SUMMARY REPORT
108 IRIS LANE (FORMERLY 1101 IRIS LANE)
LAUREL BAY MILITARY HOUSING AREA
MARINE CORPS AIR STATION BEAUFORT
BEAUFORT, SC

Revision: 0
Prepared for:

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

and

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

JUNE 2021

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Prepared by:

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

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

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Appendices

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 108 Iris Lane (Formerly 1101 Iris Lane). 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 108 Iris Lane (Formerly 1101 Iris Lane). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 1101 Iris Lane* (MCAS Beaufort, 2008) and *SCDHEC UST Assessment Report – 1101 Iris Lane* (MCAS Beaufort, 2011). The UST Assessment Report is provided in Appendix B. Details regarding the IGWA sampling activities at this site are provided in the *Initial Groundwater Investigation Report – November and December 2015* (Resolution Consultants, 2016). The laboratory report that includes the pertinent IGWA analytical results for this site is presented in Appendix C.

2.1 UST Removal and Soil Sampling

In September 2007 and March 2011, two 280 gallon heating oil USTs were removed at 108 Iris Lane (Formerly 1101 Iris Lane). Tank 1 was removed on September 26, 2007 from the front landscaped bed area, adjacent to the driveway. Tank 2 was removed on March 24, 2011 from

the eastern portion of the front landscaped bed area. The former UST locations are indicated in the figures of the UST Assessment Reports (Appendix B). The USTs were removed, cleaned, and shipped offsite for recycling. There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of each UST removal. According to the UST Assessment Reports (Appendix B), the depths to the bases of the USTs were 4'4" (Tank 1) and 5' (Tank 2) bgs and a single soil sample was collected for each at that depth. An additional soil sample was collected at the side of the excavation for Tank 1 at a depth of 3'1" bgs. The samples were collected from the fill port side of the former USTs to represent a worst case scenario.

Following UST removal, a soil sample was collected from the base of each excavation and from the side of the excavation of Tank 1 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 108 Iris Lane (Formerly 1101 Iris Lane) during the removal of Tank 1 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. The soil results collected from 108 Iris Lane (Formerly 1101 Iris Lane) during the removal of Tank 2 were greater than the SCDHEC RBSLs, which indicated further investigation was required. In a letter dated July 1, 2015, SCDHEC requested an IGWA for 108 Iris Lane (Formerly 1101 Iris Lane) to determine if the groundwater was impacted by petroleum COPCs. SCDHEC's request letter is provided in Appendix D.

2.3 Groundwater Sampling

On December 2, 2015, a temporary monitoring well was installed at 108 Iris Lane (Formerly 1101 Iris Lane), 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 (Tank 2). The former UST locations are indicated in the figures of the UST Assessment Reports (Appendix B). Further details are provided in the *Initial Groundwater Investigation Report – November and December 2015* (Resolution Consultants, 2016).

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

2.4 Groundwater Analytical Results

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

The groundwater results collected from 108 Iris Lane (Formerly 1101 Iris Lane) 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 USTs at concentrations that present a potential risk to human health and the environment.

3.0 PROPERTY STATUS

Based on the analytical results for soil (Tank 1) and groundwater (Tank 2), SCDHEC made the determination that NFA was required for 108 Iris Lane (Formerly 1101 Iris Lane). This NFA determination was obtained in a letter dated August 13, 2008 (Tank 1) and June 8, 2016 (Tank 2). SCDHEC's NFA letters are provided in Appendix D.

4.0 REFERENCES

Marine Corps Air Station Beaufort, 2008. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 1101 Iris Lane, Laurel Bay Military Housing Area*, January 2008.

Marine Corps Air Station Beaufort, 2011. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 1101 Iris Lane, Laurel Bay Military Housing Area*, June 2011.

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

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

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

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

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

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

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

Tables

Table 1
Laboratory Analytical Results - Soil
108 Iris Lane (Formerly 1101 Iris Lane)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs [1]	Results Samples Collected 09/26/07 and 03/24/11		
		1101 Iris Bottom 01 09/26/07	1101 Iris Side 02 09/26/07	1101 Iris 03/24/11
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)				
Benzene	0.003	ND	ND	ND
Ethylbenzene	1.15	ND	ND	**0.0617**
Naphthalene	0.036	**0.000358**	ND	**1.02**
Toluene	0.627	ND	ND	**0.00104**
Xylenes, Total	13.01	ND	ND	**0.270**
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (mg/kg)				
Benzo(a)anthracene	0.66	**0.0397**	**0.0867**	ND
Benzo(b)fluoranthene	0.66	**0.0374**	**0.0719**	ND
Benzo(k)fluoranthene	0.66	**0.0203**	**0.0300**	ND
Chrysene	0.66	**0.037**	**0.0905**	ND
Dibenz(a,h)anthracene	0.66	ND	ND	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).

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
108 Iris Lane (Formerly 1101 Iris Lane)
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 12/02/15
Volatile Organic Compounds Analyzed by EPA Method 8260B (µg/L)			
Benzene	5	16.24	ND
Ethylbenzene	700	45.95	ND
Naphthalene	25	29.33	**0.16**
Toluene	1000	105,445	**1.0**
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 $1x10^{-6}$, 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

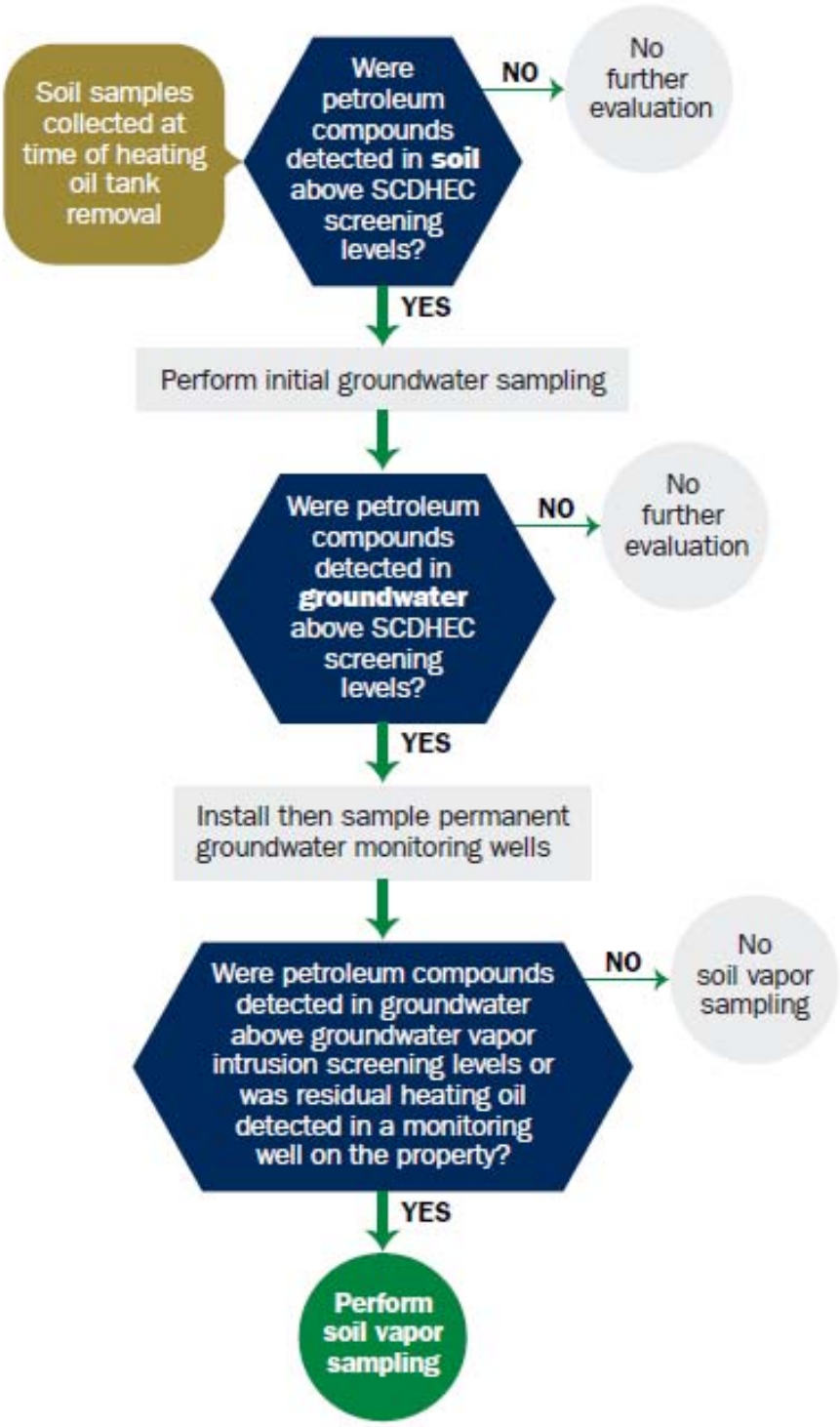
SCDHEC - South Carolina Department Of Health and Environmental Control

µg/L - micrograms per liter

VISL - Vapor Intrusion Screening Level

Appendix A
Multi-Media Selection Process for LBMH

CDM - AECOM
Multimedia Joint Venture



Appendix A - Multi-Media Selection Process for LBMH

Appendix B
UST Assessment Reports

CDM - AECOM
Multimedia Joint Venture

Attachment 1
South Carolina Department of Health and Environmental Control (SCDHEC)

Underground Storage Tank (UST) Assessment Report

Date Received

State Use Only

Submit Completed Form To:
UST Program
SCDHEC
2600 Bull Street
Columbia, South Carolina 29201
Telephone (803) 896-6240

I. OWNERSHIP OF UST (S)

Owner Name (Corporation, Individual, Public Agency, Other)
Beaufort Military Complex Family Housing

Mailing Address
1510 Laurel Bay Blvd.

City	State	Zip Code
Beaufort	SC	29906

Area Code	Telephone Number	Contact Person
843	379-3305	Luke Asterman

II. SITE IDENTIFICATION AND LOCATION

Permit I.D. #
N/A

Facility Name or Company Site Identifier
Actus Lend Lease, LLC

Street Address or State Road (as applicable)
101 TELS LANE

City	ZIP	County
Beaufort, SC	29906	Beaufort

Attachment 2

III. INSURANCE INFORMATION

Insurance Statement

The petroleum release reported to DHEC on N/A at Permit ID # 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.

And

I **do/do not** (circle one) wish to participate in the Superb Program.

IV. CERTIFICATION (To be signed by the UST owner/operator.)

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

V. UST INFORMATION

	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
A. Product...(ex. Gas, Kerosene).....	#2 Fuel					
B. Capacity..(ex. 1k, 2k).....	280 G					
C. Age.....						
D. Construction Material..(ex. Steel, FRP).....	Steel					
E. Month/Year of ~~Last Use~~.....						
F. Depth (ft.) To Base of Tank.....	52"					
G. Spill Prevention Equipment Y/(N).....	N					
H. Overfill Prevention Equipment Y/(N).....	N					
I. Method of Closure Removed/Filled.....	Removal					
J. Date Tanks Removed/Filled.....	9/24/07					
K. Visible Corrosion or Pitting Y(N).....	N					
L. Visible Holes Y(N).....	N					

M. Method of disposal for any USTs removed from the ground (attach disposal manifests)

Recycling: Scrap Steel

N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests) Republic- Broadhurst Landfill-

Solidification & Subtitle D Landfill

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

VI. PIPING INFORMATION

	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
A. Construction Material..(ex. Steel, FRP).....	Steel					
B. Distance from UST to Dispenser.....	N/A					
C. Number of Dispensers.....	-0-					
D. Type of System Pressure or Suction.....	Suction					
E. Was Piping Removed from the Ground? Y/N	Y					
F. Visible Corrosion or Pitting Y/N.....	N					
G. Visible Holes Y/N.....	N					
H. Age.....						

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

VII. BRIEF SITE DESCRIPTION AND HISTORY

RESIDENTIAL HOME HEATING OIL TANK

VIII. SITE CONDITIONS

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

IX. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number DW: 84009002

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
					9/26/07		
1	Bottom	S	SAND	52"	11:10	Echevarria	N/D
2	SIDE	S	SAND	37"	11:00	Echevarria	ND
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

* = Depth Below the Surrounding Land Surface

X.

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.

EPA Method 8260B : Volatile Organic Compounds
- Preservatives: 2 ea. Sodium Bisulfate; 1 ea. Methanol

EPA Method 8270 : Polyaromatic Hydrocarbons
- No Preservative

One (1) sidewall and one (1) bottom sample were secured from each UST excavation. Samples were stored and shipped in an insulated cooler with wet Ice.

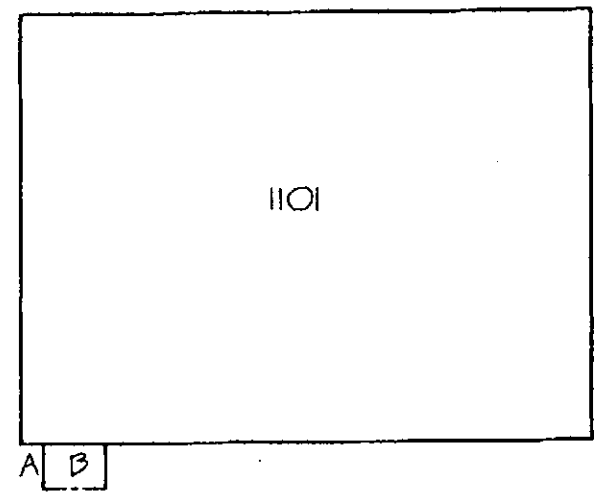
XI. RECEPTORS

	Yes	No
A. Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system? If yes, indicate type of receptor, distance, and direction on site map.		✓
B. Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system? If yes, indicate type of well, distance, and direction on site map.		✓
C. Are there any underground structures (e.g., basements) Located within 100 feet of the UST system? If yes, indicate type of structure, distance, and direction on site map.		✓
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? If yes, indicate the type of utility, distance, and direction on the site map.		✓
E. Has contaminated soil been identified at a depth less than 3 feet below land surface in an area that is not capped by asphalt or concrete? If yes, indicate the area of contaminated soil on the site map.		✓

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)



TANK 1 BASE 52"

IRIS LANE

N

TANK 1 EXCAVATION

A-SOIL TEST SIDE SAMPLE @ 37"
B-SOIL TEST BOTTOM SAMPLE @ 52"

CUSTOMER: BEAUFORT MILITARY COMPLEX FAMILY HOUSING	SCALE: 1/16"=1'-0"	EPG INC.
SITE ADDRESS: 1101 IRIS LANE	SUPPLIER: EPG INC.	P.O. BOX 1096
	DATE: 10/14/2007	MOUNT PLEASANT, SC 29465-1096


09/26/2007 11:06

SUMMARY OF ANALYSIS RESULTS N/A

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

CoC	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8
Benzene								
Toluene								
Ethylbenzene								
Xylenes								
Naphthalene								
Benzo(a)anthracene								
Benzo(b)flouranthene								
Benzo(k)flouranthene								
Chrysene								
Dibenz(a,h)anthracene								
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)flouranthene								
Benzo(k)flouranthene								
Chrysene								
Dibenz(a,h)anthracene								
TPH (EPA 3550)								

SUMMARY OF ANALYSIS RESULTS (cont'd) N/A

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	.05				
Lead	Site specific				

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)

Client: EPG, INC.
PO BOX 1096
MT PLEASANT, SC 29465
Attn: JOHN MAHONEY

Work Order: OQI0667
Project: LAUREL BAY
Project Number: EP2362

Sampled: 09/26/07-09/27/07
Received: 09/29/07

LABORATORY REPORT
Sample ID: 1101 IRIS BOTTOM 01 - Lab Number: OQI0667-01 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
General Chemistry Parameters											
NA	**% Solids**	86.5		%.	0.100	0.100	1	10/02/07 17:20	RRP	EPA 160.3	7J02047
Volatile Organic Compounds by EPA Method 8260B											
71-43-2	Benzene	0.128	U	ug/kg dry	0.128	0.351	1	10/03/07 13:50	JWT	EPA 8260B	7J03029
100-41-4	Ethylbenzene	0.148	U	ug/kg dry	0.148	0.351	1	10/03/07 13:50	JWT	EPA 8260B	7J03029
91-20-3	**Naphthalene**	**0.358**		ug/kg dry	0.194	0.351	1	10/03/07 13:50	JWT	EPA 8260B	7J03029
108-88-3	Toluene	0.303	U	ug/kg dry	0.303	0.351	1	10/03/07 13:50	JWT	EPA 8260B	7J03029
1330-20-7	Xylenes, total	0.182	U	ug/kg dry	0.182	0.351	1	10/03/07 13:50	JWT	EPA 8260B	7J03029
Surrogate: 1,2-Dichloroethane-d4 (73-137%)		*122 %*									
Surrogate: 4-Bromofluorobenzene (59-118%)		*103 %*									
Surrogate: Dibromofluoromethane (55-145%)		*99 %*									
Surrogate: Toluene-d8 (80-117%)		*94 %*									
Polynuclear Aromatic Hydrocarbons by EPA Method 8270											
83-32-9	Acenaphthene	85.6	U	ug/kg dry	85.6	193	1	10/02/07 08:41	REM	EPA 8270C	7J01012
208-96-8	Acenaphthylene	113	U	ug/kg dry	113	193	1	10/02/07 08:41	REM	EPA 8270C	7J01012
120-12-7	Anthracene	61.6	U	ug/kg dry	61.6	193	1	10/02/07 08:41	REM	EPA 8270C	7J01012
56-55-3	**Benzo (a) anthracene**	**39.7**	I	ug/kg dry	20.9	193	1	10/02/07 08:41	REM	EPA 8270C	7J01012
205-99-2	**Benzo (b) fluoranthene**	**37.4**	I	ug/kg dry	20.3	193	1	10/02/07 08:41	REM	EPA 8270C	7J01012
207-08-9	Benzo (k) fluoranthene	20.3	U	ug/kg dry	20.3	193	1	10/02/07 08:41	REM	EPA 8270C	7J01012
191-24-2	Benzo (g,h,i) perylene	20.0	U	ug/kg dry	20.0	193	1	10/02/07 08:41	REM	EPA 8270C	7J01012
50-32-8	**Benzo (a) pyrene**	**26.2**	I	ug/kg dry	23.8	193	1	10/02/07 08:41	REM	EPA 8270C	7J01012
90-12-0	1-Methylnaphthalene	96.9	U	ug/kg dry	96.9	193	1	10/02/07 08:41	REM	EPA 8270C	7J01012
218-01-9	**Chrysene**	**37.0**	I	ug/kg dry	23.1	193	1	10/02/07 08:41	REM	EPA 8270C	7J01012
53-70-3	Dibenz (a,h) anthracene	25.4	U	ug/kg dry	25.4	193	1	10/02/07 08:41	REM	EPA 8270C	7J01012
206-44-0	Fluoranthene	27.8	U	ug/kg dry	27.8	193	1	10/02/07 08:41	REM	EPA 8270C	7J01012
86-73-7	Fluorene	75.6	U	ug/kg dry	75.6	193	1	10/02/07 08:41	REM	EPA 8270C	7J01012
193-39-5	Indeno (1,2,3-cd) pyrene	25.0	U	ug/kg dry	25.0	193	1	10/02/07 08:41	REM	EPA 8270C	7J01012
91-57-6	2-Methylnaphthalene	82.3	U	ug/kg dry	82.3	193	1	10/02/07 08:41	REM	EPA 8270C	7J01012
91-20-3	Naphthalene	77.6	U	ug/kg dry	77.6	193	1	10/02/07 08:41	REM	EPA 8270C	7J01012
85-01-8	Phenanthrene	45.6	U	ug/kg dry	45.6	193	1	10/02/07 08:41	REM	EPA 8270C	7J01012
129-00-0	Pyrene	39.2	U	ug/kg dry	39.2	193	1	10/02/07 08:41	REM	EPA 8270C	7J01012
Surrogate: 2-Fluorobiphenyl (24-121%)		*61 %*									
Surrogate: Nitrobenzene-d5 (19-111%)		*59 %*									
Surrogate: Terphenyl-d14 (44-171%)		*90 %*									

LABORATORY REPORT
Sample ID: 1101 IRIS SIDE 02 - Lab Number: OQI0667-02 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
General Chemistry Parameters											
NA	**% Solids**	87.6		%.	0.100	0.100	1	10/02/07 17:20	RRP	EPA 160.3	7J02048
Volatile Organic Compounds by EPA Method 8260B											
71-43-2	Benzene	0.107	U	ug/kg dry	0.107	0.291	1	10/03/07 14:07	JWT	EPA 8260B	7J03029
100-41-4	Ethylbenzene	0.123	U	ug/kg dry	0.123	0.291	1	10/03/07 14:07	JWT	EPA 8260B	7J03029

TestAmerica - Orlando, FL
Shali Brown
Project Manager

Client: EPG, INC.
PO BOX 1096
MT PLEASANT, SC 29465
Attn: JOHN MAHONEY

Work Order: OQI0667
Project: LAUREL BAY
Project Number: EP2362

Sampled: 09/26/07-09/27/07
Received: 09/29/07

LABORATORY REPORT
Sample ID: 1101 IRIS SIDE 02 - Lab Number: OQI0667-02 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Volatile Organic Compounds by EPA Method 8260B - Cont.											
91-20-3	Naphthalene	0.161	U	ug/kg dry	0.161	0.291	1	10/03/07 14:07	JWT	EPA 8260B	7J03029
108-88-3	Toluene	0.251	U	ug/kg dry	0.251	0.291	1	10/03/07 14:07	JWT	EPA 8260B	7J03029
1330-20-7	Xylenes, total	0.151	U	ug/kg dry	0.151	0.291	1	10/03/07 14:07	JWT	EPA 8260B	7J03029
Surrogate: 1,2-Dichloroethane-d4 (73-137%)		*119 %*									
Surrogate: 4-Bromofluorobenzene (59-118%)		*97 %*									
Surrogate: Dibromofluoromethane (55-145%)		*100 %*									
Surrogate: Toluene-d8 (80-117%)		*94 %*									
Polynuclear Aromatic Hydrocarbons by EPA Method 8270											
83-32-9	Acenaphthene	84.4	U	ug/kg dry	84.4	191	1	10/02/07 09:03	REM	EPA 8270C	7J01012
208-96-8	Acenaphthylene	111	U	ug/kg dry	111	191	1	10/02/07 09:03	REM	EPA 8270C	7J01012
120-12-7	Anthracene	60.8	U	ug/kg dry	60.8	191	1	10/02/07 09:03	REM	EPA 8270C	7J01012
56-55-3	**Benzo (a) anthracene**	**86.7**	I	ug/kg dry	20.6	191	1	10/02/07 09:03	REM	EPA 8270C	7J01012
205-99-2	**Benzo (b) fluoranthene**	**71.9**	I	ug/kg dry	20.1	191	1	10/02/07 09:03	REM	EPA 8270C	7J01012
207-08-9	**Benzo (k) fluoranthene**	**30.0**	I	ug/kg dry	20.1	191	1	10/02/07 09:03	REM	EPA 8270C	7J01012
191-24-2	Benzo (g,h,i) perylene	19.8	U	ug/kg dry	19.8	191	1	10/02/07 09:03	REM	EPA 8270C	7J01012
50-32-8	**Benzo (a) pyrene**	**39.9**	I	ug/kg dry	23.4	191	1	10/02/07 09:03	REM	EPA 8270C	7J01012
90-12-0	1-Methylnaphthalene	95.6	U	ug/kg dry	95.6	191	1	10/02/07 09:03	REM	EPA 8270C	7J01012
218-01-9	**Chrysene**	**90.5**	I	ug/kg dry	22.8	191	1	10/02/07 09:03	REM	EPA 8270C	7J01012
53-70-3	Dibenz (a,h) anthracene	25.0	U	ug/kg dry	25.0	191	1	10/02/07 09:03	REM	EPA 8270C	7J01012
206-44-0	Fluoranthene	27.4	U	ug/kg dry	27.4	191	1	10/02/07 09:03	REM	EPA 8270C	7J01012
86-73-7	Fluorene	74.6	U	ug/kg dry	74.6	191	1	10/02/07 09:03	REM	EPA 8270C	7J01012
193-39-5	Indeno (1,2,3-cd) pyrene	24.7	U	ug/kg dry	24.7	191	1	10/02/07 09:03	REM	EPA 8270C	7J01012
91-57-6	2-Methylnaphthalene	81.2	U	ug/kg dry	81.2	191	1	10/02/07 09:03	REM	EPA 8270C	7J01012
91-20-3	Naphthalene	76.5	U	ug/kg dry	76.5	191	1	10/02/07 09:03	REM	EPA 8270C	7J01012
85-01-8	Phenanthrene	44.9	U	ug/kg dry	44.9	191	1	10/02/07 09:03	REM	EPA 8270C	7J01012
129-00-0	Pyrene	38.7	U	ug/kg dry	38.7	191	1	10/02/07 09:03	REM	EPA 8270C	7J01012
Surrogate: 2-Fluorobiphenyl (24-121%)		*69 %*									
Surrogate: Nitrobenzene-d5 (19-111%)		*69 %*									
Surrogate: Terphenyl-d14 (44-171%)		*96 %*									

LABORATORY REPORT
Sample ID: 1113 IRIS BOTTOM 01 - Lab Number: OQI0667-03 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
General Chemistry Parameters											
NA	**% Solids**	**90.3**		%.	0.100	0.100	1	10/02/07 17:20	RRP	EPA 160.3	7J02048
Volatile Organic Compounds by EPA Method 8260B											
71-43-2	Benzene	0.115	U	ug/kg dry	0.115	0.313	1	10/03/07 14:23	JWT	EPA 8260B	7J03029
100-41-4	**Ethylbenzene**	**0.332**		ug/kg dry	0.132	0.313	1	10/03/07 14:23	JWT	EPA 8260B	7J03029
91-20-3	**Naphthalene**	**2.34**		ug/kg dry	0.173	0.313	1	10/03/07 14:23	JWT	EPA 8260B	7J03029
108-88-3	**Toluene**	**0.482**	V	ug/kg dry	0.270	0.313	1	10/03/07 14:23	JWT	EPA 8260B	7J03029
1330-20-7	**Xylenes, total**	**1.83**	V	ug/kg dry	0.163	0.313	1	10/03/07 14:23	JWT	EPA 8260B	7J03029
Surrogate: 1,2-Dichloroethane-d4 (73-137%)		*123 %*									

TestAmerica - Orlando, FL
Shali Brown
Project Manager

TestAmerica
ANALYTICAL TESTING CORPORATION

0QI0667

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

Client Name: EPG Client #: 2411
Address:
City/State/Zip Code:
Project Manager: J. MAHONEY
Telephone Number: Fax
Sampler Name: (Print Name) CHRIS ECHEVARRIA
Sampler Signature:

Project Name: LAUREL BAY
Project #: EP 2362
Site/Location ID: State:
Report To:
Invoice To:
Quote #: PO#:

TAT: X Standard; ___ Rush (surcharges may apply)
Date Needed:
Fax Results: Y N

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other	Preservation & # of Containers: HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	Analyze For: BTEX + NAPTH 8260	PAH 8270	QC Deliverables	REMARKS
1101 IRIS BOTTOM 01	9-26-07	1110	G							1	2	2	X	X	None	01
1101 IRIS SIDE 02	9-26-07	1100	C							1	2	2	X	X	X Level 2 (Batch QC)	02
1113 IRIS BOTTOM 01	9-26-07	1536	G							1	2	2	X	X	___ Level 3	03
1113 IRIS SIDE 02	9-26-07	1530	C							1	2	2	X	X	___ Level 4	04
1160 JASMINE BOTTOM 01	9-27-07	1110	G							1	2	2	X	X	Other:	05
1160 JASMINE SIDE 02	9-27-07	1110	C							1	2	2	X	X		06
TB																07 TB

Special Instructions:

	Date	Time		Date	Time
Relinquished By:	9/28/07	1630	Received By:	9/28/07	1630
Relinquished By:	9/28	1730	Received By:	9/29	10:00
Relinquished By:	Date:	Time:	Received By	Date:	Time:

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp: 4.6
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment: 8626 4331 5537 FedEx to TA-Orlando

rec'd 6-23-11

Attachment 1

South Carolina Department of Health and Environmental Control (SCDHEC)

Underground Storage Tank (UST) Assessment Report

Date Received

State Use Only

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

I. OWNERSHIP OF UST (S)

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

P.O. Box 55001
Mailing Address

Beaufort,	South Carolina	29904-5001
City	State	Zip Code

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

II. SITE IDENTIFICATION AND LOCATION

Permit I.D. #

Laurel Bay Military Housing Area, Marine Corps Air Station, Beaufort, SC
Facility Name or Company Site Identifier

1101 Iris Lane, Laurel Bay Military Housing Area
Street Address or State Road (as applicable)

Beaufort,	Beaufort
City	County

Attachment 2

III. INSURANCE INFORMATION

Insurance Statement

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

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

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

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

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

IV. REQUEST FOR SUPERB FUNDING

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

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

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

_____
Name (Type or print.)

_____
Signature

To be completed by Notary Public:

Sworn before me this _____ day of_____, 20____

_____
(Name)

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

VI. UST INFORMATION

	1101Iris				
A. Product...(ex. Gas, Kerosene).....	Heating oil				
B. Capacity..(ex. 1k, 2k).....	280 gal				
C. Age.....	Late 1950s				
D. Construction Material..(ex. Steel, FRP).....	Steel				
E. Month/Year of Last Use.....	Mid 1980s				
F. Depth (ft.) To Base of Tank.....	5'				
G. Spill Prevention Equipment Y/N.....	No				
H. Overfill Prevention Equipment Y/N.....	No				
I. Method of Closure Removed/Filled.....	Removed				
J. Date Tanks Removed/Filled.....	3/24/2011				
K. Visible Corrosion or Pitting Y/N.....	Yes				
L. Visible Holes Y/N.....	Yes				

M. Method of disposal for any USTs removed from the ground (attach disposal manifests)
UST 1101Iris was removed from the ground and disposed of at a Subtitle "D" landfill. See Attachment "A."

N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests)
UST 1101Iris was 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

1101Iris				
Steel & Copper				
N/A				
N/A				
Suction				
No				
Yes				
No				
Late 1950s				

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.

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

VIII. BRIEF SITE DESCRIPTION AND HISTORY

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

IX. SITE CONDITIONS

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

X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 84009

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
1101Iris	Excav at fill end	Soil	Sandy	5'	3/24/11 1115 hrs	P. Shaw	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

* = Depth Below the Surrounding Land Surface

XI. SAMPLING METHODOLOGY

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

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

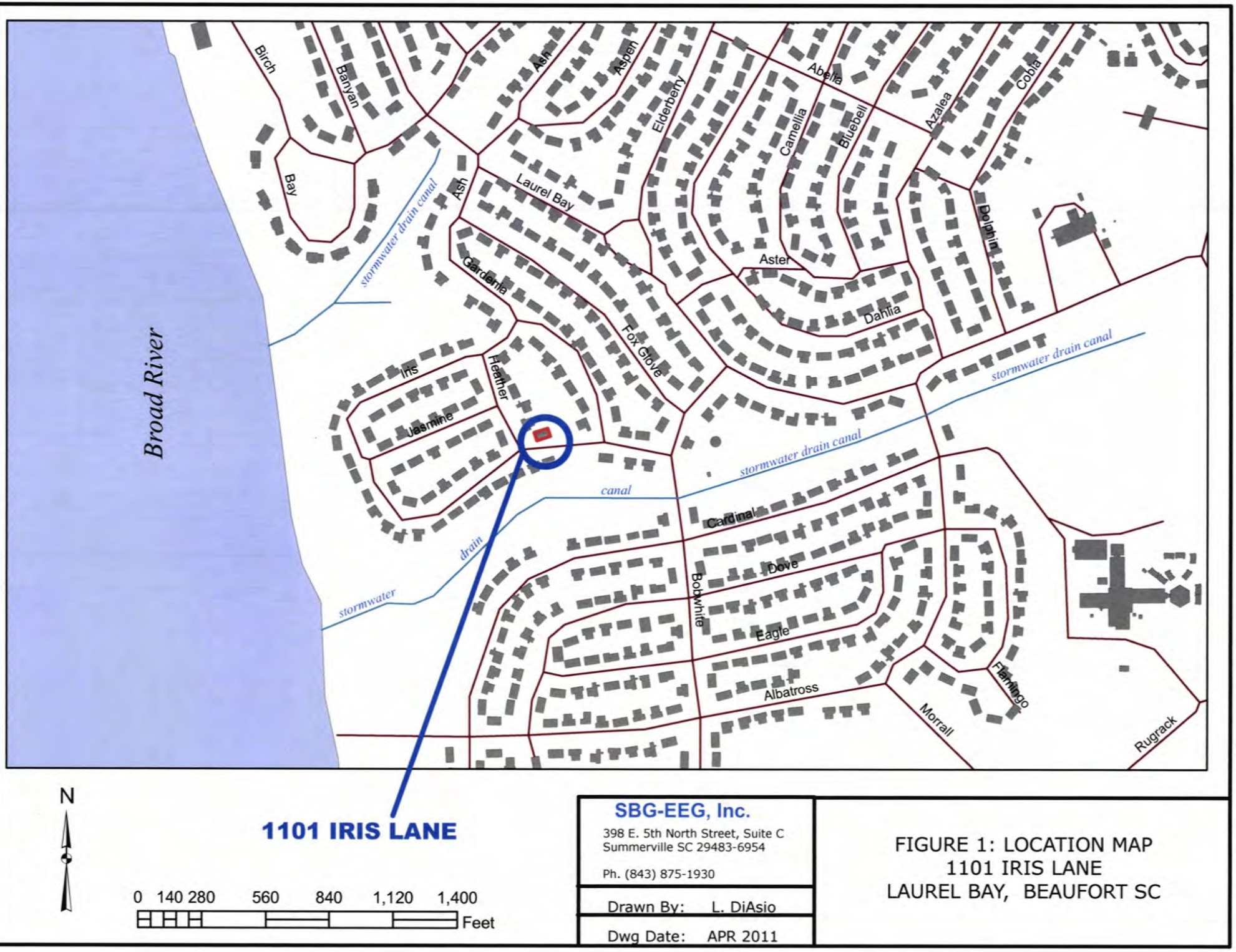
XII. RECEPTORS

	Yes	No
A. Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system? *~190' to stormwater canal If yes, indicate type of receptor, distance, and direction on site map.	*X	
B. Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system? If yes, indicate type of well, distance, and direction on site map.		X
C. Are there any underground structures (e.g., basements) Located within 100 feet of the UST system? If yes, indicate type of structure, distance, and direction on site map.		X
D. Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the contamination? *Sewer, water, electricity, cable & fiber optic If yes, indicate the type of utility, distance, and direction on the site map.	*X	
E. Has contaminated soil been identified at a depth less than 3 feet below land surface in an area that is not capped by asphalt or concrete? If yes, indicate the area of contaminated soil on the site map.		X

XIII. SITE MAP

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

(Attach Site Map Here)

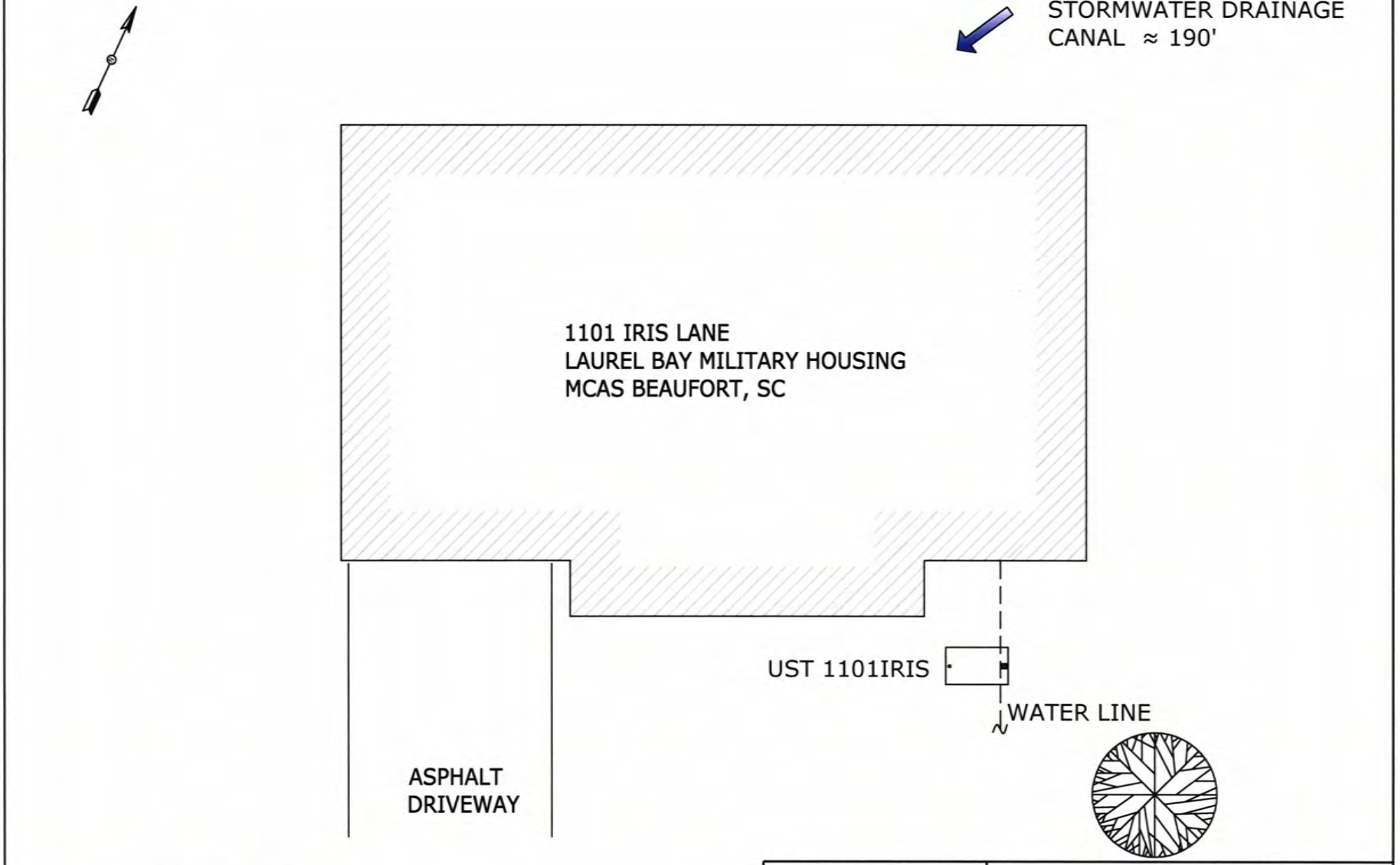


SBG-EEG, Inc.
398 E. 5th North Street, Suite C
Summerville SC 29483-6954
Ph. (843) 875-1930

Drawn By: L. DiAsio

Dwg Date: APR 2011

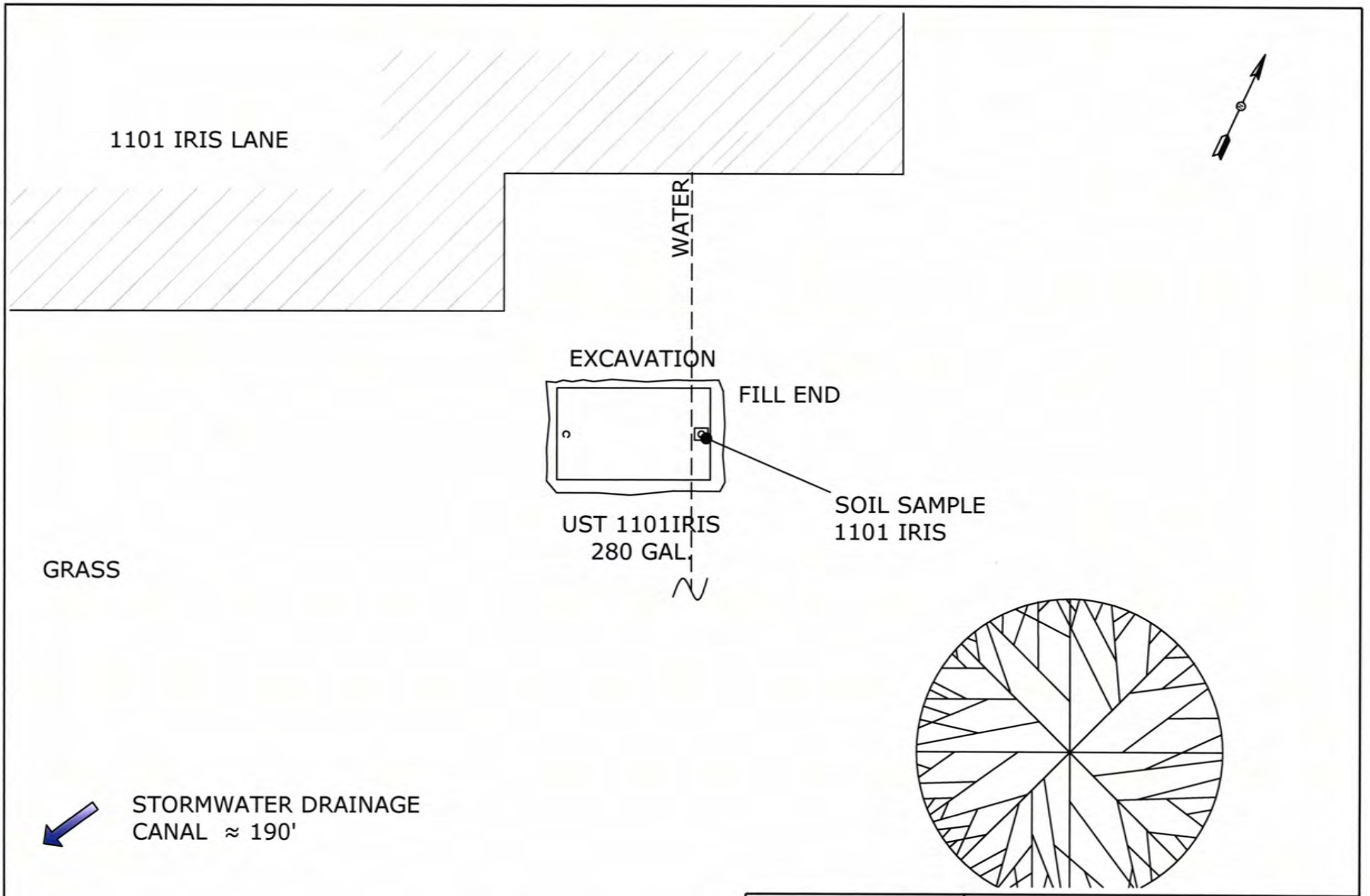
FIGURE 1: LOCATION MAP
1101 IRIS LANE
LAUREL BAY, BEAUFORT SC



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

FIGURE 2 SITE MAP
1101 IRIS LANE, LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC | DWG DATE APR 2011



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

FIGURE 3 UST SAMPLE LOCATIONS
1101 IRIS LANE, LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC | DWG DATE APR 2011

Picture 1: Location of UST 1101Iris.

Picture 2: UST 1101Iris 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.

CoC UST	1101Iris						
Benzene	ND						
Toluene	0.00104 mg/kg						
Ethylbenzene	0.0617 mg/kg						
Xylenes	0.270 mg/kg						
Naphthalene	1.02 mg/kg						
Benzo (a) anthracene	ND						
Benzo (b) fluoranthene	ND						
Benzo (k) fluoranthene	ND						
Chrysene	ND						
Dibenz (a, h) anthracene	ND						
TPH (EPA 3550)							

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

SUMMARY OF ANALYSIS RESULTS (cont'd)

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

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

XV. ANALYTICAL RESULTS

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

April 11, 2011 10:57:29AM

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

Work Order: NUC4497
Project Name: Laurel Bay Housing Project
Project Nbr: [none]
P/O Nbr: 1027
Date Received: 03/26/11

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
1010 Foxglove	NUC4497-01	03/21/11 14:15
1071 Heather	NUC4497-02	03/22/11 09:45
1068 Gardenia	NUC4497-03	03/22/11 15:00
1039 Iris	NUC4497-04	03/23/11 10:45
1100 Iris	NUC4497-05	03/23/11 15:15
1101 Iris	NUC4497-06	03/24/11 11:15
1105 Iris	NUC4497-07	03/24/11 16:00

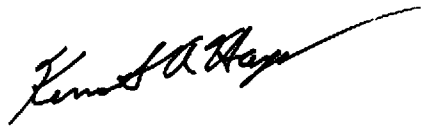
An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed,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

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:



Ken A. Hayes

Senior Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC4497
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/26/11 08:25

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUC4497-01 (1010 Foxglove - Soil) Sampled: 03/21/11 14:15										
General Chemistry Parameters										
% Dry Solids	**94.0**		%	0.500	0.500	1	04/06/11 12:29	SW-846	AMS	11D0901
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00127	0.00231	1	03/30/11 17:26	SW846 8260B	MJH/H	11C5756
Ethylbenzene	ND		mg/kg dry	0.00113	0.00231	1	03/30/11 17:26	SW846 8260B	MJH/H	11C5756
Naphthalene	ND		mg/kg dry	0.00197	0.00578	1	03/30/11 17:26	SW846 8260B	MJH/H	11C5756
Toluene	ND		mg/kg dry	0.00103	0.00231	1	03/30/11 17:26	SW846 8260B	MJH/H	11C5756
Xylenes, total	ND		mg/kg dry	0.00220	0.00578	1	03/30/11 17:26	SW846 8260B	MJH/H	11C5756
Surr: 1,2-Dichloroethane-d4 (67-138%)	*110 %*					*1*	*03/30/11 17:26*	*SW846 8260B*	*MJH/H*	*11C5756*
Surr: Dibromofluoromethane (75-125%)	*103 %*					*1*	*03/30/11 17:26*	*SW846 8260B*	*MJH/H*	*11C5756*
Surr: Toluene-d8 (76-129%)	*92 %*					*1*	*03/30/11 17:26*	*SW846 8260B*	*MJH/H*	*11C5756*
Surr: 4-Bromofluorobenzene (67-147%)	*100 %*					*1*	*03/30/11 17:26*	*SW846 8260B*	*MJH/H*	*11C5756*
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0147	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
Acenaphthylene	ND		mg/kg dry	0.0210	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
Anthracene	ND		mg/kg dry	0.00944	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
Benzo (a) anthracene	ND		mg/kg dry	0.0115	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
Benzo (a) pyrene	ND		mg/kg dry	0.00839	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
Benzo (b) fluoranthene	ND		mg/kg dry	0.0398	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
Benzo (g,h,i) perylene	ND		mg/kg dry	0.00944	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
Benzo (k) fluoranthene	ND		mg/kg dry	0.0388	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
Chrysene	ND		mg/kg dry	0.0325	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0157	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
Fluoranthene	ND		mg/kg dry	0.0115	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
Fluorene	ND		mg/kg dry	0.0210	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0325	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
Naphthalene	ND		mg/kg dry	0.0147	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
Phenanthrene	ND		mg/kg dry	0.0105	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
Pyrene	ND		mg/kg dry	0.0241	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
1-Methylnaphthalene	ND		mg/kg dry	0.0126	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
2-Methylnaphthalene	ND		mg/kg dry	0.0220	0.0702	1	03/30/11 15:33	SW846 8270D	AJK	11C6845
Surr: Terphenyl-d14 (18-120%)	*55 %*					*1*	*03/30/11 15:33*	*SW846 8270D*	*AJK*	*11C6845*
Surr: 2-Fluorobiphenyl (14-120%)	*48 %*					*1*	*03/30/11 15:33*	*SW846 8270D*	*AJK*	*11C6845*
Surr: Nitrobenzene-d5 (17-120%)	*47 %*					*1*	*03/30/11 15:33*	*SW846 8270D*	*AJK*	*11C6845*

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC4497
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/26/11 08:25

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUC4497-02 (1071 Heather - Soil) Sampled: 03/22/11 09:45										
General Chemistry Parameters										
% Dry Solids	**84.0**		%	0.500	0.500	1	04/06/11 12:29	SW-846	AMS	11D0901
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00106	0.00193	1	03/30/11 17:56	SW846 8260B	MJH/H	11C5756
Ethylbenzene	ND		mg/kg dry	0.000947	0.00193	1	03/30/11 17:56	SW846 8260B	MJH/H	11C5756
Naphthalene	ND		mg/kg dry	0.00164	0.00483	1	03/30/11 17:56	SW846 8260B	MJH/H	11C5756
Toluene	ND		mg/kg dry	0.000860	0.00193	1	03/30/11 17:56	SW846 8260B	MJH/H	11C5756
Xylenes, total	ND		mg/kg dry	0.00184	0.00483	1	03/30/11 17:56	SW846 8260B	MJH/H	11C5756
Surr: 1,2-Dichloroethane-d4 (67-138%)	*109 %*					*1*	*03/30/11 17:56*	*SW846 8260B*	*MJH/H*	*11C5756*
Surr: Dibromofluoromethane (75-125%)	*100 %*					*1*	*03/30/11 17:56*	*SW846 8260B*	*MJH/H*	*11C5756*
Surr: Toluene-d8 (76-129%)	*94 %*					*1*	*03/30/11 17:56*	*SW846 8260B*	*MJH/H*	*11C5756*
Surr: 4-Bromofluorobenzene (67-147%)	*104 %*					*1*	*03/30/11 17:56*	*SW846 8260B*	*MJH/H*	*11C5756*
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0162	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
Acenaphthylene	ND		mg/kg dry	0.0231	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
Anthracene	ND		mg/kg dry	0.0104	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
Benzo (a) anthracene	ND		mg/kg dry	0.0127	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
Benzo (a) pyrene	ND		mg/kg dry	0.00926	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
Benzo (b) fluoranthene	ND		mg/kg dry	0.0440	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0104	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
Benzo (k) fluoranthene	ND		mg/kg dry	0.0428	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
Chrysene	ND		mg/kg dry	0.0359	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0174	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
Fluoranthene	ND		mg/kg dry	0.0127	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
Fluorene	ND		mg/kg dry	0.0231	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0359	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
Naphthalene	ND		mg/kg dry	0.0162	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
Phenanthrene	ND		mg/kg dry	0.0116	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
Pyrene	ND		mg/kg dry	0.0266	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
1-Methylnaphthalene	ND		mg/kg dry	0.0139	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
2-Methylnaphthalene	ND		mg/kg dry	0.0243	0.0775	1	03/30/11 15:52	SW846 8270D	AJK	11C6845
Surr: Terphenyl-d14 (18-120%)	*53 %*					*1*	*03/30/11 15:52*	*SW846 8270D*	*AJK*	*11C6845*
Surr: 2-Fluorobiphenyl (14-120%)	*51 %*					*1*	*03/30/11 15:52*	*SW846 8270D*	*AJK*	*11C6845*
Surr: Nitrobenzene-d5 (17-120%)	*48 %*					*1*	*03/30/11 15:52*	*SW846 8270D*	*AJK*	*11C6845*

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THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC4497
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/26/11 08:25

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUC4497-03 (1068 Gardenia - Soil) Sampled: 03/22/11 15:00										
General Chemistry Parameters										
% Dry Solids	83.2		%	0.500	0.500	1	04/06/11 12:29	SW-846	AMS	11D0901
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00114	0.00208	1	03/30/11 18:25	SW846 8260B	MJH/H	11C5756
Ethylbenzene	ND		mg/kg dry	0.00102	0.00208	1	03/30/11 18:25	SW846 8260B	MJH/H	11C5756
Naphthalene	ND		mg/kg dry	0.00177	0.00520	1	03/30/11 18:25	SW846 8260B	MJH/H	11C5756
Toluene	ND		mg/kg dry	0.000926	0.00208	1	03/30/11 18:25	SW846 8260B	MJH/H	11C5756
Xylenes, total	ND		mg/kg dry	0.00198	0.00520	1	03/30/11 18:25	SW846 8260B	MJH/H	11C5756
Surr: 1,2-Dichloroethane-d4 (67-138%)	*108 %*					*1*	*03/30/11 18:25*	*SW846 8260B*	*MJH H*	*11C5756*
Surr: Dibromofluoromethane (75-125%)	*102 %*					*1*	*03/30/11 18:25*	*SW846 8260B*	*MJH H*	*11C5756*
Surr: Toluene-d8 (76-129%)	*96 %*					*1*	*03/30/11 18:25*	*SW846 8260B*	*MJH H*	*11C5756*
Surr: 4-Bromofluorobenzene (67-147%)	*111 %*					*1*	*03/30/11 18:25*	*SW846 8260B*	*MJH H*	*11C5756*
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0166	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
Acenaphthylene	ND		mg/kg dry	0.0237	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
Anthracene	ND		mg/kg dry	0.0107	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
Benzo (a) anthracene	ND		mg/kg dry	0.0130	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
Benzo (a) pyrene	ND		mg/kg dry	0.00948	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
Benzo (b) fluoranthene	ND		mg/kg dry	0.0450	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0107	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
Benzo (k) fluoranthene	ND		mg/kg dry	0.0438	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
Chrysene	ND		mg/kg dry	0.0367	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0178	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
Fluoranthene	ND		mg/kg dry	0.0130	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
Fluorene	ND		mg/kg dry	0.0237	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0367	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
Naphthalene	ND		mg/kg dry	0.0166	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
Phenanthrene	ND		mg/kg dry	0.0118	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
Pyrene	ND		mg/kg dry	0.0273	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
1-Methylnaphthalene	ND		mg/kg dry	0.0142	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
2-Methylnaphthalene	ND		mg/kg dry	0.0249	0.0794	1	03/30/11 16:10	SW846 8270D	AJK	11C6845
Surr: Terphenyl-d14 (18-120%)	*57 %*					*1*	*03/30/11 16:10*	*SW846 8270D*	*AJK*	*11C6845*
Surr: 2-Fluorobiphenyl (14-120%)	*59 %*					*1*	*03/30/11 16:10*	*SW846 8270D*	*AJK*	*11C6845*
Surr: Nitrobenzene-d5 (17-120%)	*49 %*					*1*	*03/30/11 16:10*	*SW846 8270D*	*AJK*	*11C6845*

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC4497
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/26/11 08:25

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUC4497-04 (1039 Iris - Soil) Sampled: 03/23/11 10:45										
General Chemistry Parameters										
% Dry Solids	**89.5**		%	0.500	0.500	1	04/06/11 12:29	SW-846	AMS	11D0901
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00121	0.00220	1	03/31/11 13:36	SW846 8260B	MJH/H	11C7723
Ethylbenzene	ND	RL1	mg/kg dry	0.0662	0.135	50	03/31/11 14:06	SW846 8260B	MJH/H	11C7723
Naphthalene	ND	RL1	mg/kg dry	0.115	0.338	50	03/31/11 14:06	SW846 8260B	MJH/H	11C7723
Toluene	ND	RL1	mg/kg dry	0.0602	0.135	50	03/31/11 14:06	SW846 8260B	MJH/H	11C7723
Xylenes, total	ND	RL1	mg/kg dry	0.128	0.338	50	03/31/11 14:06	SW846 8260B	MJH/H	11C7723
Surr: 1,2-Dichloroethane-d4 (67-138%)	*132 %*					*1*	*03/31/11 13:36*	*SW846 8260B*	*MJH/H*	*11C7723*
Surr: 1,2-Dichloroethane-d4 (67-138%)	*108 %*					*50*	*03/31/11 14:06*	*SW846 8260B*	*MJH/H*	*11C7723*
Surr: Dibromofluoromethane (75-125%)	*108 %*					*1*	*03/31/11 13:36*	*SW846 8260B*	*MJH/H*	*11C7723*
Surr: Dibromofluoromethane (75-125%)	*93 %*					*50*	*03/31/11 14:06*	*SW846 8260B*	*MJH/H*	*11C7723*
Surr: Toluene-d8 (76-129%)	*114 %*					*1*	*03/31/11 13:36*	*SW846 8260B*	*MJH/H*	*11C7723*
Surr: Toluene-d8 (76-129%)	*92 %*					*50*	*03/31/11 14:06*	*SW846 8260B*	*MJH/H*	*11C7723*
Surr: 4-Bromofluorobenzene (67-147%)	*163 %*	*ZX*				*1*	*03/31/11 13:36*	*SW846 8260B*	*MJH/H*	*11C7723*
Surr: 4-Bromofluorobenzene (67-147%)	*103 %*					*50*	*03/31/11 14:06*	*SW846 8260B*	*MJH/H*	*11C7723*
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0155	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
Acenaphthylene	ND		mg/kg dry	0.0222	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
Anthracene	ND		mg/kg dry	0.00998	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
Benzo (a) anthracene	ND		mg/kg dry	0.0122	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
Benzo (a) pyrene	ND		mg/kg dry	0.00887	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
Benzo (b) fluoranthene	ND		mg/kg dry	0.0421	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
Benzo (g,h,i) perylene	ND		mg/kg dry	0.00998	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
Benzo (k) fluoranthene	ND		mg/kg dry	0.0410	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
Chrysene	ND		mg/kg dry	0.0344	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0166	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
Fluoranthene	ND		mg/kg dry	0.0122	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
Fluorene	ND		mg/kg dry	0.0222	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0344	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
Naphthalene	ND		mg/kg dry	0.0155	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
Phenanthrene	ND		mg/kg dry	0.0111	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
Pyrene	ND		mg/kg dry	0.0255	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
1-Methylnaphthalene	ND		mg/kg dry	0.0133	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
2-Methylnaphthalene	ND		mg/kg dry	0.0233	0.0743	1	03/30/11 16:29	SW846 8270D	AJK	11C6845
Surr: Terphenyl-d14 (18-120%)	*76 %*					*1*	*03/30/11 16:29*	*SW846 8270D*	*AJK*	*11C6845*
Surr: 2-Fluorobiphenyl (14-120%)	*78 %*					*1*	*03/30/11 16:29*	*SW846 8270D*	*AJK*	*11C6845*
Surr: Nitrobenzene-d5 (17-120%)	*39 %*					*1*	*03/30/11 16:29*	*SW846 8270D*	*AJK*	*11C6845*

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2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC4497
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/26/11 08:25

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUC4497-05 (1100 Iris - Soil) Sampled: 03/23/11 15:15										
General Chemistry Parameters										
% Dry Solids	**82.4**		%	0.500	0.500	1	04/06/11 12:29	SW-846	AMS	11D0901
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00122	0.00222	1	03/30/11 19:25	SW846 8260B	MJH/H	11C5756
Ethylbenzene	ND		mg/kg dry	0.00109	0.00222	1	03/30/11 19:25	SW846 8260B	MJH/H	11C5756
Naphthalene	ND		mg/kg dry	0.00189	0.00555	1	03/30/11 19:25	SW846 8260B	MJH/H	11C5756
Toluene	ND		mg/kg dry	0.000987	0.00222	1	03/30/11 19:25	SW846 8260B	MJH/H	11C5756
Xylenes, total	ND		mg/kg dry	0.00211	0.00555	1	03/30/11 19:25	SW846 8260B	MJH/H	11C5756
Surr: 1,2-Dichloroethane-d4 (67-138%)	*107 %*					*1*	*03/30/11 19:25*	*SW846 8260B*	*MJH/H*	*11C5756*
Surr: Dibromofluoromethane (75-125%)	*100 %*					*1*	*03/30/11 19:25*	*SW846 8260B*	*MJH/H*	*11C5756*
Surr: Toluene-d8 (76-129%)	*95 %*					*1*	*03/30/11 19:25*	*SW846 8260B*	*MJH/H*	*11C5756*
Surr: 4-Bromofluorobenzene (67-147%)	*102 %*					*1*	*03/30/11 19:25*	*SW846 8260B*	*MJH/H*	*11C5756*
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0168	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
Acenaphthylene	ND		mg/kg dry	0.0241	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
Anthracene	ND		mg/kg dry	0.0108	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
Benzo (a) anthracene	ND		mg/kg dry	0.0132	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
Benzo (a) pyrene	ND		mg/kg dry	0.00962	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
Benzo (b) fluoranthene	ND		mg/kg dry	0.0457	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0108	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
Benzo (k) fluoranthene	ND		mg/kg dry	0.0445	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
Chrysene	ND		mg/kg dry	0.0373	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0180	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
Fluoranthene	ND		mg/kg dry	0.0132	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
Fluorene	ND		mg/kg dry	0.0241	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0373	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
Naphthalene	ND		mg/kg dry	0.0168	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
Phenanthrene	ND		mg/kg dry	0.0120	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
Pyrene	ND		mg/kg dry	0.0277	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
1-Methylnaphthalene	ND		mg/kg dry	0.0144	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
2-Methylnaphthalene	ND		mg/kg dry	0.0253	0.0806	1	03/30/11 16:48	SW846 8270D	AJK	11C6845
Surr: Terphenyl-d14 (18-120%)	*69 %*					*1*	*03/30/11 16:48*	*SW846 8270D*	*AJK*	*11C6845*
Surr: 2-Fluorobiphenyl (14-120%)	*57 %*					*1*	*03/30/11 16:48*	*SW846 8270D*	*AJK*	*11C6845*
Surr: Nitrobenzene-d5 (17-120%)	*54 %*					*1*	*03/30/11 16:48*	*SW846 8270D*	*AJK*	*11C6845*

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC4497
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/26/11 08:25

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUC4497-06 (1101 Iris - Soil) Sampled: 03/24/11 11:15										
General Chemistry Parameters										
% Dry Solids	**83.2**		%	0.500	0.500	1	04/06/11 12:29	SW-846	AMS	11D0901
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00103	0.00188	1	03/30/11 19:55	SW846 8260B	MJH/H	11C5756
Ethylbenzene	**0.0617**		mg/kg dry	0.000921	0.00188	1	03/30/11 19:55	SW846 8260B	MJH/H	11C5756
Naphthalene	**1.02**		mg/kg dry	0.0793	0.233	50	03/31/11 16:05	SW846 8260B	MJH/H	11C7723
Toluene	**0.00104**	J	mg/kg dry	0.000837	0.00188	1	03/30/11 19:55	SW846 8260B	MJH/H	11C5756
Xylenes, total	**0.270**		mg/kg dry	0.00179	0.00470	1	03/30/11 19:55	SW846 8260B	MJH/H	11C5756
Surr: 1,2-Dichloroethane-d4 (67-138%)	*109 %*					*1*	*03/30/11 19:55*	*SW846 8260B*	*MJH/H*	*11C5756*
Surr: 1,2-Dichloroethane-d4 (67-138%)	*99 %*					*50*	*03/31/11 16:05*	*SW846 8260B*	*MJH/H*	*11C7723*
Surr: Dibromofluoromethane (75-125%)	*99 %*					*1*	*03/30/11 19:55*	*SW846 8260B*	*MJH/H*	*11C5756*
Surr: Dibromofluoromethane (75-125%)	*87 %*					*50*	*03/31/11 16:05*	*SW846 8260B*	*MJH/H*	*11C7723*
Surr: Toluene-d8 (76-129%)	*116 %*					*1*	*03/30/11 19:55*	*SW846 8260B*	*MJH/H*	*11C5756*
Surr: Toluene-d8 (76-129%)	*102 %*					*50*	*03/31/11 16:05*	*SW846 8260B*	*MJH/H*	*11C7723*
Surr: 4-Bromofluorobenzene (67-147%)	*178 %*	*ZX*				*1*	*03/30/11 19:55*	*SW846 8260B*	*MJH/H*	*11C5756*
Surr: 4-Bromofluorobenzene (67-147%)	*100 %*					*50*	*03/31/11 16:05*	*SW846 8260B*	*MJH/H*	*11C7723*
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0167	0.0798	1	03/30/11 17:06	SW846 8270D	AJK	11C6845
Acenaphthylene	ND		mg/kg dry	0.0238	0.0798	1	03/30/11 17:06	SW846 8270D	AJK	11C6845
Anthracene	ND		mg/kg dry	0.0107	0.0798	1	03/30/11 17:06	SW846 8270D	AJK	11C6845
Benzo (a) anthracene	ND		mg/kg dry	0.0131	0.0798	1	03/30/11 17:06	SW846 8270D	AJK	11C6845
Benzo (a) pyrene	ND		mg/kg dry	0.00953	0.0798	1	03/30/11 17:06	SW846 8270D	AJK	11C6845
Benzo (b) fluoranthene	ND		mg/kg dry	0.0453	0.0798	1	03/30/11 17:06	SW846 8270D	AJK	11C6845
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0107	0.0798	1	03/30/11 17:06	SW846 8270D	AJK	11C6845
Benzo (k) fluoranthene	ND		mg/kg dry	0.0441	0.0798	1	03/30/11 17:06	SW846 8270D	AJK	11C6845
Chrysene	ND		mg/kg dry	0.0369	0.0798	1	03/30/11 17:06	SW846 8270D	AJK	11C6845
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0179	0.0798	1	03/30/11 17:06	SW846 8270D	AJK	11C6845
Fluoranthene	ND		mg/kg dry	0.0131	0.0798	1	03/30/11 17:06	SW846 8270D	AJK	11C6845
Fluorene	**0.807**		mg/kg dry	0.0238	0.0798	1	03/30/11 17:06	SW846 8270D	AJK	11C6845
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0369	0.0798	1	03/30/11 17:06	SW846 8270D	AJK	11C6845
Naphthalene	**1.01**		mg/kg dry	0.0167	0.0798	1	03/30/11 17:06	SW846 8270D	AJK	11C6845
Phenanthrene	**1.38**		mg/kg dry	0.0119	0.0798	1	03/30/11 17:06	SW846 8270D	AJK	11C6845
Pyrene	**0.0762**	J	mg/kg dry	0.0274	0.0798	1	03/30/11 17:06	SW846 8270D	AJK	11C6845
1-Methylnaphthalene	**3.89**		mg/kg dry	0.0143	0.0798	1	03/30/11 17:06	SW846 8270D	AJK	11C6845
2-Methylnaphthalene	**5.76**		mg/kg dry	0.125	0.399	5	03/31/11 12:05	SW846 8270D	ajk	11C6845
Surr: Terphenyl-d14 (18-120%)	*73 %*					*1*	*03/30/11 17:06*	*SW846 8270D*	*AJK*	*11C6845*
Surr: 2-Fluorobiphenyl (14-120%)	*64 %*					*1*	*03/30/11 17:06*	*SW846 8270D*	*AJK*	*11C6845*
Surr: Nitrobenzene-d5 (17-120%)	*63 %*					*1*	*03/30/11 17:06*	*SW846 8270D*	*AJK*	*11C6845*

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC4497
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/26/11 08:25

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUC4497-07 (1105 Iris - Soil) Sampled: 03/24/11 16:00										
General Chemistry Parameters										
% Dry Solids	85.0		%	0.500	0.500	1	04/06/11 12:29	SW-846	AMS	11D0901
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND	RL1	mg/kg dry	0.0594	0.108	50	03/31/11 15:06	SW846 8260B	MJH/H	11C7723
Ethylbenzene	ND	RL1	mg/kg dry	0.0529	0.108	50	03/31/11 15:06	SW846 8260B	MJH/H	11C7723
Naphthalene	ND	RL1	mg/kg dry	0.0918	0.270	50	03/31/11 15:06	SW846 8260B	MJH/H	11C7723
Toluene	ND	RL1	mg/kg dry	0.0481	0.108	50	03/31/11 15:06	SW846 8260B	MJH/H	11C7723
Xylenes, total	ND	RL1	mg/kg dry	0.103	0.270	50	03/31/11 15:06	SW846 8260B	MJH/H	11C7723
Surr: 1,2-Dichloroethane-d4 (67-138%)	*106 %*					*50*	*03/31/11 15:06*	*SW846 8260B*	*MJH/H*	*11C7723*
Surr: Dibromofluoromethane (75-125%)	*91 %*					*50*	*03/31/11 15:06*	*SW846 8260B*	*MJH/H*	*11C7723*
Surr: Toluene-d8 (76-129%)	*102 %*					*50*	*03/31/11 15:06*	*SW846 8260B*	*MJH/H*	*11C7723*
Surr: 4-Bromofluorobenzene (67-147%)	*104 %*					*50*	*03/31/11 15:06*	*SW846 8260B*	*MJH/H*	*11C7723*
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0163	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
Acenaphthylene	ND		mg/kg dry	0.0233	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
Anthracene	ND		mg/kg dry	0.0105	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
Benzo (a) anthracene	ND		mg/kg dry	0.0128	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
Benzo (a) pyrene	ND		mg/kg dry	0.00931	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
Benzo (b) fluoranthene	ND		mg/kg dry	0.0442	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0105	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
Benzo (k) fluoranthene	ND		mg/kg dry	0.0430	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
Chrysene	ND		mg/kg dry	0.0361	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0175	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
Fluoranthene	ND		mg/kg dry	0.0128	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
Fluorene	ND		mg/kg dry	0.0233	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0361	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
Naphthalene	ND		mg/kg dry	0.0163	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
Phenanthrene	ND		mg/kg dry	0.0116	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
Pyrene	ND		mg/kg dry	0.0268	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
1-Methylnaphthalene	ND		mg/kg dry	0.0140	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
2-Methylnaphthalene	ND		mg/kg dry	0.0244	0.0779	1	03/30/11 17:25	SW846 8270D	AJK	11C6845
Surr: Terphenyl-d14 (18-120%)	*68 %*					*1*	*03/30/11 17:25*	*SW846 8270D*	*AJK*	*11C6845*
Surr: 2-Fluorobiphenyl (14-120%)	*52 %*					*1*	*03/30/11 17:25*	*SW846 8270D*	*AJK*	*11C6845*
Surr: Nitrobenzene-d5 (17-120%)	*44 %*					*1*	*03/30/11 17:25*	*SW846 8270D*	*AJK*	*11C6845*

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC4497
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/26/11 08:25

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extract Vol	Date	Analyst	Extraction Method
Polyaromatic Hydrocarbons by EPA 8270D							
SW846 8270D	11C6845	NUC4497-01	30.43	1.00	03/29/11 10:40	SAS	EPA 3550C
SW846 8270D	11C6845	NUC4497-02	30.86	1.00	03/29/11 10:40	SAS	EPA 3550C
SW846 8270D	11C6845	NUC4497-03	30.44	1.00	03/29/11 10:40	SAS	EPA 3550C
SW846 8270D	11C6845	NUC4497-04	30.21	1.00	03/29/11 10:40	SAS	EPA 3550C
SW846 8270D	11C6845	NUC4497-05	30.28	1.00	03/29/11 10:40	SAS	EPA 3550C
SW846 8270D	11C6845	NUC4497-06	30.26	1.00	03/29/11 10:40	SAS	EPA 3550C
SW846 8270D	11C6845	NUC4497-06RE1	30.26	1.00	03/29/11 10:40	SAS	EPA 3550C
SW846 8270D	11C6845	NUC4497-07	30.35	1.00	03/29/11 10:40	SAS	EPA 3550C
Volatile Organic Compounds by EPA Method 8260B							
SW846 8260B	11C5756	NUC4497-01	4.60	5.00	03/21/11 14:15	CHH	EPA 5035
SW846 8260B	11C5756	NUC4497-02	6.16	5.00	03/22/11 09:45	CHH	EPA 5035
SW846 8260B	11C5756	NUC4497-03	5.78	5.00	03/22/11 15:00	CHH	EPA 5035
SW846 8260B	11C5756	NUC4497-04	4.86	5.00	03/23/11 10:45	CHH	EPA 5035
SW846 8260B	11C7723	NUC4497-04RE1	5.08	5.00	03/23/11 10:45	CHH	EPA 5035
SW846 8260B	11C7723	NUC4497-04RE2	4.13	5.00	03/23/11 10:45	CHH	EPA 5035
SW846 8260B	11C5756	NUC4497-05	5.47	5.00	03/23/11 15:15	CHH	EPA 5035
SW846 8260B	11C5756	NUC4497-06	6.39	5.00	03/24/11 11:15	CHH	EPA 5035
SW846 8260B	11C7723	NUC4497-06RE1	6.44	5.00	03/24/11 11:15	CHH	EPA 5035
SW846 8260B	11C5756	NUC4497-07	5.26	5.00	03/24/11 16:00	CHH	EPA 5035
SW846 8260B	11C7723	NUC4497-07RE1	4.74	5.00	03/24/11 16:00	CHH	EPA 5035
SW846 8260B	11C7723	NUC4497-07RE2	5.45	5.00	03/24/11 16:00	CHH	EPA 5035

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC4497
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/26/11 08:25

PROJECT QUALITY CONTROL DATA
Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
11C5756-BLK1						
Benzene	<0.00110		mg/kg wet	11C5756	11C5756-BLK1	03/30/11 12:19
Ethylbenzene	<0.000980		mg/kg wet	11C5756	11C5756-BLK1	03/30/11 12:19
Naphthalene	<0.00170		mg/kg wet	11C5756	11C5756-BLK1	03/30/11 12:19
Toluene	<0.000890		mg/kg wet	11C5756	11C5756-BLK1	03/30/11 12:19
Xylenes, total	<0.00190		mg/kg wet	11C5756	11C5756-BLK1	03/30/11 12:19
Surrogate: 1,2-Dichloroethane-d4	110%			11C5756	11C5756-BLK1	03/30/11 12:19
Surrogate: Dibromofluoromethane	102%			11C5756	11C5756-BLK1	03/30/11 12:19
Surrogate: Toluene-d8	91%			11C5756	11C5756-BLK1	03/30/11 12:19
Surrogate: 4-Bromofluorobenzene	98%			11C5756	11C5756-BLK1	03/30/11 12:19
11C5756-BLK2						
Benzene	<0.0550		mg/kg wet	11C5756	11C5756-BLK2	03/30/11 12:49
Ethylbenzene	<0.0490		mg/kg wet	11C5756	11C5756-BLK2	03/30/11 12:49
Naphthalene	<0.0850		mg/kg wet	11C5756	11C5756-BLK2	03/30/11 12:49
Toluene	<0.0445		mg/kg wet	11C5756	11C5756-BLK2	03/30/11 12:49
Xylenes, total	<0.0950		mg/kg wet	11C5756	11C5756-BLK2	03/30/11 12:49
Surrogate: 1,2-Dichloroethane-d4	106%			11C5756	11C5756-BLK2	03/30/11 12:49
Surrogate: Dibromofluoromethane	100%			11C5756	11C5756-BLK2	03/30/11 12:49
Surrogate: Toluene-d8	101%			11C5756	11C5756-BLK2	03/30/11 12:49
Surrogate: 4-Bromofluorobenzene	98%			11C5756	11C5756-BLK2	03/30/11 12:49
11C7723-BLK1						
Benzene	<0.00110		mg/kg wet	11C7723	11C7723-BLK1	03/31/11 12:07
Ethylbenzene	<0.000980		mg/kg wet	11C7723	11C7723-BLK1	03/31/11 12:07
Naphthalene	<0.00170		mg/kg wet	11C7723	11C7723-BLK1	03/31/11 12:07
Toluene	<0.000890		mg/kg wet	11C7723	11C7723-BLK1	03/31/11 12:07
Xylenes, total	<0.00190		mg/kg wet	11C7723	11C7723-BLK1	03/31/11 12:07
Surrogate: 1,2-Dichloroethane-d4	110%			11C7723	11C7723-BLK1	03/31/11 12:07
Surrogate: Dibromofluoromethane	101%			11C7723	11C7723-BLK1	03/31/11 12:07
Surrogate: Toluene-d8	101%			11C7723	11C7723-BLK1	03/31/11 12:07
Surrogate: 4-Bromofluorobenzene	99%			11C7723	11C7723-BLK1	03/31/11 12:07
11C7723-BLK2						
Benzene	<0.0550		mg/kg wet	11C7723	11C7723-BLK2	03/31/11 12:37
Ethylbenzene	<0.0490		mg/kg wet	11C7723	11C7723-BLK2	03/31/11 12:37
Naphthalene	<0.0850		mg/kg wet	11C7723	11C7723-BLK2	03/31/11 12:37
Toluene	<0.0445		mg/kg wet	11C7723	11C7723-BLK2	03/31/11 12:37
Xylenes, total	<0.0950		mg/kg wet	11C7723	11C7723-BLK2	03/31/11 12:37
Surrogate: 1,2-Dichloroethane-d4	104%			11C7723	11C7723-BLK2	03/31/11 12:37
Surrogate: Dibromofluoromethane	99%			11C7723	11C7723-BLK2	03/31/11 12:37
Surrogate: Toluene-d8	102%			11C7723	11C7723-BLK2	03/31/11 12:37
Surrogate: 4-Bromofluorobenzene	98%			11C7723	11C7723-BLK2	03/31/11 12:37

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC4497
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/26/11 08:25

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
Polyaromatic Hydrocarbons by EPA 8270D						
11C6845-BLK1						
Acenaphthene	<0.0140		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
Acenaphthylene	<0.0200		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
Anthracene	<0.00900		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
Benzo (a) anthracene	<0.0110		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
Benzo (a) pyrene	<0.00800		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
Benzo (b) fluoranthene	<0.0380		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
Benzo (g,h,i) perylene	<0.00900		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
Benzo (k) fluoranthene	<0.0370		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
Chrysene	<0.0310		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
Dibenz (a,h) anthracene	<0.0150		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
Fluoranthene	<0.0110		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
Fluorene	<0.0200		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
Indeno (1,2,3-cd) pyrene	<0.0310		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
Naphthalene	<0.0140		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
Phenanthrene	<0.0100		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
Pyrene	<0.0230		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
1-Methylnaphthalene	<0.0120		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
2-Methylnaphthalene	<0.0210		mg/kg wet	11C6845	11C6845-BLK1	03/30/11 10:32
Surrogate: Terphenyl-d14	67%			11C6845	11C6845-BLK1	03/30/11 10:32
Surrogate: 2-Fluorobiphenyl	66%			11C6845	11C6845-BLK1	03/30/11 10:32
Surrogate: Nitrobenzene-d5	62%			11C6845	11C6845-BLK1	03/30/11 10:32

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC4497
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/26/11 08:25

PROJECT QUALITY CONTROL DATA

Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	% Rec.	Analyzed Date/Time
General Chemistry Parameters										
11D0901-DUP1										
% Dry Solids	83.0	85.7		%	3	20	11D0901	NUC4454-22		04/06/11 12:29

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC4497
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/26/11 08:25

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
11C5756-BS1								
Benzene	50.0	53.0		ug/kg	106%	78 - 126	11C5756	03/30/11 10:49
Ethylbenzene	50.0	53.2		ug/kg	106%	79 - 130	11C5756	03/30/11 10:49
Naphthalene	50.0	53.4		ug/kg	107%	72 - 150	11C5756	03/30/11 10:49
Toluene	50.0	48.5		ug/kg	97%	76 - 126	11C5756	03/30/11 10:49
Xylenes, total	150	153		ug/kg	102%	80 - 130	11C5756	03/30/11 10:49
Surrogate: 1,2-Dichloroethane-d4	50.0	55.8			112%	67 - 138	11C5756	03/30/11 10:49
Surrogate: Dibromofluoromethane	50.0	51.4			103%	75 - 125	11C5756	03/30/11 10:49
Surrogate: Toluene-d8	50.0	45.8			92%	76 - 129	11C5756	03/30/11 10:49
Surrogate: 4-Bromofluorobenzene	50.0	50.0			100%	67 - 147	11C5756	03/30/11 10:49
11C7723-BS1								
Benzene	50.0	48.8		ug/kg	98%	78 - 126	11C7723	03/31/11 10:25
Ethylbenzene	50.0	49.5		ug/kg	99%	79 - 130	11C7723	03/31/11 10:25
Naphthalene	50.0	51.3		ug/kg	103%	72 - 150	11C7723	03/31/11 10:25
Toluene	50.0	49.0		ug/kg	98%	76 - 126	11C7723	03/31/11 10:25
Xylenes, total	150	147		ug/kg	98%	80 - 130	11C7723	03/31/11 10:25
Surrogate: 1,2-Dichloroethane-d4	50.0	56.5			113%	67 - 138	11C7723	03/31/11 10:25
Surrogate: Dibromofluoromethane	50.0	51.5			103%	75 - 125	11C7723	03/31/11 10:25
Surrogate: Toluene-d8	50.0	49.5			99%	76 - 129	11C7723	03/31/11 10:25
Surrogate: 4-Bromofluorobenzene	50.0	50.4			101%	67 - 147	11C7723	03/31/11 10:25
Polyaromatic Hydrocarbons by EPA 8270D								
11C6845-BS1								
Acenaphthene	1.67	1.19		mg/kg wet	72%	49 - 120	11C6845	03/30/11 10:51
Acenaphthylene	1.67	1.28		mg/kg wet	77%	52 - 120	11C6845	03/30/11 10:51
Anthracene	1.67	1.31		mg/kg wet	79%	58 - 120	11C6845	03/30/11 10:51
Benzo (a) anthracene	1.67	1.23		mg/kg wet	74%	57 - 120	11C6845	03/30/11 10:51
Benzo (a) pyrene	1.67	1.36		mg/kg wet	81%	55 - 120	11C6845	03/30/11 10:51
Benzo (b) fluoranthene	1.67	1.31		mg/kg wet	79%	51 - 123	11C6845	03/30/11 10:51
Benzo (g,h,i) perylene	1.67	1.43		mg/kg wet	86%	49 - 121	11C6845	03/30/11 10:51
Benzo (k) fluoranthene	1.67	1.24		mg/kg wet	74%	42 - 129	11C6845	03/30/11 10:51
Chrysene	1.67	1.18		mg/kg wet	71%	55 - 120	11C6845	03/30/11 10:51
Dibenz (a,h) anthracene	1.67	1.46		mg/kg wet	88%	50 - 123	11C6845	03/30/11 10:51
Fluoranthene	1.67	1.33		mg/kg wet	80%	58 - 120	11C6845	03/30/11 10:51
Fluorene	1.67	1.29		mg/kg wet	77%	54 - 120	11C6845	03/30/11 10:51
Indeno (1,2,3-cd) pyrene	1.67	1.50		mg/kg wet	90%	50 - 122	11C6845	03/30/11 10:51
Naphthalene	1.67	1.30		mg/kg wet	78%	28 - 120	11C6845	03/30/11 10:51
Phenanthrene	1.67	1.28		mg/kg wet	77%	56 - 120	11C6845	03/30/11 10:51
Pyrene	1.67	1.14		mg/kg wet	68%	56 - 120	11C6845	03/30/11 10:51
1-Methylnaphthalene	1.67	1.16		mg/kg wet	69%	36 - 120	11C6845	03/30/11 10:51
2-Methylnaphthalene	1.67	1.25		mg/kg wet	75%	36 - 120	11C6845	03/30/11 10:51

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC4497
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/26/11 08:25

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8270D								
11C6845-BS1								
Surrogate: Terphenyl-d14	1.67	1.01			61%	18 - 120	11C6845	03/30/11 10:51
Surrogate: 2-Fluorobiphenyl	1.67	1.11			67%	14 - 120	11C6845	03/30/11 10:51
Surrogate: Nitrobenzene-d5	1.67	1.13			68%	17 - 120	11C6845	03/30/11 10:51

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC4497
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/26/11 08:25

PROJECT QUALITY CONTROL DATA
Matrix Spike

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
11C5756-MS1										
Benzene	0.00806	0.0505		mg/kg wet	0.0470	90%	42 - 141	11C5756	NUC3836-05	03/30/11 20:54
Ethylbenzene	0.00176	0.0461		mg/kg wet	0.0470	94%	21 - 165	11C5756	NUC3836-05	03/30/11 20:54
Naphthalene	ND	0.0406		mg/kg wet	0.0470	86%	10 - 160	11C5756	NUC3836-05	03/30/11 20:54
Toluene	0.0169	0.0574		mg/kg wet	0.0470	86%	45 - 145	11C5756	NUC3836-05	03/30/11 20:54
Xylenes, total	0.0219	0.152		mg/kg wet	0.141	92%	31 - 159	11C5756	NUC3836-05	03/30/11 20:54
Surrogate: 1,2-Dichloroethane-d4		57.9		ug/kg	50.0	116%	67 - 138	11C5756	NUC3836-05	03/30/11 20:54
Surrogate: Dibromofluoromethane		51.0		ug/kg	50.0	102%	75 - 125	11C5756	NUC3836-05	03/30/11 20:54
Surrogate: Toluene-d8		47.7		ug/kg	50.0	95%	76 - 129	11C5756	NUC3836-05	03/30/11 20:54
Surrogate: 4-Bromofluorobenzene		52.8		ug/kg	50.0	106%	67 - 147	11C5756	NUC3836-05	03/30/11 20:54
11C7723-MS1										
Benzene	ND	3.28		mg/kg dry	3.00	109%	42 - 141	11C7723	NUC4497-06R E1	03/31/11 19:04
Ethylbenzene	0.125	3.68		mg/kg dry	3.00	118%	21 - 165	11C7723	NUC4497-06R E1	03/31/11 19:04
Naphthalene	1.02	4.16		mg/kg dry	3.00	105%	10 - 160	11C7723	NUC4497-06R E1	03/31/11 19:04
Toluene	ND	3.37		mg/kg dry	3.00	112%	45 - 145	11C7723	NUC4497-06R E1	03/31/11 19:04
Xylenes, total	0.658	11.3		mg/kg dry	9.01	118%	31 - 159	11C7723	NUC4497-06R E1	03/31/11 19:04
Surrogate: 1,2-Dichloroethane-d4		51.0		ug/kg	50.0	102%	67 - 138	11C7723	NUC4497-06R E1	03/31/11 19:04
Surrogate: Dibromofluoromethane		48.5		ug/kg	50.0	97%	75 - 125	11C7723	NUC4497-06R E1	03/31/11 19:04
Surrogate: Toluene-d8		50.6		ug/kg	50.0	101%	76 - 129	11C7723	NUC4497-06R E1	03/31/11 19:04
Surrogate: 4-Bromofluorobenzene		49.2		ug/kg	50.0	98%	67 - 147	11C7723	NUC4497-06R E1	03/31/11 19:04
Polyaromatic Hydrocarbons by EPA 8270D										
11C6845-MS1										
Acenaphthene	ND	1.39		mg/kg dry	1.96	71%	42 - 120	11C6845	NUC4453-01	03/30/11 11:10
Acenaphthylene	ND	1.45		mg/kg dry	1.96	74%	32 - 120	11C6845	NUC4453-01	03/30/11 11:10
Anthracene	ND	1.55		mg/kg dry	1.96	79%	10 - 200	11C6845	NUC4453-01	03/30/11 11:10
Benzo (a) anthracene	ND	1.37		mg/kg dry	1.96	70%	41 - 120	11C6845	NUC4453-01	03/30/11 11:10
Benzo (a) pyrene	ND	1.46		mg/kg dry	1.96	75%	33 - 121	11C6845	NUC4453-01	03/30/11 11:10
Benzo (b) fluoranthene	ND	1.46		mg/kg dry	1.96	74%	26 - 137	11C6845	NUC4453-01	03/30/11 11:10
Benzo (g,h,i) perylene	ND	1.51		mg/kg dry	1.96	77%	21 - 124	11C6845	NUC4453-01	03/30/11 11:10
Benzo (k) fluoranthene	ND	1.38		mg/kg dry	1.96	70%	14 - 140	11C6845	NUC4453-01	03/30/11 11:10
Chrysene	ND	1.34		mg/kg dry	1.96	68%	28 - 123	11C6845	NUC4453-01	03/30/11 11:10
Dibenz (a,h) anthracene	ND	1.58		mg/kg dry	1.96	80%	25 - 127	11C6845	NUC4453-01	03/30/11 11:10

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC4497
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/26/11 08:25

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 8270D										
11C6845-MS1										
Fluoranthene	ND	1.47		mg/kg dry	1.96	75%	38 - 120	11C6845	NUC4453-01	03/30/11 11:10
Fluorene	ND	1.45		mg/kg dry	1.96	74%	41 - 120	11C6845	NUC4453-01	03/30/11 11:10
Indeno (1,2,3-cd) pyrene	ND	1.59		mg/kg dry	1.96	81%	25 - 123	11C6845	NUC4453-01	03/30/11 11:10
Naphthalene	ND	1.48		mg/kg dry	1.96	75%	25 - 120	11C6845	NUC4453-01	03/30/11 11:10
Phenanthrene	ND	1.49		mg/kg dry	1.96	76%	37 - 120	11C6845	NUC4453-01	03/30/11 11:10
Pyrene	ND	1.27		mg/kg dry	1.96	65%	29 - 125	11C6845	NUC4453-01	03/30/11 11:10
1-Methylnaphthalene	ND	1.26		mg/kg dry	1.96	64%	19 - 120	11C6845	NUC4453-01	03/30/11 11:10
2-Methylnaphthalene	ND	1.38		mg/kg dry	1.96	70%	11 - 120	11C6845	NUC4453-01	03/30/11 11:10
Surrogate: Terphenyl-d14		1.02		mg/kg dry	1.96	52%	18 - 120	11C6845	NUC4453-01	03/30/11 11:10
Surrogate: 2-Fluorobiphenyl		1.23		mg/kg dry	1.96	63%	14 - 120	11C6845	NUC4453-01	03/30/11 11:10
Surrogate: Nitrobenzene-d5		1.30		mg/kg dry	1.96	66%	17 - 120	11C6845	NUC4453-01	03/30/11 11:10

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC4497
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/26/11 08:25

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
Volatile Organic Compounds by EPA Method 8260B												
11C5756-MSD1												
Benzene	0.00806	0.0506		mg/kg wet	0.0473	90%	42 - 141	0.2	50	11C5756	NUC3836-05	03/30/11 21:24
Ethylbenzene	0.00176	0.0464		mg/kg wet	0.0473	94%	21 - 165	0.7	50	11C5756	NUC3836-05	03/30/11 21:24
Naphthalene	ND	0.0342		mg/kg wet	0.0473	72%	10 - 160	17	50	11C5756	NUC3836-05	03/30/11 21:24
Toluene	0.0169	0.0620		mg/kg wet	0.0473	95%	45 - 145	8	50	11C5756	NUC3836-05	03/30/11 21:24
Xylenes, total	0.0219	0.156		mg/kg wet	0.142	94%	31 - 159	2	50	11C5756	NUC3836-05	03/30/11 21:24
Surrogate: 1,2-Dichloroethane-d4		56.2		ug/kg	50.0	112%	67 - 138			11C5756	NUC3836-05	03/30/11 21:24
Surrogate: Dibromofluoromethane		51.4		ug/kg	50.0	103%	75 - 125			11C5756	NUC3836-05	03/30/11 21:24
Surrogate: Toluene-d8		51.9		ug/kg	50.0	104%	76 - 129			11C5756	NUC3836-05	03/30/11 21:24
Surrogate: 4-Bromofluorobenzene		52.6		ug/kg	50.0	105%	67 - 147			11C5756	NUC3836-05	03/30/11 21:24
11C7723-MSD1												
Benzene	ND	3.28		mg/kg dry	3.00	109%	42 - 141	0.05	50	11C7723	NUC4497-06R E1	03/31/11 19:34
Ethylbenzene	0.125	3.71		mg/kg dry	3.00	119%	21 - 165	0.9	50	11C7723	NUC4497-06R E1	03/31/11 19:34
Naphthalene	1.02	4.47		mg/kg dry	3.00	115%	10 - 160	7	50	11C7723	NUC4497-06R E1	03/31/11 19:34
Toluene	ND	3.42		mg/kg dry	3.00	114%	45 - 145	2	50	11C7723	NUC4497-06R E1	03/31/11 19:34
Xylenes, total	0.658	11.4		mg/kg dry	9.01	119%	31 - 159	1	50	11C7723	NUC4497-06R E1	03/31/11 19:34
Surrogate: 1,2-Dichloroethane-d4		51.9		ug/kg	50.0	104%	67 - 138			11C7723	NUC4497-06R E1	03/31/11 19:34
Surrogate: Dibromofluoromethane		48.0		ug/kg	50.0	96%	75 - 125			11C7723	NUC4497-06R E1	03/31/11 19:34
Surrogate: Toluene-d8		50.6		ug/kg	50.0	101%	76 - 129			11C7723	NUC4497-06R E1	03/31/11 19:34
Surrogate: 4-Bromofluorobenzene		48.3		ug/kg	50.0	97%	67 - 147			11C7723	NUC4497-06R E1	03/31/11 19:34
Polyaromatic Hydrocarbons by EPA 8270D												
11C6845-MSD1												
Acenaphthene	ND	1.34		mg/kg dry	1.96	68%	42 - 120	3	40	11C6845	NUC4453-01	03/30/11 11:28
Acenaphthylene	ND	1.43		mg/kg dry	1.96	73%	32 - 120	2	30	11C6845	NUC4453-01	03/30/11 11:28
Anthracene	ND	1.54		mg/kg dry	1.96	78%	10 - 200	1	50	11C6845	NUC4453-01	03/30/11 11:28
Benzo (a) anthracene	ND	1.33		mg/kg dry	1.96	68%	41 - 120	2	30	11C6845	NUC4453-01	03/30/11 11:28
Benzo (a) pyrene	ND	1.43		mg/kg dry	1.96	73%	33 - 121	2	33	11C6845	NUC4453-01	03/30/11 11:28
Benzo (b) fluoranthene	ND	1.39		mg/kg dry	1.96	71%	26 - 137	5	42	11C6845	NUC4453-01	03/30/11 11:28
Benzo (g,h,i) perylene	ND	1.35		mg/kg dry	1.96	69%	21 - 124	11	32	11C6845	NUC4453-01	03/30/11 11:28
Benzo (k) fluoranthene	ND	1.33		mg/kg dry	1.96	68%	14 - 140	4	39	11C6845	NUC4453-01	03/30/11 11:28
Chrysene	ND	1.28		mg/kg dry	1.96	66%	28 - 123	4	34	11C6845	NUC4453-01	03/30/11 11:28
Dibenz (a,h) anthracene	ND	1.38		mg/kg dry	1.96	70%	25 - 127	14	31	11C6845	NUC4453-01	03/30/11 11:28
Fluoranthene	ND	1.53		mg/kg dry	1.96	78%	38 - 120	4	35	11C6845	NUC4453-01	03/30/11 11:28
Fluorene	ND	1.37		mg/kg dry	1.96	70%	41 - 120	6	37	11C6845	NUC4453-01	03/30/11 11:28
Indeno (1,2,3-cd) pyrene	ND	1.42		mg/kg dry	1.96	73%	25 - 123	11	32	11C6845	NUC4453-01	03/30/11 11:28

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC4497
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/26/11 08:25

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8270D												
11C6845-MSD1												
Naphthalene	ND	1.42		mg/kg dry	1.96	72%	25 - 120	4	42	11C6845	NUC4453-01	03/30/11 11:28
Phenanthrene	ND	1.42		mg/kg dry	1.96	72%	37 - 120	5	32	11C6845	NUC4453-01	03/30/11 11:28
Pyrene	ND	1.25		mg/kg dry	1.96	64%	29 - 125	2	40	11C6845	NUC4453-01	03/30/11 11:28
1-Methylnaphthalene	ND	1.25		mg/kg dry	1.96	64%	19 - 120	1	45	11C6845	NUC4453-01	03/30/11 11:28
2-Methylnaphthalene	ND	1.36		mg/kg dry	1.96	69%	11 - 120	1	50	11C6845	NUC4453-01	03/30/11 11:28
Surrogate: Terphenyl-d14		0.994		mg/kg dry	1.96	51%	18 - 120			11C6845	NUC4453-01	03/30/11 11:28
Surrogate: 2-Fluorobiphenyl		1.21		mg/kg dry	1.96	62%	14 - 120			11C6845	NUC4453-01	03/30/11 11:28
Surrogate: Nitrobenzene-d5		1.23		mg/kg dry	1.96	63%	17 - 120			11C6845	NUC4453-01	03/30/11 11:28

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC4497
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/26/11 08:25

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			

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC4497
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/26/11 08:25

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.
RL1	Reporting limit raised due to sample matrix effects.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
ND	Not detected at the reporting limit (or method detection limit if shown)

METHOD MODIFICATION NOTES

NUC4497
04/11/11 23:59

TestAmerica

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

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

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring? Yes ____ No ____
Enforcement Action? Yes ____ No ____

Client Name/Account #: EEG # 2449
Address: 10179 Highway 78
City/State/Zip: Ladson, SC 29456
Project Manager: Tom McElwee email: mcelwee@eeginc.net
Telephone Number: 843.412.2097 Fax No.: (843) 879-0401
Sampler Name: (Print) Prath Shaw
Sampler Signature:

Site State: SC
PO#: 1027
TA Quote #:
Project ID: Laurel Bay Housing Project
Project #:

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO_3 (Red Label)	HCl (Blue Label) Sodium Bisulfate	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass (Yellow Label)	None (Black Label)	Other (Specify) Methanol	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: BTEX + Napth - 8260B	PAH - 8270D										RUSH TAT (Pre-Schedule)	Standard TAT	Fax Results	Send QC with report
1010 Foxglove	3/21/11	1415	5	X					2				2	1					X		X	X							NUC4497-01					
1071 Heather	3/22/11	0945	5	X					2				2	1					X		X	X								02				
1068 Gardenia	3/22/11	1500	5	X					2				2	1					X		X	X								03				
1039 Iris	3/23/11	1045	5	X					2				2	1					X		X	X								04				
1100 Iris	3/23/11	1515	5	X					2				2	1					X		X	X								05				
1101 Iris	3/24/11	1115	5	X					2				2	1					X		X	X								06				
1105 Iris	3/24/11	1600	5	X					2				2	1					X		X	X								07				

Special Instructions:

Method of Shipment: FEDEX

Relinquished by:	Date	Time	Received by:	Date	Time
	3/25/11	0900	FedEx		
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
				3/26/11	0825

Laboratory Comments:
Temperature Upon Receipt: 1.6°C
VOCs Free of Headspace? Y N

ATTACHMENT A

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

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

3. Generator's Mailing Address:
MCAS, BEAUFORT
LAUREL BAY HOUSING
BEAUFORT, SC 29907
4. Generator's Phone 843-228-6461

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

A. Manifest Number: WMNA 00316809
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 No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. HEATING OIL TANKS FILLED WITH SAND WM Profile # 102655SC		20Y	8.80 TON		
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
UST's from 1) 1100 IRIS ✓ 2) 1101 IRIS ✓ 3) 1105 IRIS ✓ 4) 1372 DOVE ✓ 5) 1364 CARDINAL - 21 6) 1430 DOVE ✓

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	Signature "On behalf of"	Month	Day	Year
Charles H. Herron	Charles H. Herron	5	11	11

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
JAMES Baldwin	James Baldwin	5	12	11

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

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

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

Printed Name	Signature	Month	Day	Year
Toni Cofield	Toni Cofield	5	12	11

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

Appendix C
Laboratory Analytical Report - Groundwater

CDM - AECOM
Multimedia Joint Venture

Volatile Organic Compounds by GC/MS

Client: **AECOM - Resolution Consultants**
Laboratory ID: **QL02016-016**
Description: **BEALB1101TW02WG20151202**
Matrix: **Aqueous**
Date Sampled: **12/02/2015 1210**
Date Received: **12/03/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/09/2015 1334	ALL		91718

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
Benzene	71-43-2	8260B	0.45	U	5.0	0.45	0.21	ug/L	1
Ethylbenzene	100-41-4	8260B	0.51	U	5.0	0.51	0.21	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**0.16**	**J**	**5.0**	0.96	**0.14**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**1.0**	**J**	**5.0**	0.48	**0.24**	**ug/L**	**1**
Xylenes (total)	1330-20-7	8260B	0.57	U	5.0	0.57	0.32	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		96	75-120
1,2-Dichloroethane-d4		97	70-120
Toluene-d8		102	85-120
Dibromofluoromethane		92	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

Semivolatile Organic Compounds by GC/MS (SIM)

Client: **AECOM - Resolution Consultants**
Laboratory ID: **QL02016-016**
Description: **BEALB1101TW02WG20151202**
Matrix: **Aqueous**
Date Sampled: **12/02/2015 1210**
Date Received: **12/03/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D (SIM)	1	12/10/2015 1747	DRB1	12/06/2015 1619	91435

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

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Methylnaphthalene-d10		66	15-139
Fluoranthene-d10		61	23-154

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

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

Appendix D
Regulatory Correspondence

CDM - AECOM
Multimedia Joint Venture

D H E C
PROMOTE PROTECT PROSPER
Catherine E. Heigel, Director
Promoting and protecting the health of the public and the environment

July 1, 2015

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

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

Dear Mr. Drawdy,

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

The Department has reviewed the referenced assessment reports. The submitted analytical results indicate that petroleum constituents are above established Risk-Based Screening Levels and additional investigation is warranted. Specifically, the Department requests that a groundwater sampling proposal be generated to determine if there has been an impact to groundwater at this site.

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

If you have any questions, please contact me at kriegkm@dhec.sc.gov or 803-898-0255.

Sincerely,

Kent M. Krieg

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)

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

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

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

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

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

D H E C

PROMOTE PROTECT PROSPER

13 August 2008

Beaufort Military Complex Family Housing
ATTN: Kyle Broadfoot
1510 Laurel Bay Blvd.
Beaufort, SC 29906

Re: MCAS – Laurel Bay Housing – 1101 Iris
Site ID # 03979
UST Closure Reports received 31 January 2008
No Further Action
Beaufort County

Dear Mr. Broadfoot:

The Department has reviewed the referenced closure report. Based upon the geotechnical data in the referenced report, the soil samples are below risk based screening levels.

As the Department did not specifically request this data, and the work conducted at this site received no prior review by the Department, we cannot provide any comments on the completeness of the work performed or the overall environmental conditions of the site. Based on the information and analytical data submitted, there is no evidence to indicate that a violation of the Pollution Control Act has occurred. Consequently, no investigation will be required at this time. Please note, this statement pertains only to the data submitted and does not apply to other areas of the site and/or any other potential regulatory violations. Further, the Department retains the right to request further investigation if deemed necessary.

Should you have any questions, please contact me at 803-898-3553 (office phone), 803-898-2893 (fax) or bishopma@dhec.sc.gov.

Sincerely,

Michael Bishop, Hydrogeologist
Groundwater Quality Section
Bureau of Water

B. Thomas Knight, Manager
Groundwater Quality Section
Bureau of Water

cc: Region 8 District EQC (via pdf)
MCAS, Commanding Officer, Attention: S-4 NREAO (William Drawdy) (via pdf)
Technical File (pdf)

D H E C
PROMOTE PROTECT PROSPER

Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

Division of Waste Management
Bureau of Land and Waste Management

June 8, 2016

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

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

Dear Mr. Drawdy,

The South Carolina Department of Health and Environmental Control (the Department) received groundwater data in the above referenced Groundwater Investigation Report for the attached addresses on May 2, 2016. The regulatory authority for the investigation and cleanup of releases from these tank systems is the South Carolina Pollution Control Act (S.C. Code Ann. §48-1-10 et seq., as amended).

Per the Department's request, groundwater samples were collected from the attached referenced addresses. The Department reviewed the groundwater data and previous investigations and it agrees with the conclusions and recommendations included in the document. To further assess the impact to groundwater, permanent wells should be installed at the 15 stated addresses. For the remaining 80 addresses, there is no indication of contamination on the property and therefore no further investigation is required at this time.

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

If you have any questions, please contact me at petruslb@dhec.sc.gov 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-November and December 2015
Specific Property Recommendations
Dated June 8, 2016

Draft Final Initial Groundwater Investigation Report for (95 addresses)

Permanent Monitoring Well Investigation recommendation (15 addresses)	
130 Banyan Drive	473 Dogwood Drive
256 Beech Street	747 Blue Bell Lane
285 Birch Drive	749 Blue Bell Lane
292 Birch Drive	775 Althea Street
330 Ash Street	1034 Foxglove Street
331 Ash Street	1104 Iris Lane
335 Ash Street	1124 Iris Lane
342 Ash Street	

No Further Action recommendation (80 addresses)	
118 Banyan Drive	644 Dahlia Drive
126 Banyan Drive	646 Dahlia Drive
127 Banyan Drive	665 Camellia Drive
141 Laurel Bay Blvd	699 Abelia Street
151 Laurel Bay Blvd	744 Blue Bell Lane
224 Cypress Street	745 Blue Bell Lane
227 Cypress Street	751 Blue Bell Lane
257 Beech Street	762 Althea Street
264 Beech Street	765 Althea Street
265 Beech Street	766 Althea Street
275 Birch Drive	767 Althea Street
277 Birch Drive	768 Althea Street
297 Birch Drive	769 Althea Street
301 Ash Street	819 Azalea Drive
306 Ash Street	840 Azalea Drive
310 Ash Street	878 Cobia Drive
313 Ash Street	891 Cobia Drive
315 Ash Street	913 Barracuda Drive
316 Ash Street	916 Barracuda Drive
319 Ash Street	923 Wren Lane
320 Ash Street	1004 Bobwhite Drive
321 Ash Street	1022 Foxglove Street
329 Ash Street	1031 Foxglove Street
332 Ash Street	1061 Gardenia Drive
333 Ash Street	1064 Gardenia Drive
341 Ash Street	1067 Gardenia Drive
347 Ash Street	1077 Heather Street
378 Aspen Street	1081 Heather Street
379 Aspen Street	1101 Iris Lane
382 Aspen Street	1105 Iris Lane
394 Acorn Street	1142 Iris Lane
400 Elderberry Drive	1146 Iris Lane
432 Elderberry Drive	1218 Cardinal Lane
436 Elderberry Drive	1240 Dove Lane
482 Laurel Bay Blvd	1266 Dove Lane
517 Laurel Bay Blvd	1292 Eagle Lane
586 Aster Street	1299 Eagle Lane
632 Dahlia Drive	1302 Eagle Lane
639 Dahlia Drive	1336 Albatross Drive
643 Dahlia Drive	1351 Cardinal Lane