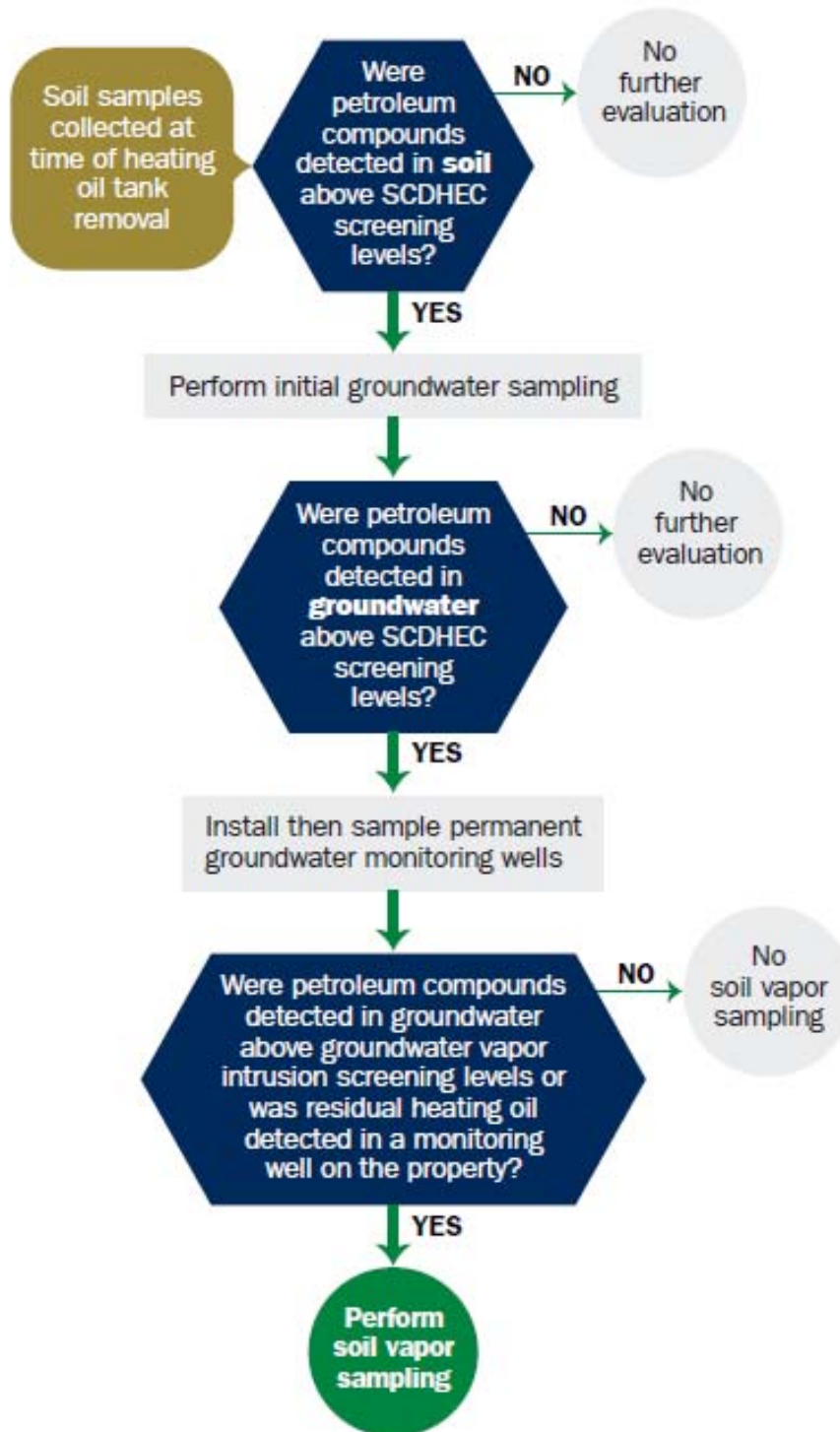
RBSL - Risk-Based Screening Level

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

04173

Attachment 1

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

Date Received
State Use Only

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

RECEIVED

APR 24 2009

SITE ASSESSMENT,
REMEDICATION &
REVITALIZATION

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	
Laurel Bay Military Housing Area, 116 Banyan Street	
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

Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
116	Banyan				
heating					
oil					
280					
gal					
Late					
1950s					
steel					
Mid					
1980s					
5'9"					
No					
No					
Removed					
2/26/09					
Yes					
Yes					

- 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.....

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

N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests)
 The contaminated water was pumped from the tank and disposed of by the MCAS Beaufort.

O. If any corrosion, pitting, or holes were observed, describe the location and extent for each UST
 Holes due to corrosion were found on seams at ends of the tank.

VII. PIPING INFORMATION

	Tank 1 116	Tank 2 Banyan	Tank 3	Tank 4	Tank 5	Tank 6
A. Construction Material..(ex. Steel, FRP).....	Steel					
B. Distance from UST to Dispenser.....	/copper					
C. Number of Dispensers.....	N/A					
D. Type of System Pressure or Suction.....	N/A					
E. Was Piping Removed from the Ground? Y/N	Suction					
F. Visible Corrosion or Pitting Y/N.....	Yes					
G. Visible Holes Y/N.....	Yes					
H. Age.....	No					
	Early 1950s					

- I. If any corrosion, pitting, or holes were observed, describe the location and extent for each piping run.
 Corrosion noted on exterior of steel pipe.

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.) strong odor noted during excavation</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 96012001

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
116	Banyan 1	Excav at fill end	Soil	Clay	5' 9"	2/26/09 1120 hrs	S. Pratt
2							
3							
4							
5							
6							
7							
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.

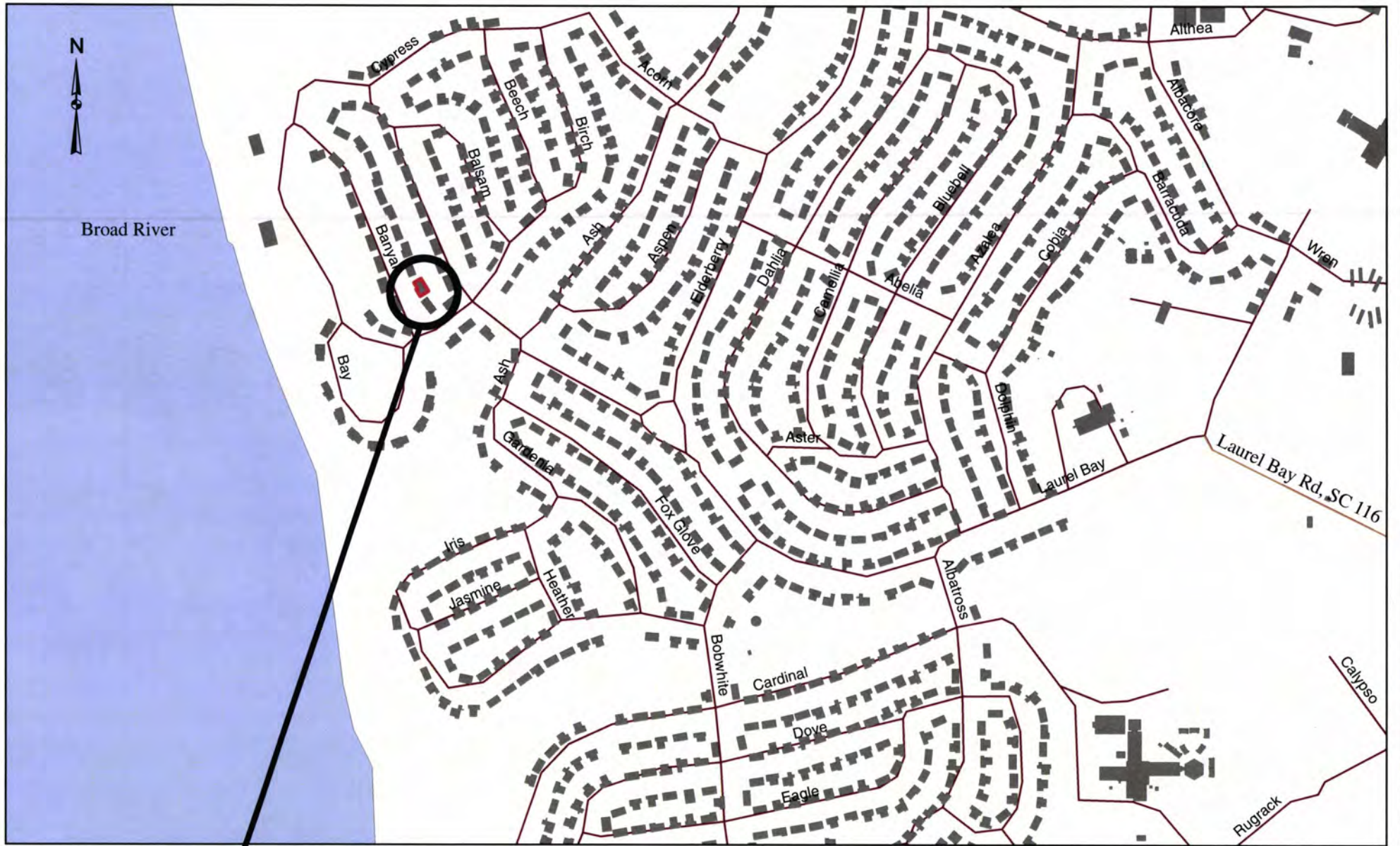
XII. RECEPTORS

	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? *Sewer, water, electricity, cable, fiber optic</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

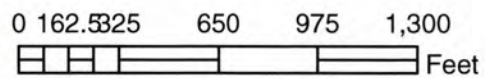
XIII. SITE MAP

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)



116 Banyan



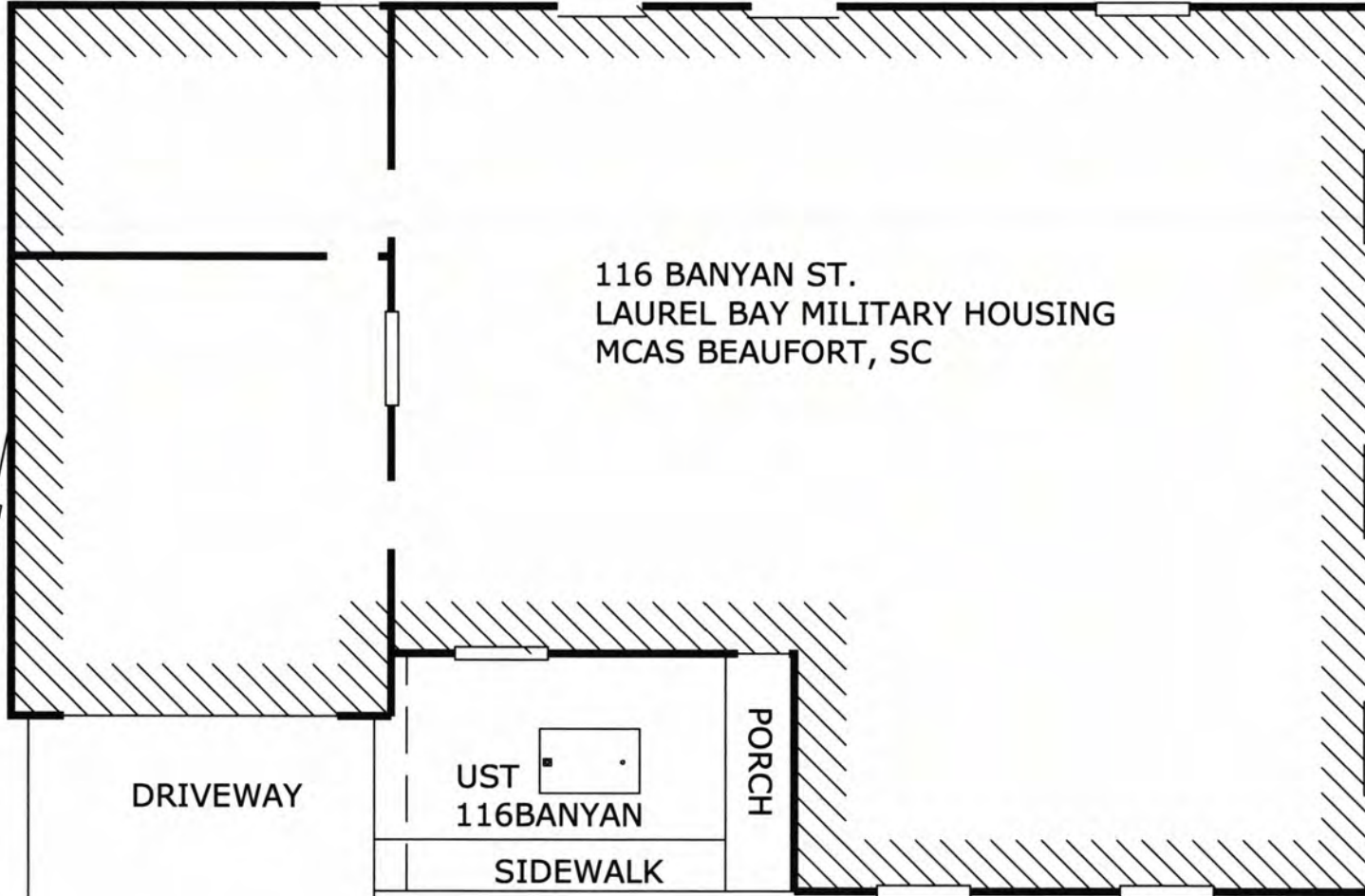
SBG-EEG, Inc.	
Small Business Group, Inc. 10179 Hwy 78 Ladson, SC 29456	
Ph. (843) 879-0400	
Drawn By:	L. DiAsio
Dwg Date:	Mar 2009

FIGURE 1: LOCATION MAP
116 BANYAN ST., LAUREL BAY
MCAS BEAUFORT SC

705' BROAD RIVER



116 BANYAN ST.
LAUREL BAY MILITARY HOUSING
MCAS BEAUFORT, SC



DRIVEWAY

UST
116BANYAN

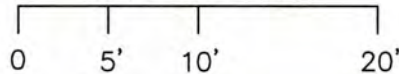
PORCH

SIDEWALK

WASTE WATER

POWER
POLE

GRAPHIC SCALE



SBG-EEG

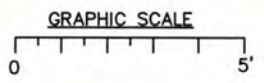
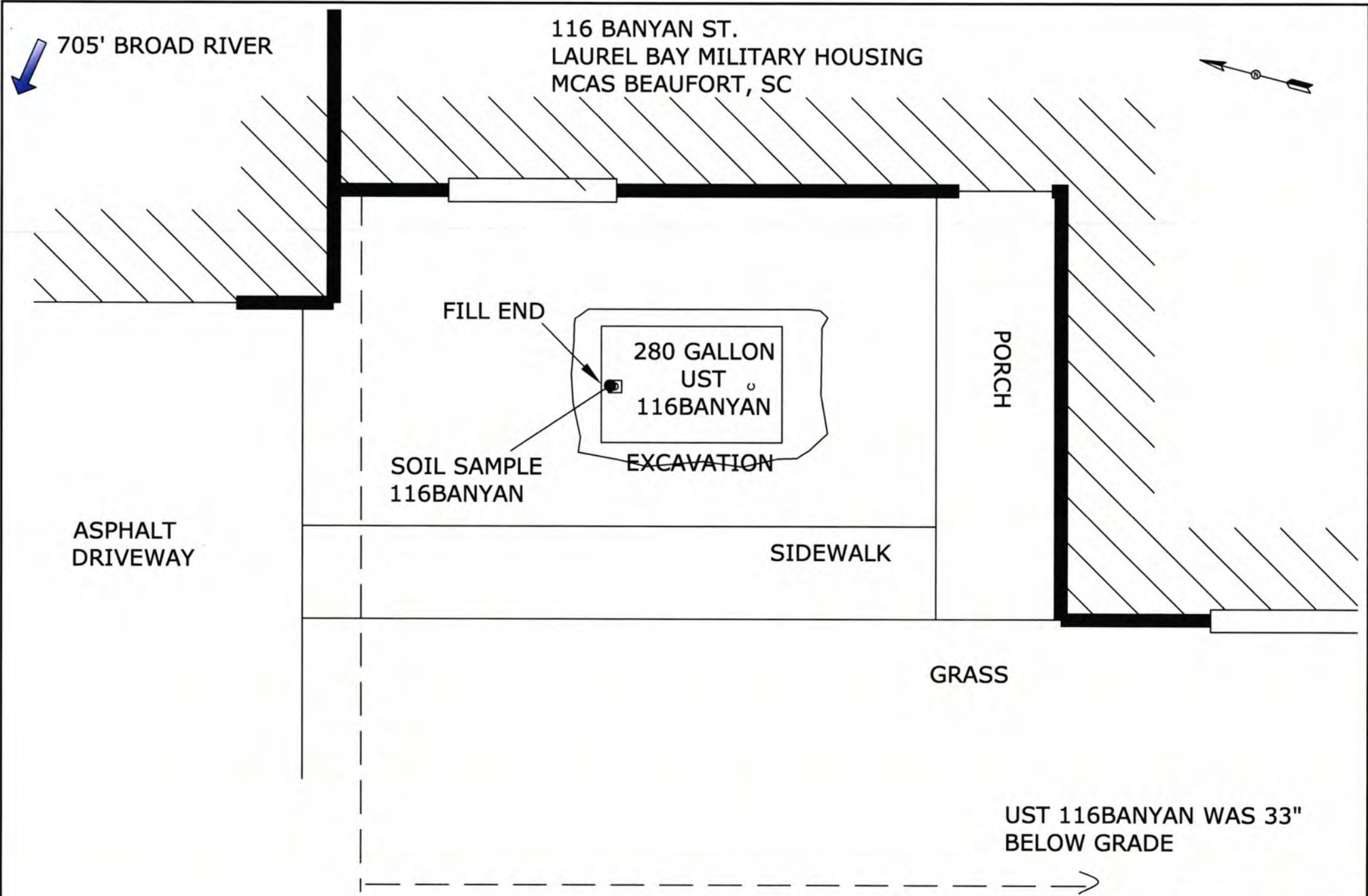
10179 HWY 78
LADSON, SC 29456

ph. (843) 879-0400

FIGURE 2 SITE MAP
116 BANYAN ST., LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE MAR 2009



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

FIGURE 3 UST SAMPLE LOCATIONS
 116 BANYAN ST., LAUREL BAY
 MCAS BEAUFORT SC

SCALE: GRAPHIC DWG DATE MAR 2009



Picture 1: 116 Banyan St. site.



Picture 2: UST 116Banyan during removal.

XIV. SUMMARY OF ANALYSIS RESULTS

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

CoC	116Banyan							
	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8
Benzene	ND							
Toluene	ND							
Ethylbenzene	0.0271	mg/kg						
Xylenes	0.00689	mg/kg						
Naphthalene	14.8	mg/kg						
Benzo (a) anthracene	0.230	mg/kg						
Benzo (b) fluoranthene	0.107	mg/kg						
Benzo (k) fluoranthene	ND							
Chrysene	0.220	mg/kg						
Dibenz (a, h) anthracene	ND							
TPH (EPA 3550)								

CoC	SB-9	SB-10	SB-11	SB-12	SB-13	SB-14	SB-15	SB-16
Benzene								
Toluene								
Ethylbenzene								
Xylenes								
Naphthalene								
Benzo (a) anthracene								
Benzo (b) fluoranthene								
Benzo (k) fluoranthene								
Chrysene								
Dibenz (a, h) anthracene								
TPH (EPA 3550)								

SUMMARY OF ANALYSIS RESULTS (cont'd)

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

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

XV. ANALYTICAL RESULTS

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

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

March 13, 2009 5:00:07PM

Client: EEG - Env. Enterprise Group (2449)
10179 Highway 78
Ladson, SC 29456
Attn: Tom McElwee

Work Order: NSB2283
Project Name: Laurel Bay Housing Project
Project Nbr: [none]
P/O Nbr: 08087
Date Received: 02/27/09

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
129 Banyan-2	NSB2283-01	02/23/09 12:35
133 Banyan	NSB2283-02	02/24/09 11:15
128 Banyan-1	NSB2283-03	02/25/09 08:40
128 Banyan-2	NSB2283-04	02/25/09 11:50
116 Banyan	NSB2283-05	02/26/09 11:20

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.

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:



Ken A. Hayes

Senior Project Manager

Client EEG - Env. Enterprise Group (2449)
 10179 Highway 78
 Ladson, SC 29456
 Attn Tom McElwee

Work Order: NSB2283
 Project Name: Laurel Bay Housing Project
 Project Number: [none]
 Received: 02/27/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSB2283-01 (129 Banyan-2 - Soil) Sampled: 02/23/09 12:35								
General Chemistry Parameters								
% Dry Solids	75.7		%	0.500	1	03/10/09 08:26	SW-846	9031168
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg dry	0.00183	1	03/02/09 19:30	SW846 8260B	9023910
Ethylbenzene	ND		mg/kg dry	0.00183	1	03/02/09 19:30	SW846 8260B	9023910
Naphthalene	ND		mg/kg dry	0.00457	1	03/02/09 19:30	SW846 8260B	9023910
Toluene	ND		mg/kg dry	0.00183	1	03/02/09 19:30	SW846 8260B	9023910
Xylenes, total	ND		mg/kg dry	0.00457	1	03/02/09 19:30	SW846 8260B	9023910
Surr: 1,2-Dichloroethane-d4 (41-150%)	105 %					03/02/09 19:30	SW846 8260B	9023910
Surr: Dibromofluoromethane (55-139%)	104 %					03/02/09 19:30	SW846 8260B	9023910
Surr: Toluene-d8 (57-148%)	101 %					03/02/09 19:30	SW846 8260B	9023910
Surr: 4-Bromofluorobenzene (58-150%)	109 %					03/02/09 19:30	SW846 8260B	9023910
Polyaromatic Hydrocarbons by EPA 8270C								
Acenaphthene	ND		mg/kg dry	0.0858	1	03/03/09 20:25	SW846 8270C	9023978
Acenaphthylene	ND		mg/kg dry	0.0858	1	03/03/09 20:25	SW846 8270C	9023978
Anthracene	ND		mg/kg dry	0.0858	1	03/03/09 20:25	SW846 8270C	9023978
Benzo (a) anthracene	ND		mg/kg dry	0.0858	1	03/03/09 20:25	SW846 8270C	9023978
Benzo (a) pyrene	ND		mg/kg dry	0.0858	1	03/03/09 20:25	SW846 8270C	9023978
Benzo (b) fluoranthene	ND		mg/kg dry	0.0858	1	03/03/09 20:25	SW846 8270C	9023978
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0858	1	03/03/09 20:25	SW846 8270C	9023978
Benzo (k) fluoranthene	ND		mg/kg dry	0.0858	1	03/03/09 20:25	SW846 8270C	9023978
Chrysene	ND		mg/kg dry	0.0858	1	03/03/09 20:25	SW846 8270C	9023978
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0858	1	03/03/09 20:25	SW846 8270C	9023978
Fluoranthene	ND		mg/kg dry	0.0858	1	03/03/09 20:25	SW846 8270C	9023978
Fluorene	ND		mg/kg dry	0.0858	1	03/03/09 20:25	SW846 8270C	9023978
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0858	1	03/03/09 20:25	SW846 8270C	9023978
Naphthalene	ND		mg/kg dry	0.0858	1	03/03/09 20:25	SW846 8270C	9023978
Phenanthrene	ND		mg/kg dry	0.0858	1	03/03/09 20:25	SW846 8270C	9023978
Pyrene	ND		mg/kg dry	0.0858	1	03/03/09 20:25	SW846 8270C	9023978
Surr: Terphenyl-d14 (26-128%)	60 %					03/03/09 20:25	SW846 8270C	9023978
Surr: 2-Fluorobiphenyl (19-109%)	65 %					03/03/09 20:25	SW846 8270C	9023978
Surr: Nitrobenzene-d5 (22-104%)	74 %					03/03/09 20:25	SW846 8270C	9023978

Client EEG - Env. Enterprise Group (2449)
 10179 Highway 78
 Ladson, SC 29456
 Attn Tom McElwee

Work Order: NSB2283
 Project Name: Laurel Bay Housing Project
 Project Number: [none]
 Received: 02/27/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSB2283-02 (133 Banyan - Soil) Sampled: 02/24/09 11:15								
General Chemistry Parameters								
% Dry Solids	82.0		%	0.500	1	03/10/09 08:26	SW-846	9031168
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzenc	ND		mg/kg dry	0.00213	1	03/02/09 20:00	SW846 8260B	9023910
Ethylbenzenc	ND		mg/kg dry	0.00213	1	03/02/09 20:00	SW846 8260B	9023910
Naphthalenc	ND		mg/kg dry	0.00532	1	03/02/09 20:00	SW846 8260B	9023910
Toluenc	ND		mg/kg dry	0.00213	1	03/02/09 20:00	SW846 8260B	9023910
Xylenes, total	ND		mg/kg dry	0.00532	1	03/02/09 20:00	SW846 8260B	9023910
Surr: 1,2-Dichloroethane-d4 (41-150%)	103 %					03/02/09 20:00	SW846 8260B	9023910
Surr: Dibromofluoromethane (55-139%)	106 %					03/02/09 20:00	SW846 8260B	9023910
Surr: Toluene-d8 (57-148%)	101 %					03/02/09 20:00	SW846 8260B	9023910
Surr: 4-Bromofluorobenzene (58-150%)	103 %					03/02/09 20:00	SW846 8260B	9023910
Polyaromatic Hydrocarbons by EPA 8270C								
Acenaphthene	ND		mg/kg dry	0.0808	1	03/03/09 20:47	SW846 8270C	9023978
Acenaphthylene	ND		mg/kg dry	0.0808	1	03/03/09 20:47	SW846 8270C	9023978
Anthracene	ND		mg/kg dry	0.0808	1	03/03/09 20:47	SW846 8270C	9023978
Benzo (a) anthracene	ND		mg/kg dry	0.0808	1	03/03/09 20:47	SW846 8270C	9023978
Benzo (a) pyrene	ND		mg/kg dry	0.0808	1	03/03/09 20:47	SW846 8270C	9023978
Benzo (b) fluoranthene	ND		mg/kg dry	0.0808	1	03/03/09 20:47	SW846 8270C	9023978
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0808	1	03/03/09 20:47	SW846 8270C	9023978
Benzo (k) fluoranthene	ND		mg/kg dry	0.0808	1	03/03/09 20:47	SW846 8270C	9023978
Chrysene	ND		mg/kg dry	0.0808	1	03/03/09 20:47	SW846 8270C	9023978
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0808	1	03/03/09 20:47	SW846 8270C	9023978
Fluoranthene	ND		mg/kg dry	0.0808	1	03/03/09 20:47	SW846 8270C	9023978
Fluorene	ND		mg/kg dry	0.0808	1	03/03/09 20:47	SW846 8270C	9023978
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0808	1	03/03/09 20:47	SW846 8270C	9023978
Naphthalene	ND		mg/kg dry	0.0808	1	03/03/09 20:47	SW846 8270C	9023978
Phenanthrene	ND		mg/kg dry	0.0808	1	03/03/09 20:47	SW846 8270C	9023978
Pyrene	ND		mg/kg dry	0.0808	1	03/03/09 20:47	SW846 8270C	9023978
Surr: Terphenyl-d14 (26-128%)	71 %					03/03/09 20:47	SW846 8270C	9023978
Surr: 2-Fluorobiphenyl (19-109%)	71 %					03/03/09 20:47	SW846 8270C	9023978
Surr: Nitrobenzene-d5 (22-104%)	82 %					03/03/09 20:47	SW846 8270C	9023978

Client EEG - Env. Enterprise Group (2449)
 10179 Highway 78
 Ladson, SC 29456
 Attn Tom McElwee

Work Order: NSB2283
 Project Name: Laurel Bay Housing Project
 Project Number: [none]
 Received: 02/27/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSB2283-03 (128 Banyan-1 - Soil) Sampled: 02/25/09 08:40								
General Chemistry Parameters								
% Dry Solids	67.1		%	0.500	1	03/10/09 08:26	SW-846	9031168
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg dry	0.00259	1	03/02/09 20:30	SW846 8260B	9023910
Ethylbenzene	0.0646		mg/kg dry	0.00259	1	03/02/09 20:30	SW846 8260B	9023910
Naphthalene	3.37		mg/kg dry	0.348	50	03/03/09 20:04	SW846 8260B	9023916
Toluene	0.00410		mg/kg dry	0.00259	1	03/02/09 20:30	SW846 8260B	9023910
Xylenes, total	0.0214		mg/kg dry	0.00647	1	03/02/09 20:30	SW846 8260B	9023910
Surr: 1,2-Dichloroethane-d4 (41-150%)	100 %					03/02/09 20:30	SW846 8260B	9023910
Surr: 1,2-Dichloroethane-d4 (41-150%)	101 %					03/03/09 20:04	SW846 8260B	9023916
Surr: Dibromofluoromethane (55-139%)	104 %					03/02/09 20:30	SW846 8260B	9023910
Surr: Dibromofluoromethane (55-139%)	103 %					03/03/09 20:04	SW846 8260B	9023916
Surr: Toluene-d8 (57-148%)	125 %					03/02/09 20:30	SW846 8260B	9023910
Surr: Toluene-d8 (57-148%)	99 %					03/03/09 20:04	SW846 8260B	9023916
Surr: 4-Bromofluorobenzene (58-150%)	165 %	ZX				03/02/09 20:30	SW846 8260B	9023910
Surr: 4-Bromofluorobenzene (58-150%)	107 %					03/03/09 20:04	SW846 8260B	9023916
Polyaromatic Hydrocarbons by EPA 8270C								
Acenaphthene	0.226		mg/kg dry	0.0998	1	03/03/09 21:09	SW846 8270C	9023978
Acenaphthylene	ND		mg/kg dry	0.0998	1	03/03/09 21:09	SW846 8270C	9023978
Anthracene	ND		mg/kg dry	0.0998	1	03/03/09 21:09	SW846 8270C	9023978
Benzo (a) anthracene	ND		mg/kg dry	0.0998	1	03/03/09 21:09	SW846 8270C	9023978
Benzo (a) pyrene	ND		mg/kg dry	0.0998	1	03/03/09 21:09	SW846 8270C	9023978
Benzo (b) fluoranthene	ND		mg/kg dry	0.0998	1	03/03/09 21:09	SW846 8270C	9023978
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0998	1	03/03/09 21:09	SW846 8270C	9023978
Benzo (k) fluoranthene	ND		mg/kg dry	0.0998	1	03/03/09 21:09	SW846 8270C	9023978
Chrysene	ND		mg/kg dry	0.0998	1	03/03/09 21:09	SW846 8270C	9023978
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0998	1	03/03/09 21:09	SW846 8270C	9023978
Fluoranthene	ND		mg/kg dry	0.0998	1	03/03/09 21:09	SW846 8270C	9023978
Fluorene	0.359		mg/kg dry	0.0998	1	03/03/09 21:09	SW846 8270C	9023978
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0998	1	03/03/09 21:09	SW846 8270C	9023978
Naphthalene	0.642		mg/kg dry	0.0998	1	03/03/09 21:09	SW846 8270C	9023978
Phenanthrene	0.911		mg/kg dry	0.0998	1	03/03/09 21:09	SW846 8270C	9023978
Pyrene	ND		mg/kg dry	0.0998	1	03/03/09 21:09	SW846 8270C	9023978
Surr: Terphenyl-d14 (26-128%)	54 %					03/03/09 21:09	SW846 8270C	9023978
Surr: 2-Fluorobiphenyl (19-109%)	41 %					03/03/09 21:09	SW846 8270C	9023978
Surr: Nitrobenzene-d5 (22-104%)	57 %					03/03/09 21:09	SW846 8270C	9023978

Client EEG - Env. Enterprise Group (2449)
 10179 Highway 78
 Ladson, SC 29456
 Attn Tom McElwee

Work Order: NSB2283
 Project Name: Laurel Bay Housing Project
 Project Number: [none]
 Received: 02/27/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSB2283-04 (128 Banyan-2 - Soil) Sampled: 02/25/09 11:50								
General Chemistry Parameters								
% Dry Solids	81.9		%	0.500	1	03/10/09 08:31	SW-846	9031167
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	0.00746		mg/kg dry	0.00176	1	03/02/09 21:00	SW846 8260B	9023910
Ethylbenzene	0.430		mg/kg dry	0.101	50	03/03/09 20:34	SW846 8260B	9023916
Naphthalene	4.30		mg/kg dry	0.253	50	03/03/09 20:34	SW846 8260B	9023916
Toluene	ND		mg/kg dry	0.00176	1	03/02/09 21:00	SW846 8260B	9023910
Xylenes, total	0.278		mg/kg dry	0.00439	1	03/02/09 21:00	SW846 8260B	9023910
Surr: 1,2-Dichloroethane-d4 (41-150%)	104 %					03/02/09 21:00	SW846 8260B	9023910
Surr: 1,2-Dichloroethane-d4 (41-150%)	100 %					03/03/09 20:34	SW846 8260B	9023916
Surr: Dibromofluoromethane (55-139%)	106 %					03/02/09 21:00	SW846 8260B	9023910
Surr: Dibromofluoromethane (55-139%)	100 %					03/03/09 20:34	SW846 8260B	9023916
Surr: Toluene-d8 (57-148%)	118 %					03/02/09 21:00	SW846 8260B	9023910
Surr: Toluene-d8 (57-148%)	98 %					03/03/09 20:34	SW846 8260B	9023916
Surr: 4-Bromofluorobenzene (58-150%)	156 %	ZX				03/02/09 21:00	SW846 8260B	9023910
Surr: 4-Bromofluorobenzene (58-150%)	100 %					03/03/09 20:34	SW846 8260B	9023916
Polyaromatic Hydrocarbons by EPA 8270C								
Acenaphthene	0.135		mg/kg dry	0.0808	1	03/03/09 21:31	SW846 8270C	9023978
Acenaphthylene	ND		mg/kg dry	0.0808	1	03/03/09 21:31	SW846 8270C	9023978
Anthracene	ND		mg/kg dry	0.0808	1	03/03/09 21:31	SW846 8270C	9023978
Benzo (a) anthracene	ND		mg/kg dry	0.0808	1	03/03/09 21:31	SW846 8270C	9023978
Benzo (a) pyrene	ND		mg/kg dry	0.0808	1	03/03/09 21:31	SW846 8270C	9023978
Benzo (b) fluoranthene	ND		mg/kg dry	0.0808	1	03/03/09 21:31	SW846 8270C	9023978
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0808	1	03/03/09 21:31	SW846 8270C	9023978
Benzo (k) fluoranthene	ND		mg/kg dry	0.0808	1	03/03/09 21:31	SW846 8270C	9023978
Chrysene	ND		mg/kg dry	0.0808	1	03/03/09 21:31	SW846 8270C	9023978
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0808	1	03/03/09 21:31	SW846 8270C	9023978
Fluoranthene	ND		mg/kg dry	0.0808	1	03/03/09 21:31	SW846 8270C	9023978
Fluorene	0.323		mg/kg dry	0.0808	1	03/03/09 21:31	SW846 8270C	9023978
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0808	1	03/03/09 21:31	SW846 8270C	9023978
Naphthalene	0.523		mg/kg dry	0.0808	1	03/03/09 21:31	SW846 8270C	9023978
Phenanthrene	0.637		mg/kg dry	0.0808	1	03/03/09 21:31	SW846 8270C	9023978
Pyrene	ND		mg/kg dry	0.0808	1	03/03/09 21:31	SW846 8270C	9023978
Surr: Terphenyl-d14 (26-128%)	72 %					03/03/09 21:31	SW846 8270C	9023978
Surr: 2-Fluorobiphenyl (19-109%)	71 %					03/03/09 21:31	SW846 8270C	9023978
Surr: Nitrobenzene-d5 (22-104%)	71 %					03/03/09 21:31	SW846 8270C	9023978

Client EEG - Env. Enterprise Group (2449)
 10179 Highway 78
 Ladson, SC 29456
 Attn Tom McElwec

Work Order: NSB2283
 Project Name: Laurel Bay Housing Project
 Project Number: [none]
 Received: 02/27/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSB2283-05 (116 Banyan - Soil) Sampled: 02/26/09 11:20								
General Chemistry Parameters								
% Dry Solids	76.4		%	0.500	1	03/10/09 08:31	SW-846	9031167
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg dry	0.00209	1	03/02/09 21:30	SW846 8260B	9023910
Ethylbenzene	0.0271		mg/kg dry	0.00230	1	03/03/09 18:32	SW846 8260B	9023916
Naphthalene	14.8		mg/kg dry	3.06	500	03/03/09 19:33	SW846 8260B	9023916
Toluene	ND		mg/kg dry	0.00209	1	03/02/09 21:30	SW846 8260B	9023910
Xylenes, total	0.00689		mg/kg dry	0.00524	1	03/02/09 21:30	SW846 8260B	9023910
Surr: 1,2-Dichloroethane-d4 (41-150%)	104 %					03/02/09 21:30	SW846 8260B	9023910
Surr: 1,2-Dichloroethane-d4 (41-150%)	102 %					03/03/09 18:32	SW846 8260B	9023916
Surr: 1,2-Dichloroethane-d4 (41-150%)	103 %					03/03/09 19:33	SW846 8260B	9023916
Surr: Dibromofluoromethane (55-139%)	105 %					03/02/09 21:30	SW846 8260B	9023910
Surr: Dibromofluoromethane (55-139%)	108 %					03/03/09 18:32	SW846 8260B	9023916
Surr: Dibromofluoromethane (55-139%)	102 %					03/03/09 19:33	SW846 8260B	9023916
Surr: Toluene-d8 (57-148%)	131 %					03/02/09 21:30	SW846 8260B	9023910
Surr: Toluene-d8 (57-148%)	105 %					03/03/09 18:32	SW846 8260B	9023916
Surr: Toluene-d8 (57-148%)	99 %					03/03/09 19:33	SW846 8260B	9023916
Surr: 4-Bromofluorobenzene (58-150%)	83 %					03/02/09 21:30	SW846 8260B	9023910
Surr: 4-Bromofluorobenzene (58-150%)	116 %					03/03/09 18:32	SW846 8260B	9023916
Surr: 4-Bromofluorobenzene (58-150%)	106 %					03/03/09 19:33	SW846 8260B	9023916
Polyaromatic Hydrocarbons by EPA 8270C								
Acenaphthene	0.137		mg/kg dry	0.0854	1	03/03/09 21:53	SW846 8270C	9023978
Acenaphthylene	ND		mg/kg dry	0.0854	1	03/03/09 21:53	SW846 8270C	9023978
Anthracene	0.177		mg/kg dry	0.0854	1	03/03/09 21:53	SW846 8270C	9023978
Benzo (a) anthracene	0.230		mg/kg dry	0.0854	1	03/03/09 21:53	SW846 8270C	9023978
Benzo (a) pyrene	ND		mg/kg dry	0.0854	1	03/03/09 21:53	SW846 8270C	9023978
Benzo (b) fluoranthene	0.107		mg/kg dry	0.0854	1	03/03/09 21:53	SW846 8270C	9023978
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0854	1	03/03/09 21:53	SW846 8270C	9023978
Benzo (k) fluoranthene	ND		mg/kg dry	0.0854	1	03/03/09 21:53	SW846 8270C	9023978
Chrysene	0.220		mg/kg dry	0.0854	1	03/03/09 21:53	SW846 8270C	9023978
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0854	1	03/03/09 21:53	SW846 8270C	9023978
Fluoranthene	0.777		mg/kg dry	0.0854	1	03/03/09 21:53	SW846 8270C	9023978
Fluorene	0.222		mg/kg dry	0.0854	1	03/03/09 21:53	SW846 8270C	9023978
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0854	1	03/03/09 21:53	SW846 8270C	9023978
Naphthalene	0.448		mg/kg dry	0.0854	1	03/03/09 21:53	SW846 8270C	9023978
Phenanthrene	0.860		mg/kg dry	0.0854	1	03/03/09 21:53	SW846 8270C	9023978
Pyrene	0.601		mg/kg dry	0.0854	1	03/03/09 21:53	SW846 8270C	9023978
Surr: Terphenyl-d14 (26-128%)	66 %					03/03/09 21:53	SW846 8270C	9023978
Surr: 2-Fluorobiphenyl (19-109%)	57 %					03/03/09 21:53	SW846 8270C	9023978
Surr: Nitrobenzene-d5 (22-104%)	63 %					03/03/09 21:53	SW846 8270C	9023978

Client EEG - Env. Enterprise Group (2449)
 10179 Highway 78
 Ladson, SC 29456
 Attn Tom McElwee

Work Order: NSB2283
 Project Name: Laurel Bay Housing Project
 Project Number: [none]
 Received: 02/27/09 08:00

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
Polyaromatic Hydrocarbons by EPA 8270C							
SW846 8270C	9023978	NSB2283-01	30.96	1.00	03/02/09 09:55	TEM	EPA 3550B
SW846 8270C	9023978	NSB2283-02	30.34	1.00	03/02/09 09:55	TEM	EPA 3550B
SW846 8270C	9023978	NSB2283-03	30.02	1.00	03/02/09 09:55	TEM	EPA 3550B
SW846 8270C	9023978	NSB2283-04	30.39	1.00	03/02/09 09:55	TEM	EPA 3550B
SW846 8270C	9023978	NSB2283-05	30.82	1.00	03/02/09 09:55	TEM	EPA 3550B
Selected Volatile Organic Compounds by EPA Method 8260B							
SW846 8260B	9023910	NSB2283-01	7.23	5.00	02/23/09 12:35	JRL	EPA 5035
SW846 8260B	9023910	NSB2283-02	5.73	5.00	02/24/09 11:15	JRL	EPA 5035
SW846 8260B	9023910	NSB2283-03	5.76	5.00	02/25/09 08:40	JRL	EPA 5035
SW846 8260B	9023916	NSB2283-03RE1	5.35	5.00	02/25/09 08:40	JRL	EPA 5035
SW846 8260B	9023910	NSB2283-04	6.95	5.00	02/25/09 11:50	JRL	EPA 5035
SW846 8260B	9023916	NSB2283-04RE1	6.03	5.00	02/25/09 11:50	JRL	EPA 5035
SW846 8260B	9023910	NSB2283-05	6.25	5.00	02/26/09 11:20	JRL	EPA 5035
SW846 8260B	9023910	NSB2283-05RE1	5.34	5.00	02/26/09 11:20	JRL	EPA 5035
SW846 8260B	9023916	NSB2283-05RE2	5.69	5.00	02/26/09 11:20	JRL	EPA 5035
SW846 8260B	9023916	NSB2283-05RE3	5.34	5.00	02/26/09 11:20	JRL	EPA 5035
SW846 8260B	9023916	NSB2283-05RE4	5.34	5.00	02/26/09 11:20	JRL	EPA 5035

Client EEG - Env. Enterprise Group (2449)
 10179 Highway 78
 Ladson, SC 29456
 Attn Tom McElwec

Work Order: NSB2283
 Project Name: Laurel Bay Housing Project
 Project Number: [none]
 Received: 02/27/09 08:00

PROJECT QUALITY CONTROL DATA
Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
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Selected Volatile Organic Compounds by EPA Method 8260B

9023910-BLK1

Benzene	<0.000670		mg/kg wet	9023910	9023910-BLK1	03/02/09 15:44
Ethylbenzene	<0.000670		mg/kg wet	9023910	9023910-BLK1	03/02/09 15:44
Naphthalene	<0.00151		mg/kg wet	9023910	9023910-BLK1	03/02/09 15:44
Toluene	<0.000670		mg/kg wet	9023910	9023910-BLK1	03/02/09 15:44
Xylenes, total	<0.00172		mg/kg wet	9023910	9023910-BLK1	03/02/09 15:44
Surrogate: 1,2-Dichloroethane-d4	108%			9023910	9023910-BLK1	03/02/09 15:44
Surrogate: Dibromofluoromethane	106%			9023910	9023910-BLK1	03/02/09 15:44
Surrogate: Toluene-d8	96%			9023910	9023910-BLK1	03/02/09 15:44
Surrogate: 4-Bromofluorobenzene	95%			9023910	9023910-BLK1	03/02/09 15:44

9023916-BLK1

Benzene	<0.000670		mg/kg wet	9023916	9023916-BLK1	03/03/09 16:30
Ethylbenzene	<0.000670		mg/kg wet	9023916	9023916-BLK1	03/03/09 16:30
Naphthalene	<0.00151		mg/kg wet	9023916	9023916-BLK1	03/03/09 16:30
Toluene	<0.000670		mg/kg wet	9023916	9023916-BLK1	03/03/09 16:30
Xylenes, total	<0.00172		mg/kg wet	9023916	9023916-BLK1	03/03/09 16:30
Surrogate: 1,2-Dichloroethane-d4	95%			9023916	9023916-BLK1	03/03/09 16:30
Surrogate: Dibromofluoromethane	105%			9023916	9023916-BLK1	03/03/09 16:30
Surrogate: Toluene-d8	96%			9023916	9023916-BLK1	03/03/09 16:30
Surrogate: 4-Bromofluorobenzene	106%			9023916	9023916-BLK1	03/03/09 16:30

Polyaromatic Hydrocarbons by EPA 8270C

9023978-BLK1

Acenaphthene	<0.0310		mg/kg wet	9023978	9023978-BLK1	03/03/09 18:34
Acenaphthylene	<0.0320		mg/kg wet	9023978	9023978-BLK1	03/03/09 18:34
Anthracene	<0.0330		mg/kg wet	9023978	9023978-BLK1	03/03/09 18:34
Benzo (a) anthracene	<0.0380		mg/kg wet	9023978	9023978-BLK1	03/03/09 18:34
Benzo (a) pyrene	<0.0290		mg/kg wet	9023978	9023978-BLK1	03/03/09 18:34
Benzo (b) fluoranthene	<0.0320		mg/kg wet	9023978	9023978-BLK1	03/03/09 18:34
Benzo (g,h,i) perylene	<0.0290		mg/kg wet	9023978	9023978-BLK1	03/03/09 18:34
Benzo (k) fluoranthene	<0.0290		mg/kg wet	9023978	9023978-BLK1	03/03/09 18:34
Chrysene	<0.0390		mg/kg wet	9023978	9023978-BLK1	03/03/09 18:34
Dibenz (a,h) anthracene	<0.0310		mg/kg wet	9023978	9023978-BLK1	03/03/09 18:34
Fluoranthene	<0.0340		mg/kg wet	9023978	9023978-BLK1	03/03/09 18:34
Fluorene	<0.0390		mg/kg wet	9023978	9023978-BLK1	03/03/09 18:34
Indeno (1,2,3-cd) pyrene	<0.0310		mg/kg wet	9023978	9023978-BLK1	03/03/09 18:34
Naphthalene	<0.0410		mg/kg wet	9023978	9023978-BLK1	03/03/09 18:34
Phenanthrene	<0.0340		mg/kg wet	9023978	9023978-BLK1	03/03/09 18:34
Pyrene	<0.0410		mg/kg wet	9023978	9023978-BLK1	03/03/09 18:34
1-Methylnaphthalene	<0.0320		mg/kg wet	9023978	9023978-BLK1	03/03/09 18:34
2-Methylnaphthalene	<0.0330		mg/kg wet	9023978	9023978-BLK1	03/03/09 18:34

Client EEG - Env. Enterprise Group (2449)
10179 Highway 78
Ladson, SC 29456
Attn Tom McElwee

Work Order: NSB2283
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 02/27/09 08:00

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8270C						
9023978-BLK1						
<i>Surrogate: Terphenyl-d14</i>	70%			9023978	9023978-BLK1	03/03/09 18:34
<i>Surrogate: 2-Fluorobiphenyl</i>	70%			9023978	9023978-BLK1	03/03/09 18:34
<i>Surrogate: Nitrobenzene-d5</i>	77%			9023978	9023978-BLK1	03/03/09 18:34

Client EEG - Env. Enterprise Group (2449)
10179 Highway 78
Ladson, SC 29456
Attn Tom McElwee

Work Order: NSB2283
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 02/27/09 08:00

PROJECT QUALITY CONTROL DATA
Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
General Chemistry Parameters									
9031167-DUP1									
% Dry Solids	81.9	81.7		%	0.2	20	9031167	NSB2283-04	03/10/09 08:31
9031168-DUP1									
% Dry Solids	87.4	88.0		%	0.7	20	9031168	NSB2220-01	03/10/09 08:26

Client EEG - Env. Enterprise Group (2449)
 10179 Highway 78
 Ladson, SC 29456
 Attn Tom McElwee

Work Order: NSB2283
 Project Name: Laurel Bay Housing Project
 Project Number: [none]
 Received: 02/27/09 08:00

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Selected Volatile Organic Compounds by EPA Method 8260B								
9023910-BS1								
Benzene	50.0	59.9		ug/kg	120%	76 - 130	9023910	03/02/09 13:44
Ethylbenzene	50.0	55.4		ug/kg	111%	80 - 128	9023910	03/02/09 13:44
Naphthalene	50.0	58.8		ug/kg	118%	63 - 144	9023910	03/02/09 13:44
Toluene	50.0	54.2		ug/kg	108%	80 - 125	9023910	03/02/09 13:44
Xylenes, total	150	168		ug/kg	112%	79 - 130	9023910	03/02/09 13:44
Surrogate: 1,2-Dichloroethane-d4	50.0	53.4			107%	41 - 150	9023910	03/02/09 13:44
Surrogate: Dibromofluoromethane	50.0	54.1			108%	55 - 139	9023910	03/02/09 13:44
Surrogate: Toluene-d8	50.0	49.3			99%	57 - 148	9023910	03/02/09 13:44
Surrogate: 4-Bromofluorobenzene	50.0	49.3			99%	58 - 150	9023910	03/02/09 13:44
9023916-BS1								
Benzene	50.0	50.1	M2	ug/kg	100%	76 - 130	9023916	03/03/09 14:28
Ethylbenzene	50.0	47.1	M1	ug/kg	94%	80 - 128	9023916	03/03/09 14:28
Naphthalene	50.0	50.2	M2	ug/kg	100%	63 - 144	9023916	03/03/09 14:28
Toluene	50.0	43.2	M2	ug/kg	86%	80 - 125	9023916	03/03/09 14:28
Xylenes, total	150	134		ug/kg	89%	79 - 130	9023916	03/03/09 14:28
Surrogate: 1,2-Dichloroethane-d4	50.0	50.1			100%	41 - 150	9023916	03/03/09 14:28
Surrogate: Dibromofluoromethane	50.0	53.9			108%	55 - 139	9023916	03/03/09 14:28
Surrogate: Toluene-d8	50.0	48.3			97%	57 - 148	9023916	03/03/09 14:28
Surrogate: 4-Bromofluorobenzene	50.0	48.2			96%	58 - 150	9023916	03/03/09 14:28
Polyaromatic Hydrocarbons by EPA 8270C								
9023978-BS1								
Acenaphthene	1.67	1.29		mg/kg wet	77%	52 - 106	9023978	03/03/09 18:56
Acenaphthylene	1.67	1.41		mg/kg wet	84%	53 - 109	9023978	03/03/09 18:56
Anthracene	1.67	1.64		mg/kg wet	99%	54 - 124	9023978	03/03/09 18:56
Benzo (a) anthracene	1.67	1.44		mg/kg wet	86%	53 - 111	9023978	03/03/09 18:56
Benzo (a) pyrene	1.67	1.51		mg/kg wet	91%	52 - 122	9023978	03/03/09 18:56
Benzo (b) fluoranthene	1.67	1.54		mg/kg wet	92%	48 - 115	9023978	03/03/09 18:56
Benzo (g,h,i) perylene	1.67	1.39		mg/kg wet	83%	46 - 114	9023978	03/03/09 18:56
Benzo (k) fluoranthene	1.67	1.28		mg/kg wet	77%	41 - 121	9023978	03/03/09 18:56
Chrysene	1.67	1.38		mg/kg wet	83%	49 - 113	9023978	03/03/09 18:56
Dibenz (a,h) anthracene	1.67	1.39		mg/kg wet	84%	47 - 117	9023978	03/03/09 18:56
Fluoranthene	1.67	1.49		mg/kg wet	89%	52 - 113	9023978	03/03/09 18:56
Fluorene	1.67	1.35		mg/kg wet	81%	54 - 107	9023978	03/03/09 18:56
Indeno (1,2,3-cd) pyrene	1.67	1.40		mg/kg wet	84%	47 - 115	9023978	03/03/09 18:56
Naphthalene	1.67	1.19		mg/kg wet	72%	34 - 107	9023978	03/03/09 18:56
Phenanthrene	1.67	1.41		mg/kg wet	84%	53 - 108	9023978	03/03/09 18:56
Pyrene	1.67	1.46		mg/kg wet	87%	54 - 113	9023978	03/03/09 18:56
1-Methylnaphthalene	1.67	1.18		mg/kg wet	71%	36 - 100	9023978	03/03/09 18:56
2-Methylnaphthalene	1.67	1.17		mg/kg wet	70%	42 - 112	9023978	03/03/09 18:56

Client EEG - Env. Enterprise Group (2449)
10179 Highway 78
Ladson, SC 29456
Attn Tom McElwee

Work Order: NSB2283
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 02/27/09 08:00

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8270C								
9023978-BS1								
<i>Surrogate: Terphenyl-d14</i>	1.67	1.09			66%	26 - 128	9023978	03/03/09 18:56
<i>Surrogate: 2-Fluorobiphenyl</i>	1.67	1.05			63%	19 - 109	9023978	03/03/09 18:56
<i>Surrogate: Nitrobenzene-d5</i>	1.67	1.09			65%	22 - 104	9023978	03/03/09 18:56

Client EEG - Env. Enterprise Group (2449)
 10179 Highway 78
 Ladson, SC 29456
 Attn Tom McElwee

Work Order: NSB2283
 Project Name: Laurel Bay Housing Project
 Project Number: [none]
 Received: 02/27/09 08:00

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
Selected Volatile Organic Compounds by EPA Method 8260B												
9023910-BSD1												
Benzene		59.4		ug/kg	50.0	119%	76 - 130	0.8	43	9023910		03/02/09 14:14
Ethylbenzene		55.2		ug/kg	50.0	110%	80 - 128	0.4	48	9023910		03/02/09 14:14
Naphthalene		58.0		ug/kg	50.0	116%	63 - 144	1	50	9023910		03/02/09 14:14
Toluene		54.1		ug/kg	50.0	108%	80 - 125	0.2	44	9023910		03/02/09 14:14
Xylenes, total		167		ug/kg	150	111%	79 - 130	0.3	48	9023910		03/02/09 14:14
Surrogate: 1,2-Dichloroethane-d4		53.1		ug/kg	50.0	106%	41 - 150			9023910		03/02/09 14:14
Surrogate: Dibromofluoromethane		54.1		ug/kg	50.0	108%	55 - 139			9023910		03/02/09 14:14
Surrogate: Toluene-d8		49.4		ug/kg	50.0	99%	57 - 148			9023910		03/02/09 14:14
Surrogate: 4-Bromofluorobenzene		48.6		ug/kg	50.0	97%	58 - 150			9023910		03/02/09 14:14
9023916-BSD1												
Benzene		46.6		ug/kg	50.0	93%	76 - 130	7	43	9023916		03/03/09 14:59
Ethylbenzene		44.8		ug/kg	50.0	90%	80 - 128	5	48	9023916		03/03/09 14:59
Naphthalene		48.2		ug/kg	50.0	96%	63 - 144	4	50	9023916		03/03/09 14:59
Toluene		41.6		ug/kg	50.0	83%	80 - 125	4	44	9023916		03/03/09 14:59
Xylenes, total		129		ug/kg	150	86%	79 - 130	4	48	9023916		03/03/09 14:59
Surrogate: 1,2-Dichloroethane-d4		48.2		ug/kg	50.0	96%	41 - 150			9023916		03/03/09 14:59
Surrogate: Dibromofluoromethane		53.0		ug/kg	50.0	106%	55 - 139			9023916		03/03/09 14:59
Surrogate: Toluene-d8		48.8		ug/kg	50.0	98%	57 - 148			9023916		03/03/09 14:59
Surrogate: 4-Bromofluorobenzene		48.7		ug/kg	50.0	97%	58 - 150			9023916		03/03/09 14:59
Polyaromatic Hydrocarbons by EPA 8270C												
9023978-BSD1												
Acenaphthene		1.48		mg/kg wet	1.67	89%	52 - 106	14	33	9023978		03/03/09 19:18
Acenaphthylene		1.62		mg/kg wet	1.67	97%	53 - 109	14	38	9023978		03/03/09 19:18
Anthracene		1.86		mg/kg wet	1.67	112%	54 - 124	12	32	9023978		03/03/09 19:18
Benzo (a) anthracene		1.64		mg/kg wet	1.67	98%	53 - 111	13	26	9023978		03/03/09 19:18
Benzo (a) pyrene		1.74		mg/kg wet	1.67	104%	52 - 122	14	31	9023978		03/03/09 19:18
Benzo (b) fluoranthene		1.80		mg/kg wet	1.67	108%	48 - 115	16	37	9023978		03/03/09 19:18
Benzo (g,h,i) perylene		1.57		mg/kg wet	1.67	94%	46 - 114	12	28	9023978		03/03/09 19:18
Benzo (k) fluoranthene		1.44		mg/kg wet	1.67	86%	41 - 121	11	35	9023978		03/03/09 19:18
Chrysene		1.57		mg/kg wet	1.67	94%	49 - 113	13	31	9023978		03/03/09 19:18
Dibenz (a,h) anthracene		1.57		mg/kg wet	1.67	94%	47 - 117	12	32	9023978		03/03/09 19:18
Fluoranthene		1.63		mg/kg wet	1.67	98%	52 - 113	9	36	9023978		03/03/09 19:18
Fluorene		1.57		mg/kg wet	1.67	94%	54 - 107	15	35	9023978		03/03/09 19:18
Indeno (1,2,3-cd) pyrene		1.60		mg/kg wet	1.67	96%	47 - 115	14	28	9023978		03/03/09 19:18
Naphthalene		1.33		mg/kg wet	1.67	80%	34 - 107	11	34	9023978		03/03/09 19:18
Phenanthrene		1.59		mg/kg wet	1.67	96%	53 - 108	12	33	9023978		03/03/09 19:18
Pyrene		1.71		mg/kg wet	1.67	103%	54 - 113	16	36	9023978		03/03/09 19:18
1-Methylnaphthalene		1.30		mg/kg wet	1.67	78%	36 - 100	10	34	9023978		03/03/09 19:18
2-Methylnaphthalene		1.29		mg/kg wet	1.67	77%	42 - 112	10	33	9023978		03/03/09 19:18

Client EEG - Env. Enterprise Group (2449)
 10179 Highway 78
 Ladson, SC 29456
 Attn Tom McElwee

Work Order: NSB2283
 Project Name: Laurel Bay Housing Project
 Project Number: [none]
 Received: 02/27/09 08:00

PROJECT QUALITY CONTROL DATA

LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD Limit	Batch	Sample Duplicated	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8270C											
9023978-BSD1											
<i>Surrogate: Terphenyl-d14</i>		1.24		mg/kg wet	1.67	74%	26 - 128		9023978		03/03/09 19:18
<i>Surrogate: 2-Fluorobiphenyl</i>		1.19		mg/kg wet	1.67	72%	19 - 109		9023978		03/03/09 19:18
<i>Surrogate: Nitrobenzene-d5</i>		1.23		mg/kg wet	1.67	74%	22 - 104		9023978		03/03/09 19:18

Client EEG - Env. Enterprise Group (2449)
 10179 Highway 78
 Ladson, SC 29456
 Attn Tom McElwee

Work Order: NSB2283
 Project Name: Laurel Bay Housing Project
 Project Number: [none]
 Received: 02/27/09 08:00

PROJECT QUALITY CONTROL DATA
Matrix Spike

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Selected Volatile Organic Compounds by EPA Method 8260B										
9023910-MS1										
Benzene	ND	3.39		mg/kg dry	3.06	111%	33 - 146	9023910	NSB2283-05RE 1	03/02/09 22:30
Ethylbenzene	0.264	3.42		mg/kg dry	3.06	103%	16 - 160	9023910	NSB2283-05RE 1	03/02/09 22:30
Naphthalene	13.4	14.2		mg/kg dry	3.06	26%	10 - 151	9023910	NSB2283-05RE 1	03/02/09 22:30
Toluene	ND	3.03		mg/kg dry	3.06	99%	30 - 145	9023910	NSB2283-05RE 1	03/02/09 22:30
Xylenes, total	ND	9.57		mg/kg dry	9.19	104%	16 - 159	9023910	NSB2283-05RE 1	03/02/09 22:30
<i>Surrogate: 1,2-Dichloroethane-d4</i>		51.4		ug/kg	50.0	103%	41 - 150	9023910	NSB2283-05RE 1	03/02/09 22:30
<i>Surrogate: Dibromofluoromethane</i>		51.6		ug/kg	50.0	103%	55 - 139	9023910	NSB2283-05RE 1	03/02/09 22:30
<i>Surrogate: Toluene-d8</i>		49.1		ug/kg	50.0	98%	57 - 148	9023910	NSB2283-05RE 1	03/02/09 22:30
<i>Surrogate: 4-Bromofluorobenzene</i>		55.3		ug/kg	50.0	111%	58 - 150	9023910	NSB2283-05RE 1	03/02/09 22:30
Polyaromatic Hydrocarbons by EPA 8270C										
9023978-MS1										
Acenaphthene	0.135	1.64		mg/kg dry	1.99	75%	28 - 117	9023978	NSB2283-04	03/03/09 19:40
Acenaphthylene	ND	1.65		mg/kg dry	1.99	83%	33 - 113	9023978	NSB2283-04	03/03/09 19:40
Anthracene	0.0534	1.87		mg/kg dry	1.99	91%	31 - 131	9023978	NSB2283-04	03/03/09 19:40
Benzo (a) anthracene	ND	1.72		mg/kg dry	1.99	87%	29 - 124	9023978	NSB2283-04	03/03/09 19:40
Benzo (a) pyrene	ND	1.78		mg/kg dry	1.99	89%	30 - 127	9023978	NSB2283-04	03/03/09 19:40
Benzo (b) fluoranthene	ND	1.80		mg/kg dry	1.99	90%	26 - 128	9023978	NSB2283-04	03/03/09 19:40
Benzo (g,h,i) perylene	ND	1.66		mg/kg dry	1.99	83%	21 - 122	9023978	NSB2283-04	03/03/09 19:40
Benzo (k) fluoranthene	ND	1.63		mg/kg dry	1.99	82%	20 - 130	9023978	NSB2283-04	03/03/09 19:40
Chrysene	ND	1.66		mg/kg dry	1.99	83%	30 - 119	9023978	NSB2283-04	03/03/09 19:40
Dibenz (a,h) anthracene	ND	1.68		mg/kg dry	1.99	84%	27 - 122	9023978	NSB2283-04	03/03/09 19:40
Fluoranthene	ND	1.75		mg/kg dry	1.99	88%	23 - 132	9023978	NSB2283-04	03/03/09 19:40
Fluorene	0.323	1.88		mg/kg dry	1.99	78%	38 - 110	9023978	NSB2283-04	03/03/09 19:40
Indeno (1,2,3-cd) pyrene	ND	1.68		mg/kg dry	1.99	84%	24 - 122	9023978	NSB2283-04	03/03/09 19:40
Naphthalene	0.523	1.89		mg/kg dry	1.99	69%	14 - 117	9023978	NSB2283-04	03/03/09 19:40
Phenanthrene	0.637	2.26		mg/kg dry	1.99	82%	21 - 130	9023978	NSB2283-04	03/03/09 19:40
Pyrene	ND	1.86		mg/kg dry	1.99	94%	24 - 133	9023978	NSB2283-04	03/03/09 19:40
1-Methylnaphthalene	1.66	2.92		mg/kg dry	1.99	63%	10 - 121	9023978	NSB2283-04	03/03/09 19:40
2-Methylnaphthalene	2.48	3.63		mg/kg dry	1.99	58%	26 - 116	9023978	NSB2283-04	03/03/09 19:40
<i>Surrogate: Terphenyl-d14</i>		1.34		mg/kg dry	1.99	67%	26 - 128	9023978	NSB2283-04	03/03/09 19:40
<i>Surrogate: 2-Fluorobiphenyl</i>		1.20		mg/kg dry	1.99	60%	19 - 109	9023978	NSB2283-04	03/03/09 19:40
<i>Surrogate: Nitrobenzene-d5</i>		1.24		mg/kg dry	1.99	62%	22 - 104	9023978	NSB2283-04	03/03/09 19:40

Client EEG - Env. Enterprise Group (2449)
10179 Highway 78
Ladson, SC 29456
Attn Tom McElwee

Work Order: NSB2283
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 02/27/09 08:00

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
Polyaromatic Hydrocarbons by EPA 8270C										

Client EEG - Env. Enterprise Group (2449)
 10179 Highway 78
 Ladson, SC 29456
 Attn Tom McElwee

Work Order: NSB2283
 Project Name: Laurel Bay Housing Project
 Project Number: [none]
 Received: 02/27/09 08:00

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
Selected Volatile Organic Compounds by EPA Method 8260B												
9023910-MSD1												
Benzene	ND	3.56		mg/kg dry	3.06	116%	33 - 146	5	43	9023910	NSB2283-05RE 1	03/02/09 23:00
Ethylbenzene	0.264	3.50		mg/kg dry	3.06	106%	16 - 160	2	48	9023910	NSB2283-05RE 1	03/02/09 23:00
Naphthalene	13.4	14.3		mg/kg dry	3.06	30%	10 - 151	0.9	50	9023910	NSB2283-05RE 1	03/02/09 23:00
Toluene	ND	3.10		mg/kg dry	3.06	101%	30 - 145	2	44	9023910	NSB2283-05RE 1	03/02/09 23:00
Xylenes, total	ND	9.77		mg/kg dry	9.19	106%	16 - 159	2	48	9023910	NSB2283-05RE 1	03/02/09 23:00
Surrogate: 1,2-Dichloroethane-d4		50.9		ug/kg	50.0	102%	41 - 150			9023910	NSB2283-05RE 1	03/02/09 23:00
Surrogate: Dibromofluoromethane		51.7		ug/kg	50.0	103%	55 - 139			9023910	NSB2283-05RE 1	03/02/09 23:00
Surrogate: Toluene-d8		48.8		ug/kg	50.0	98%	57 - 148			9023910	NSB2283-05RE 1	03/02/09 23:00
Surrogate: 4-Bromofluorobenzene		55.5		ug/kg	50.0	111%	58 - 150			9023910	NSB2283-05RE 1	03/02/09 23:00
Polyaromatic Hydrocarbons by EPA 8270C												
9023978-MSD1												
Acenaphthene	0.135	1.94		mg/kg dry	2.00	90%	28 - 117	17	33	9023978	NSB2283-04	03/03/09 20:03
Acenaphthylene	ND	1.99		mg/kg dry	2.00	99%	33 - 113	19	38	9023978	NSB2283-04	03/03/09 20:03
Anthracene	0.0534	2.26		mg/kg dry	2.00	110%	31 - 131	19	32	9023978	NSB2283-04	03/03/09 20:03
Benzo (a) anthracene	ND	2.05		mg/kg dry	2.00	102%	29 - 124	17	26	9023978	NSB2283-04	03/03/09 20:03
Benzo (a) pyrene	ND	2.15		mg/kg dry	2.00	107%	30 - 127	19	31	9023978	NSB2283-04	03/03/09 20:03
Benzo (b) fluoranthene	ND	2.13		mg/kg dry	2.00	106%	26 - 128	17	37	9023978	NSB2283-04	03/03/09 20:03
Benzo (g,h,i) perylene	ND	1.97		mg/kg dry	2.00	98%	21 - 122	17	28	9023978	NSB2283-04	03/03/09 20:03
Benzo (k) fluoranthene	ND	1.96		mg/kg dry	2.00	98%	20 - 130	18	35	9023978	NSB2283-04	03/03/09 20:03
Chrysene	ND	1.98		mg/kg dry	2.00	99%	30 - 119	18	31	9023978	NSB2283-04	03/03/09 20:03
Dibenz (a,h) anthracene	ND	1.97		mg/kg dry	2.00	98%	27 - 122	16	32	9023978	NSB2283-04	03/03/09 20:03
Fluoranthene	ND	2.10		mg/kg dry	2.00	105%	23 - 132	18	36	9023978	NSB2283-04	03/03/09 20:03
Fluorene	0.323	2.23		mg/kg dry	2.00	95%	38 - 110	17	35	9023978	NSB2283-04	03/03/09 20:03
Indeno (1,2,3-cd) pyrene	ND	1.98		mg/kg dry	2.00	99%	24 - 122	17	28	9023978	NSB2283-04	03/03/09 20:03
Naphthalene	0.523	2.17		mg/kg dry	2.00	82%	14 - 117	14	34	9023978	NSB2283-04	03/03/09 20:03
Phenanthrene	0.637	2.71		mg/kg dry	2.00	103%	21 - 130	18	33	9023978	NSB2283-04	03/03/09 20:03
Pyrene	ND	2.21		mg/kg dry	2.00	110%	24 - 133	17	36	9023978	NSB2283-04	03/03/09 20:03
1-Methylnaphthalene	1.66	3.44		mg/kg dry	2.00	88%	10 - 121	16	34	9023978	NSB2283-04	03/03/09 20:03
2-Methylnaphthalene	2.48	4.33		mg/kg dry	2.00	93%	26 - 116	18	33	9023978	NSB2283-04	03/03/09 20:03
Surrogate: Terphenyl-d14		1.69		mg/kg dry	2.00	84%	26 - 128			9023978	NSB2283-04	03/03/09 20:03
Surrogate: 2-Fluorobiphenyl		1.52		mg/kg dry	2.00	76%	19 - 109			9023978	NSB2283-04	03/03/09 20:03
Surrogate: Nitrobenzene-d5		1.55		mg/kg dry	2.00	77%	22 - 104			9023978	NSB2283-04	03/03/09 20:03

Client EEG - Env. Enterprise Group (2449)
10179 Highway 78
Ladson, SC 29456
Attn Tom McElwee

Work Order: NSB2283
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 02/27/09 08:00

CERTIFICATION SUMMARY

TestAmerica Nashville

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

Client EEG - Env. Enterprise Group (2449)
10179 Highway 78
Ladson, SC 29456
Attn Tom McElwee

Work Order: NSB2283
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 02/27/09 08:00

DATA QUALIFIERS AND DEFINITIONS

M1 The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M2 The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
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

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 116Banyan, 116 Banyan St, 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

SIZE (GAL)

Steel

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.

T. L. McQueen , 3/31/09
(Name) (Date)

Appendix C
Laboratory Analytical Report - Groundwater

Volatile Organic Compounds by GC/MS

Client: AECOM - Resolution Consultants	Laboratory ID: OG18009-011
Description: BEALB116TW01WG20130718	Matrix: Aqueous
Date Sampled: 07/18/2013 1310	
Date Received: 07/19/2013	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/27/2013 0008	RGB		25963

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
Benzene	71-43-2	8260B	ND		0.50	0.25	0.027	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	0.25	0.17	ug/L	1
Naphthalene	91-20-3	8260B	1.4		0.50	0.25	0.12	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	0.25	0.17	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	0.25	0.17	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-120
Toluene-d8		108	85-120
Bromofluorobenzene		98	75-120
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

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

Level 1 Report v2.1

Semivolatile Organic Compounds by GC/MS

Client: AECOM - Resolution Consultants	Laboratory ID: OG18009-011
Description: BEALB116TW01WG20130718	Matrix: Aqueous
Date Sampled: 07/18/2013 1310	
Date Received: 07/19/2013	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	07/22/2013 1552	JRG	07/19/2013 1544	25460

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
Benzo(a)anthracene	56-55-3	8270D	ND		0.21	0.10	0.085	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	ND		0.21	0.10	0.091	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	ND		0.21	0.10	0.096	ug/L	1
Chrysene	218-01-9	8270D	ND		0.21	0.10	0.056	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		0.21	0.10	0.060	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Fluorobiphenyl		78	50-110
Nitrobenzene-d5		74	40-110
Terphenyl-d14		74	50-135

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

Level 1 Report v2.1

Appendix D
Regulatory Correspondence



C. Earl Hunter, Commissioner

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

May 12, 2009

Commanding Officer
ATTN: S-4 NREAO (Craig Ehde)
MCAS
PO Box 55001
Beaufort, SC 29904-5001

Re: MCAS – Laurel Bay Housing – 116 Banyan St.
Site ID # 04173
UST Closure Report received 24 April 2009
Beaufort County

Dear Mr. Ehde:

The purpose of this letter is to verify a release of fuel oil at the referenced residence. According to information received by the Department, the source of the release is from past onsite use of fuel oil USTs. To date, initial activities by the facility have included tank removal and soil sampling. Based on the information contained in the closure report, a potential violation of the South Carolina Pollution Control Act has occurred in that there has been an unauthorized release of petroleum to the environment.

Additional assessment activities are required for this site. Specifically the Department requests that a groundwater sample be collected from this site. Please note, the Department approved a groundwater sampling proposal for Laurel Bay submitted by MCAS under separate cover dated 16 June 2008.

Should you have any questions, please contact me at 803-896-4179 or cookejt@dhec.sc.gov.

Sincerely,

Jan T. Cooke, Hydrogeologist
AST Petroleum Restoration & Site Environmental Investigations Section
Division of Site Assessment, Remediation & Revitalization
Bureau of Land and Waste Management

cc: Region 8 District EQC



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

August 6, 2015

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

RE: Approval Response to Comments and Concurrence with Final Initial Groundwater Investigation Report-July 2013
Laurel Bay Military Housing Area Multiple Properties
Dated June 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 addresses attached. 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 10 stated addresses. For the remaining 25 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 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)

Attachment to: Petrus to Drawdy
 Subject: Draft Final Initial Groundwater Investigation Report-July 2013
 Specific Property Recommendations
 Dated August 6, 2015

Draft Final Initial Groundwater Investigation Report for (35 addresses/38 tanks)

Permanent Monitoring Well Investigation recommendation (10 addresses/11 tanks)	
119 Banyan	156 Laurel Bay
128 Banyan	1033 Foxglove
132 Banyan	1055 Gardenia
135 Birch	1059 Gardenia
148 Laurel Bay	1168 Jasmine
No Further Action recommendation (25 addresses/27 tanks):	
115 Banyan	386 Acorn
116 Banyan	395 Acorn
120 Banyan	399 Acorn
124 Banyan	1021 Foxglove
125 Banyan	1027 Foxglove
136 Birch	1030 Foxglove
140 Laurel Bay	1032 Foxglove
144 Laurel Bay	1053 Gardenia
152 Laurel Bay	1058 Gardenia
160 Cypress	1061 Gardenia
263 Beech	1166 Jasmine
269 Birch	1169 Jasmine
295 Birch	