

SUMMARY REPORT  
65 DOGWOOD DRIVE (FORMERLY 468 DOGWOOD DRIVE)  
LAUREL BAY MILITARY HOUSING AREA  
MARINE CORPS AIR STATION BEAUFORT  
BEAUFORT, SC

Revision: 0  
Prepared for:

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

and



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

**JUNE 2021**

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Prepared by:



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

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## List of Acronyms

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

## 1.0 INTRODUCTION

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

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

This report summarizes the results the environmental investigation activities associated with the storage of home heating oil and the potential release of petroleum constituents at the referenced property. Based on the results of the investigation, a No Further Action (NFA) determination has been made by the South Carolina Department of Health and Environmental Control (SCDHEC) for 65 Dogwood Drive (Formerly 468 Dogwood Drive). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

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

### 1.1 Background Information

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

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

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

In 2007, MCAS Beaufort began a voluntary program to remove the unregulated, residential heating oil 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, February 2016) and the *Underground Storage Tank Assessment Instructions for Permanent Closure and Change-In-Service*, (SCDHEC, 2018), are as follows:

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

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

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

The results of the soil sampling at each former UST location were used to determine if a potential for groundwater contamination exists (i.e., soil results greater than RBSLs) and subsequently to select properties for follow-up initial groundwater assessment (IGWA) sampling. The IGWA sampling process utilizes temporary groundwater sampling points that are typically installed and sampled within the same day. The intent of the sampling point is to determine the presence or absence of the aforementioned COPCs in groundwater and identify whether former UST locations may require additional delineation of COPCs in groundwater. These sampling points are not subjected to the same installation standards as permanent monitoring wells and, as such; the data obtained from the IGWA wells can sometimes be biased high and is considered preliminary data. In order to confirm the presence of any impact to groundwater, a permanent well is installed where IGWA sampling has indicated the presence of COPCs is in excess of the SCDHEC RBSLs for groundwater. If COPCs are found to be present in the permanent well, additional permanent wells are installed to delineate the extent of impact to groundwater and a sampling program is established. Groundwater analytical results from permanent wells 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 65 Dogwood Drive (Formerly 468 Dogwood Drive). The sampling activities at 65 Dogwood Drive (Formerly 468 Dogwood Drive) comprised a soil investigation, IGWA sampling and installation and sampling of a permanent well. Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 468 Dogwood Drive* (MCAS Beaufort, 2013). 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 – May and June 2015* (Resolution Consultants, 2015). The laboratory report that includes the pertinent IGWA analytical results for this site is presented in Appendix C. Details regarding the permanent well

installation and sampling activities at this site are provided in the *Groundwater Assessment Report – June and July 2016* (Resolution Consultants, 2016). The laboratory report that includes the pertinent groundwater analytical results for this site is presented in Appendix D.

## 2.1 UST Removal and Soil Sampling

On December 14, 2012, a single 280 gallon heating oil UST was removed from the rear patio area at 65 Dogwood Drive (Formerly 468 Dogwood Drive). The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). The UST was removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of the UST was 3'9" bgs and a single soil sample was collected from that depth. The sample was collected from the fill port side of the former UST to represent a worst case scenario.

Following UST removal, a soil sample was collected from the base of the excavation and shipped to an offsite laboratory for analysis of the petroleum COPCs. Sampling was performed in accordance with applicable South Carolina regulation R.61-92, Part 280 (SCDHEC, 2017) and assessment guidelines.

## 2.2 Soil Analytical Results

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

The soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form (Appendix B). The results of the soil sampling at the former UST location were used by MCAS Beaufort, in consultation with SCDHEC, to determine a path forward (i.e., additional sampling or NFA) for the property. The soil results collected from 65 Dogwood Drive (Formerly 468 Dogwood Drive) were greater than the SCDHEC RBSLs, which indicated further investigation was required. In a letter dated May 15, 2014, SCDHEC requested an IGWA for 65 Dogwood Drive (Formerly 468 Dogwood Drive) to determine if the groundwater was impacted by petroleum COPCs. SCDHEC's request letter is provided in Appendix E.



### 2.3 Initial Groundwater Sampling

On June 1, 2015, a temporary monitoring well was installed at 65 Dogwood Drive (Formerly 468 Dogwood Drive), in accordance with the South Carolina Well Standards and Regulations (R.61-71.H-I, updated June 24, 2016). In order to provide data that can be used to determine whether COPCs are migrating to underlying groundwater, the monitoring well was placed in the same general location as the former heating oil UST. The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). Further details are provided in the *Initial Groundwater Investigation Report – May and June 2015* (Resolution Consultants, 2015).

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

### 2.4 Initial 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 65 Dogwood Drive (Formerly 468 Dogwood Drive) were greater than the SCDHEC RBSLs and the site specific groundwater VISLs (Table 2), which indicated further investigation was required. In a letter dated February 22, 2016, SCDHEC requested a permanent well be installed for 65 Dogwood Drive (Formerly 468 Dogwood Drive) to confirm the impact to groundwater detected in the temporary well sample. SCDHEC's request letter is provided in Appendix E.

### 2.5 Permanent Well Groundwater Sampling

On July 5, 2016, a permanent monitoring well was installed at 65 Dogwood Drive (Formerly 468 Dogwood Drive), in accordance with the South Carolina Well Standards and Regulations (R.61-71.H-I, updated June 24, 2016). In order to provide data that can be used to determine whether COPCs are migrating to underlying groundwater, the monitoring well was placed in the

same general location as the former heating oil UST and the IGWA sample location. The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). Further details are provided in the *Groundwater Assessment Report – June and July 2016* (Resolution Consultants, 2016).

The sampling strategy for this phase of the investigation required a one-time sampling event of the permanent 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. Field forms are provided in the *Groundwater Assessment Report – June and July 2016* (Resolution Consultants, 2016).

## 2.6 Permanent Well Groundwater Analytical Results

A summary of the laboratory analytical results and SCDHEC RBSLs is presented in Table 3. A copy of the laboratory analytical data report is included in Appendix D.

The groundwater results collected from 65 Dogwood Drive (Formerly 468 Dogwood Drive) were less than the SCDHEC RBSLs and the site specific groundwater VISLs (Table 3), which indicated that the groundwater was not impacted by COPCs associated with the former UST at concentrations that present a potential risk to human health and the environment.

## 3.0 PROPERTY STATUS

Based on the analytical results for groundwater collected from the permanent monitoring well, SCDHEC made the determination that NFA was required for 65 Dogwood Drive (Formerly 468 Dogwood Drive). This NFA determination was obtained in a letter dated March 9, 2017. SCDHEC's NFA letter is provided in Appendix E.

## 4.0 REFERENCES

Marine Corps Air Station Beaufort, 2013. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 468 Dogwood Drive, Laurel Bay Military Housing Area*, April 2013.

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

Resolution Consultants, 2016. *Groundwater Assessment Report – June and July 2016 for Laurel Bay Military Housing Area, Multiple Properties, Marine Corps Air Station Beaufort, Beaufort, South Carolina*, December 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  
65 Dogwood Drive (Formerly 468 Dogwood Drive)  
Laurel Bay Military Housing Area  
Marine Corps Air Station Beaufort  
Beaufort, South Carolina

Constituent	SCDHEC RBSLs <sup>(1)</sup>	Results Sample Collected 12/14/12
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)		
Benzene	0.003	0.000931
Ethylbenzene	1.15	0.0661
Naphthalene	0.036	<b>1.63</b>
Toluene	0.627	ND
Xylenes, Total	13.01	0.0155
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (mg/kg)		
Benzo(a)anthracene	0.066	<b>0.0683</b>
Benzo(b)fluoranthene	0.066	ND
Benzo(k)fluoranthene	0.066	ND
Chrysene	0.066	0.0508
Dibenz(a,h)anthracene	0.066	ND

Notes:

<sup>(1)</sup> South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 1.1 (SCDHEC, February 2011).

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 - Initial Groundwater**  
**65 Dogwood Drive (Formerly 468 Dogwood Drive)**  
**Laurel Bay Military Housing Area**  
**Marine Corps Air Station Beaufort**  
**Beaufort, South Carolina**

Constituent	SCDHEC RBSLs <sup>(1)</sup>	Site-Specific Groundwater VISLs (µg/L) <sup>(2)</sup>	Results Sample Collected 06/02/15
<b>Volatile Organic Compounds Analyzed by EPA Method 8260B (µg/L)</b>			
Benzene	5	16.24	<b>0.26</b>
Ethylbenzene	700	45.95	<b>4.4</b>
Naphthalene	25	29.33	<b>42</b>
Toluene	1000	105,445	ND
Xylenes, Total	10,000	2,133	ND
<b>Semivolatile Organic Compounds Analyzed by EPA Method 8270D (µg/L)</b>			
Benzo(a)anthracene	10	NA	<b>0.17</b>
Benzo(b)fluoranthene	10	NA	<b>0.034</b>
Benzo(k)fluoranthene	10	NA	ND
Chrysene	10	NA	<b>0.17</b>
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 3.0 (SCDHEC, May 2015).

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

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

JE - Johnson & Ettinger

NA - not applicable

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

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

µg/L - micrograms per liter

VISL - Vapor Intrusion Screening Level

**Table 3**  
**Laboratory Analytical Results - Permanent Well Groundwater**  
**65 Dogwood Drive (Formerly 468 Dogwood Drive)**  
**Laurel Bay Military Housing Area**  
**Marine Corps Air Station Beaufort**  
**Beaufort, South Carolina**

Constituent	SCDHEC RBSLs <sup>(1)</sup>	Site-Specific Groundwater VISLs (µg/L) <sup>(2)</sup>	Results Sample Collected 07/25/16
<b>Volatile Organic Compounds Analyzed by EPA Method 8260B (µg/L)</b>			
Benzene	5	16.24	ND
Ethylbenzene	700	45.95	ND
Naphthalene	25	29.33	<b>1.3</b>
Toluene	1000	105,445	ND
Xylenes, Total	10,000	2,133	ND
<b>Semivolatile Organic Compounds Analyzed by EPA Method 8270D (µg/L)</b>			
Benzo(a)anthracene	10	NA	ND
Benzo(b)fluoranthene	10	NA	ND
Benzo(k)fluoranthene	10	NA	ND
Chrysene	10	NA	ND
Dibenz(a,h)anthracene	10	NA	ND

**Notes:**

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

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

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

JE - Johnson & Ettinger

NA - not applicable

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

RBSL - Risk-Based Screening Level

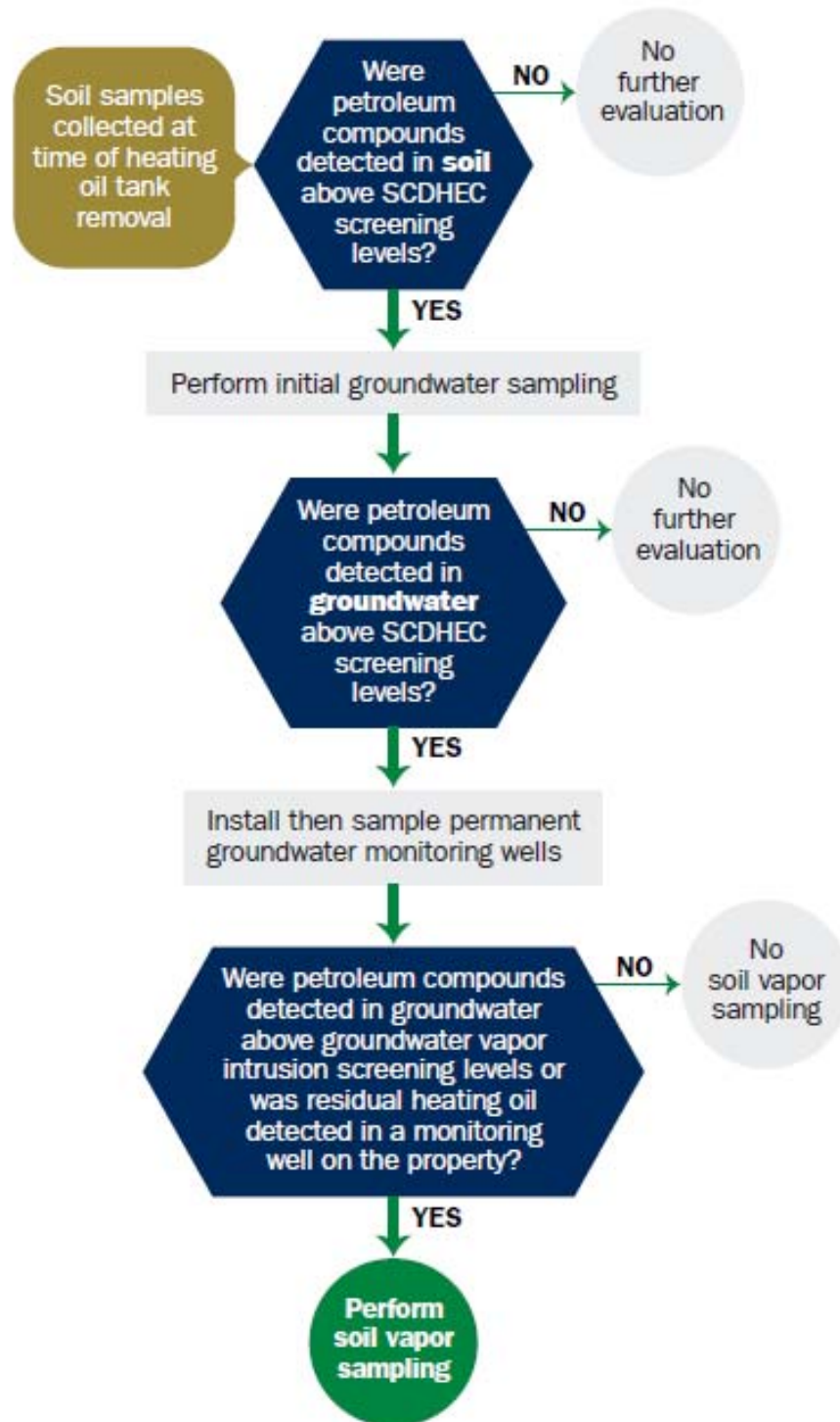
SCDHEC - South Carolina Department Of Health and Environmental Control

µg/L - micrograms per liter

VISL - Vapor Intrusion Screening Level

Appendix A  
Multi-Media Selection Process for LBMH



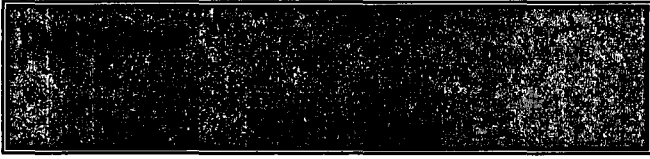


Appendix A - Multi-Media Selection Process for LBMH

Appendix B  
UST Assessment Report

## Attachment 1

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



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	
468 Dogwood Drive, Laurel Bay Military Housing Area	
Street Address or State Road (as applicable)	
Beaufort,	Beaufort
City	County

Attachment 2

### III. INSURANCE INFORMATION

#### Insurance Statement

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

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

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

My policy provider is: \_\_\_\_\_

The policy deductible is: \_\_\_\_\_

The policy limit is: \_\_\_\_\_

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

### IV. REQUEST FOR SUPERB FUNDING

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

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

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

\_\_\_\_\_  
Name (Type or print.)

\_\_\_\_\_  
Signature

#### To be completed by Notary Public:

Sworn before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

\_\_\_\_\_  
(Name)

Notary Public for the state of \_\_\_\_\_  
*Please affix State seal if you are commissioned outside South Carolina*

## VI. UST INFORMATION

- A. Product...(ex. Gas, Kerosene).....
- B. Capacity...(ex. 1k, 2k).....
- C. Age.....
- D. Construction Material...(ex. Steel, FRP).....
- E. Month/Year of Last Use.....
- F. Depth (ft.) To Base of Tank.....
- G. Spill Prevention Equipment Y/N.....
- H. Overfill Prevention Equipment Y/N.....
- I. Method of Closure Removed/Filled.....
- J. Date Tanks Removed/Filled.....
- K. Visible Corrosion or Pitting Y/N.....
- L. Visible Holes Y/N.....

468Dogwood				
Heating oil				
280 gal				
Late 1950s				
Steel				
Mid 1980s				
3'9"				
No				
No				
Removed				
12/14/2012				
Yes				
Yes				

- M. Method of disposal for any USTs removed from the ground (attach disposal manifests)  
UST 468Dogwood was removed from the ground and disposed at a  
Subtitle "D" landfill. See Attachment "A".
- N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests)  
UST 468Dogwood had been previously filled with sand by others.
- O. If any corrosion, pitting, or holes were observed, describe the location and extent for each UST  
Corrosion, pitting and holes were found throughout the tank.

## VII. PIPING INFORMATION

A. Construction Material..(ex. Steel, FRP).....	468	Dogwood		
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. Copper supply and return lines were sound.

## VIII. BRIEF SITE DESCRIPTION AND HISTORY

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

## IX. SITE CONDITIONS

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

## X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 84009

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
468 Dogwood	Excav at fill end	Soil	Sandy-clay	3'9"	12/14/12 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.

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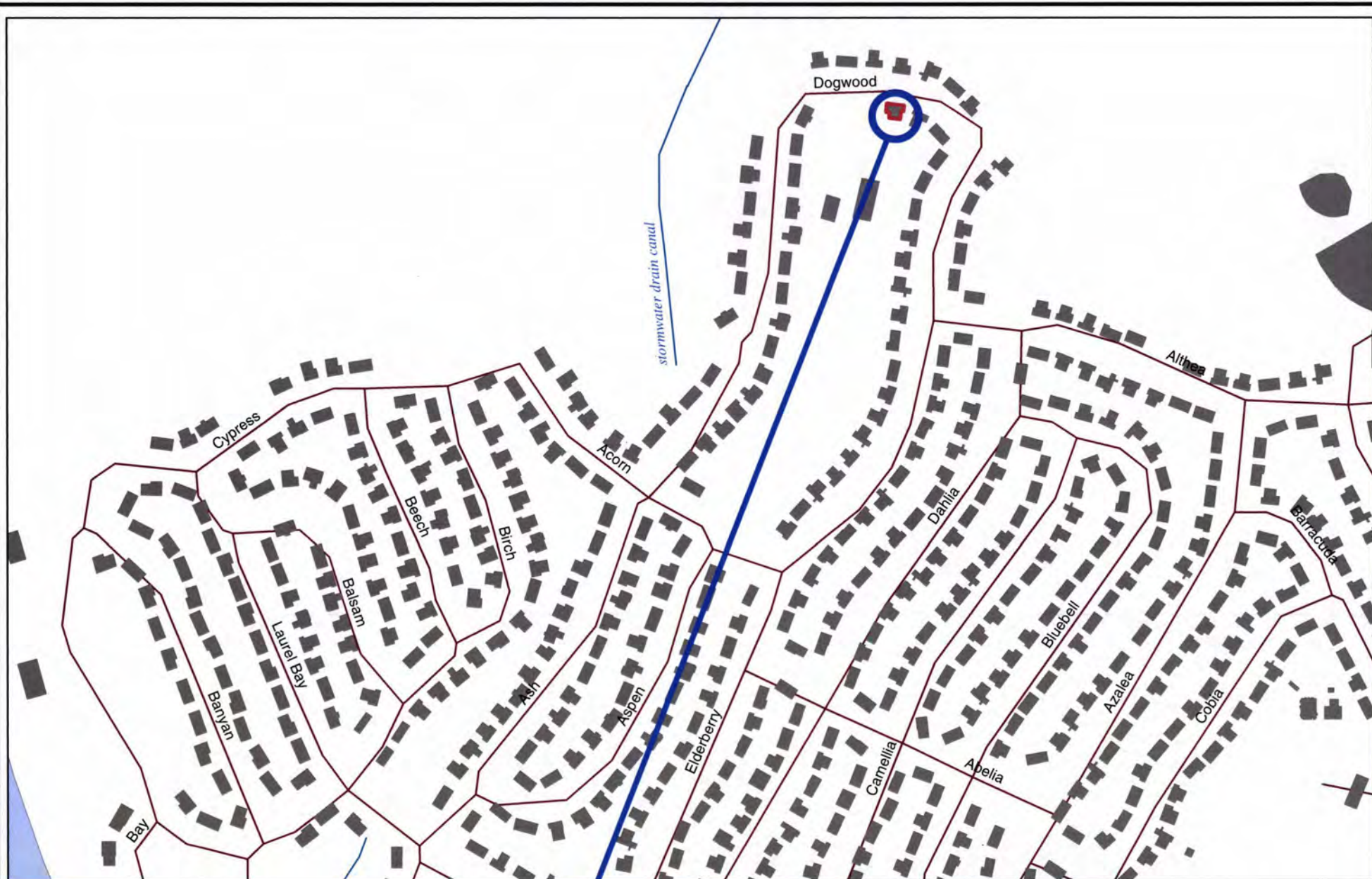
## XII. RECEPTORS

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

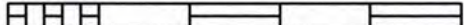
### **XIII. SITE MAP**

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

(Attach Site Map Here)



**468 DOGWOOD**

0 100 200 400 600 800 1,000  
 Feet

**SBG-EEG, Inc.**

7301 Rivers Ave., Suite 245  
 N. Charleston SC 29406-9643

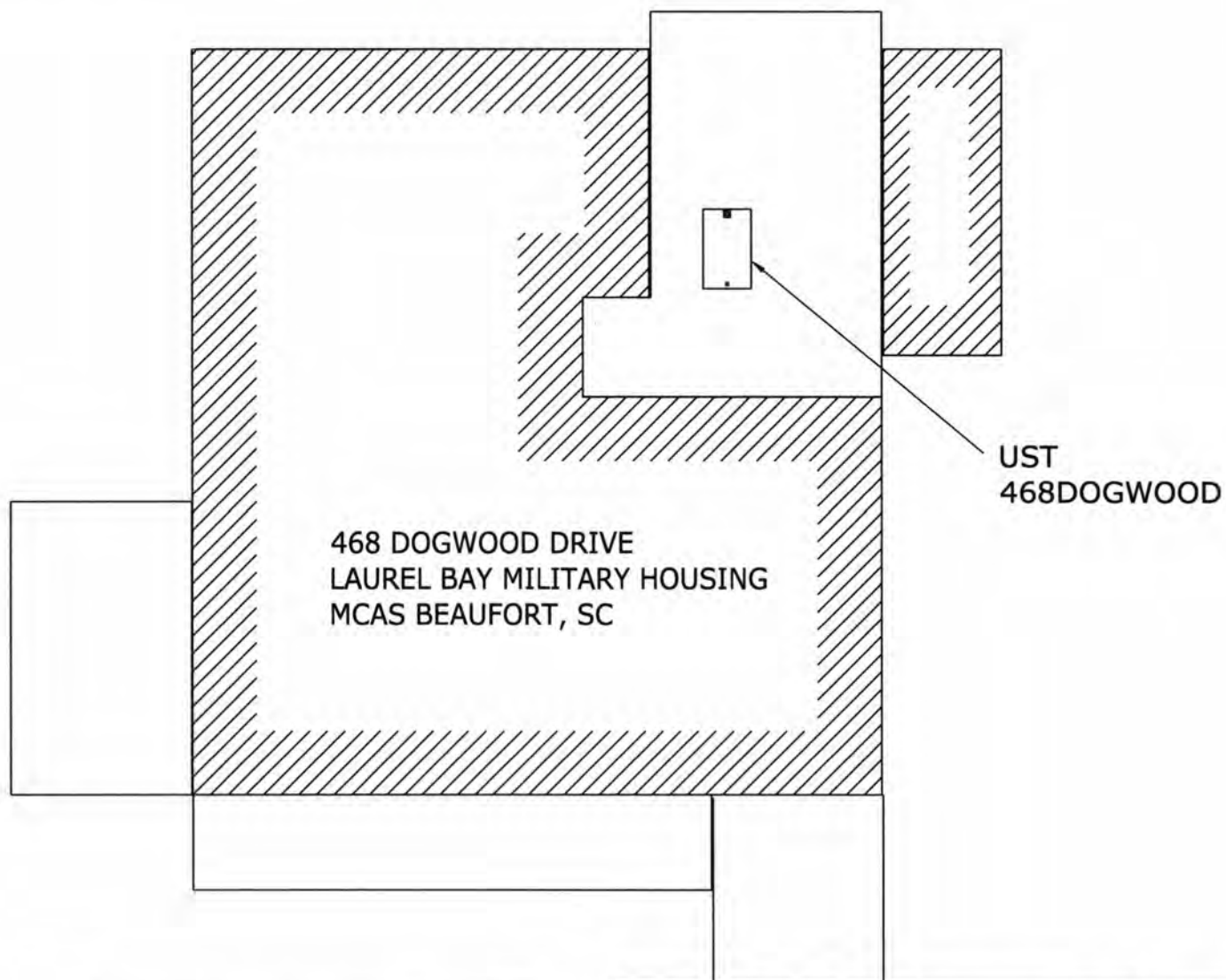
Ph. (843) 573-7140

Drawn By: L. DiAsio

Dwg Date: Jan 2013

**FIGURE 1: LOCATION MAP**  
**468 DOGWOOD DRIVE**  
**LAUREL BAY, BEAUFORT SC**

STORMWATER DRAINAGE CANAL  $\approx$  720' 



GRAPHIC SCALE

0 5' 10' 20'

TANK DEPTH BELOW GRADE  
468DOGWOOD = 9"

**SBG-EEG**

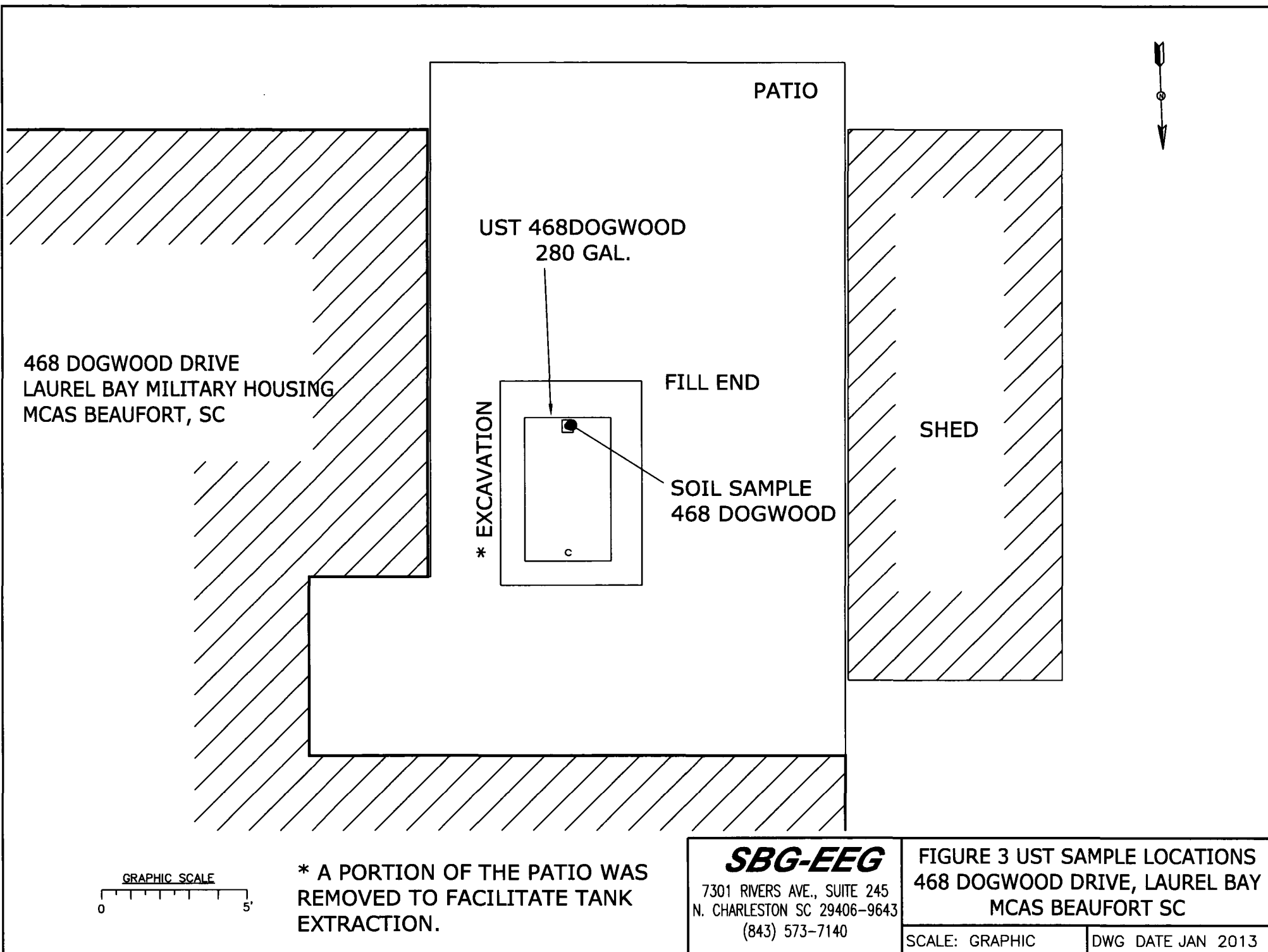
7301 RIVERS AVE., SUITE 245  
N. CHARLESTON SC 29406-9643  
(843) 573-7140

FIGURE 2 SITE MAP  
468 DOGWOOD DRIVE, LAUREL BAY  
MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE JAN 2013







Picture 1: Location of UST 468Dogwood.

#### XIV. SUMMARY OF ANALYSIS RESULTS

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

<b>CoC</b>	<b>UST</b>	<b>468Dogwood</b>						
<b>Benzene</b>		0.000931 mg/kg						
<b>Toluene</b>		ND						
<b>Ethylbenzene</b>		0.0661 mg/kg						
<b>Xylenes</b>		0.0155 mg/kg						
<b>Naphthalene</b>		1.63 mg/kg						
<b>Benzo (a) anthracene</b>		0.0683 mg/kg						
<b>Benzo (b) fluoranthene</b>		ND						
<b>Benzo (k) fluoranthene</b>		ND						
<b>Chrysene</b>		0.0508 mg/kg						
<b>Dibenz (a, h) anthracene</b>		ND						
<b>TPH (EPA 3550)</b>								

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



### SUMMARY OF ANALYSIS RESULTS (cont'd)

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

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

## **XV. ANALYTICAL RESULTS**

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

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

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville

2960 Foster Creighton Drive

Nashville, TN 37204

Tel: (615)726-0177

TestAmerica Job ID: 490-15025-1

Client Project/Site: Laurel Bay Housing Project

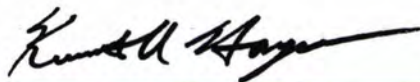
For:

Environmental Enterprise Group

10179 Highway 78

Ladson, South Carolina 29456

Attn: Mr. Tom McElwee



Authorized for release by:

12/27/2012 9:34:08 AM

Ken Hayes

Project Manager I

[ken.hayes@testamericainc.com](mailto:ken.hayes@testamericainc.com)

### LINKS

Review your project  
results through

**TotalAccess**

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Sample Summary

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-15025-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-15025-1	815 Azalea	Solid	12/10/12 13:55	12/18/12 10:30
490-15025-2	1304 Eagle	Solid	12/11/12 14:20	12/18/12 10:30
490-15025-3	679 Camellia	Solid	12/13/12 13:45	12/18/12 10:30
490-15025-4	468 Dogwood	Solid	12/14/12 11:15	12/18/12 10:30
490-15025-5	677 Camellia	Solid	12/10/12 14:30	12/18/12 10:30
490-15025-6	1200 Cardinal	Solid	12/11/12 15:00	12/18/12 10:30
490-15025-7	686 Camellia	Solid	12/13/12 13:15	12/18/12 10:30



## Case Narrative

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-15025-1

**Job ID: 490-15025-1**

**Laboratory: TestAmerica Nashville**

### Narrative

### Job Narrative 490-15025-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 12/18/2012 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3° C.

#### GC/MS VOA

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside the upper control limit: 679 Camellia (490-15025-3). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside control limits: 468 Dogwood (490-15025-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 45446.

Method(s) 8260B: The method blank for batch 45645 contained Naphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 45645.

No other analytical or quality issues were noted.

#### GC/MS Semi VOA

Method(s) 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 44945 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

#### Organic Prep

No analytical or quality issues were noted.

#### VOA Prep

No analytical or quality issues were noted.



## Definitions/Glossary

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-15025-1

### Qualifiers

#### GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

#### GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Client Sample Results

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-15025-1

Client Sample ID: 815 Azalea

Date Collected: 12/10/12 13:55

Date Received: 12/18/12 10:30

Lab Sample ID: 490-15025-1

Matrix: Solid

Percent Solids: 90.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00247	0.000828	mg/Kg	☐	12/19/12 11:11	12/20/12 22:18	1
Ethylbenzene	ND		0.00247	0.000828	mg/Kg	☐	12/19/12 11:11	12/20/12 22:18	1
Naphthalene	ND		0.00618	0.00210	mg/Kg	☐	12/19/12 11:11	12/20/12 22:18	1
Toluene	ND		0.00247	0.000915	mg/Kg	☐	12/19/12 11:11	12/20/12 22:18	1
Xylenes, Total	ND		0.00618	0.000828	mg/Kg	☐	12/19/12 11:11	12/20/12 22:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		70 - 130	12/19/12 11:11	12/20/12 22:18	1
4-Bromofluorobenzene (Surr)	108		70 - 130	12/19/12 11:11	12/20/12 22:18	1
Dibromofluoromethane (Surr)	96		70 - 130	12/19/12 11:11	12/20/12 22:18	1
Toluene-d8 (Surr)	120		70 - 130	12/19/12 11:11	12/20/12 22:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0734	0.0109	mg/Kg	☐	12/19/12 11:03	12/20/12 22:02	1
Acenaphthylene	ND		0.0734	0.00985	mg/Kg	☐	12/19/12 11:03	12/20/12 22:02	1
Anthracene	ND		0.0734	0.00985	mg/Kg	☐	12/19/12 11:03	12/20/12 22:02	1
Benzo[a]anthracene	ND		0.0734	0.0164	mg/Kg	☐	12/19/12 11:03	12/20/12 22:02	1
Benzo[a]pyrene	ND		0.0734	0.0131	mg/Kg	☐	12/19/12 11:03	12/20/12 22:02	1
Benzo[b]fluoranthene	ND		0.0734	0.0131	mg/Kg	☐	12/19/12 11:03	12/20/12 22:02	1
Benzo[g,h,i]perylene	ND		0.0734	0.00985	mg/Kg	☐	12/19/12 11:03	12/20/12 22:02	1
Benzo[k]fluoranthene	ND		0.0734	0.0153	mg/Kg	☐	12/19/12 11:03	12/20/12 22:02	1
1-Methylnaphthalene	ND		0.0734	0.0153	mg/Kg	☐	12/19/12 11:03	12/20/12 22:02	1
Pyrene	ND		0.0734	0.0131	mg/Kg	☐	12/19/12 11:03	12/20/12 22:02	1
Phenanthrene	ND		0.0734	0.00985	mg/Kg	☐	12/19/12 11:03	12/20/12 22:02	1
Chrysene	ND		0.0734	0.00985	mg/Kg	☐	12/19/12 11:03	12/20/12 22:02	1
Dibenz(a,h)anthracene	ND		0.0734	0.00766	mg/Kg	☐	12/19/12 11:03	12/20/12 22:02	1
Fluoranthene	ND		0.0734	0.00985	mg/Kg	☐	12/19/12 11:03	12/20/12 22:02	1
Fluorene	ND		0.0734	0.0131	mg/Kg	☐	12/19/12 11:03	12/20/12 22:02	1
Indeno[1,2,3-cd]pyrene	ND		0.0734	0.0109	mg/Kg	☐	12/19/12 11:03	12/20/12 22:02	1
Naphthalene	ND		0.0734	0.00985	mg/Kg	☐	12/19/12 11:03	12/20/12 22:02	1
2-Methylnaphthalene	ND		0.0734	0.0175	mg/Kg	☐	12/19/12 11:03	12/20/12 22:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	45		29 - 120	12/19/12 11:03	12/20/12 22:02	1
Terphenyl-d14 (Surr)	67		13 - 120	12/19/12 11:03	12/20/12 22:02	1
Nitrobenzene-d5 (Surr)	42		27 - 120	12/19/12 11:03	12/20/12 22:02	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	91		0.10	0.10	%			12/19/12 09:36	1

TestAmerica Nashville



# Client Sample Results

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-15025-1

Client Sample ID: 1304 Eagle

Date Collected: 12/11/12 14:20

Date Received: 12/18/12 10:30

Lab Sample ID: 490-15025-2

Matrix: Solid

Percent Solids: 93.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00247	0.000827	mg/Kg	☐	12/19/12 11:11	12/20/12 22:48	1
Ethylbenzene	ND		0.00247	0.000827	mg/Kg	☐	12/19/12 11:11	12/20/12 22:48	1
Naphthalene	ND		0.00617	0.00210	mg/Kg	☐	12/19/12 11:11	12/20/12 22:48	1
Toluene	ND		0.00247	0.000914	mg/Kg	☐	12/19/12 11:11	12/20/12 22:48	1
Xylenes, Total	ND		0.00617	0.000827	mg/Kg	☐	12/19/12 11:11	12/20/12 22:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		70 - 130	12/19/12 11:11	12/20/12 22:48	1
4-Bromofluorobenzene (Surr)	101		70 - 130	12/19/12 11:11	12/20/12 22:48	1
Dibromofluoromethane (Surr)	97		70 - 130	12/19/12 11:11	12/20/12 22:48	1
Toluene-d8 (Surr)	118		70 - 130	12/19/12 11:11	12/20/12 22:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0705	0.0105	mg/Kg	☐	12/19/12 11:03	12/20/12 22:23	1
Acenaphthylene	ND		0.0705	0.00947	mg/Kg	☐	12/19/12 11:03	12/20/12 22:23	1
Anthracene	ND		0.0705	0.00947	mg/Kg	☐	12/19/12 11:03	12/20/12 22:23	1
Benzo[a]anthracene	ND		0.0705	0.0158	mg/Kg	☐	12/19/12 11:03	12/20/12 22:23	1
Benzo[a]pyrene	ND		0.0705	0.0126	mg/Kg	☐	12/19/12 11:03	12/20/12 22:23	1
Benzo[b]fluoranthene	ND		0.0705	0.0126	mg/Kg	☐	12/19/12 11:03	12/20/12 22:23	1
Benzo[g,h,i]perylene	ND		0.0705	0.00947	mg/Kg	☐	12/19/12 11:03	12/20/12 22:23	1
Benzo[k]fluoranthene	ND		0.0705	0.0147	mg/Kg	☐	12/19/12 11:03	12/20/12 22:23	1
1-Methylnaphthalene	ND		0.0705	0.0147	mg/Kg	☐	12/19/12 11:03	12/20/12 22:23	1
Pyrene	ND		0.0705	0.0126	mg/Kg	☐	12/19/12 11:03	12/20/12 22:23	1
Phenanthrene	ND		0.0705	0.00947	mg/Kg	☐	12/19/12 11:03	12/20/12 22:23	1
Chrysene	ND		0.0705	0.00947	mg/Kg	☐	12/19/12 11:03	12/20/12 22:23	1
Dibenz(a,h)anthracene	ND		0.0705	0.00737	mg/Kg	☐	12/19/12 11:03	12/20/12 22:23	1
Fluoranthene	ND		0.0705	0.00947	mg/Kg	☐	12/19/12 11:03	12/20/12 22:23	1
Fluorene	ND		0.0705	0.0126	mg/Kg	☐	12/19/12 11:03	12/20/12 22:23	1
Indeno[1,2,3-cd]pyrene	ND		0.0705	0.0105	mg/Kg	☐	12/19/12 11:03	12/20/12 22:23	1
Naphthalene	ND		0.0705	0.00947	mg/Kg	☐	12/19/12 11:03	12/20/12 22:23	1
2-Methylnaphthalene	ND		0.0705	0.0168	mg/Kg	☐	12/19/12 11:03	12/20/12 22:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	69		29 - 120	12/19/12 11:03	12/20/12 22:23	1
Terphenyl-d14 (Surr)	93		13 - 120	12/19/12 11:03	12/20/12 22:23	1
Nitrobenzene-d5 (Surr)	58		27 - 120	12/19/12 11:03	12/20/12 22:23	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94		0.10	0.10	%			12/19/12 09:36	1

TestAmerica Nashville

# Client Sample Results

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-15025-1

Client Sample ID: 679 Camellia

Date Collected: 12/13/12 13:45

Date Received: 12/18/12 10:30

Lab Sample ID: 490-15025-3

Matrix: Solid

Percent Solids: 79.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00288	0.000964	mg/Kg	☐	12/19/12 11:11	12/20/12 23:18	1
Ethylbenzene	ND		0.00288	0.000964	mg/Kg	☐	12/19/12 11:11	12/20/12 23:18	1
Naphthalene	ND		0.00719	0.00245	mg/Kg	☐	12/19/12 11:11	12/20/12 23:18	1
Toluene	ND		0.00288	0.00106	mg/Kg	☐	12/19/12 11:11	12/20/12 23:18	1
Xylenes, Total	ND		0.00719	0.000964	mg/Kg	☐	12/19/12 11:11	12/20/12 23:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 130	12/19/12 11:11	12/20/12 23:18	1
4-Bromofluorobenzene (Surr)	107		70 - 130	12/19/12 11:11	12/20/12 23:18	1
Dibromofluoromethane (Surr)	93		70 - 130	12/19/12 11:11	12/20/12 23:18	1
Toluene-d8 (Surr)	133	X	70 - 130	12/19/12 11:11	12/20/12 23:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0828	0.0124	mg/Kg	☐	12/19/12 11:03	12/20/12 22:44	1
Acenaphthylene	ND		0.0828	0.0111	mg/Kg	☐	12/19/12 11:03	12/20/12 22:44	1
Anthracene	ND		0.0828	0.0111	mg/Kg	☐	12/19/12 11:03	12/20/12 22:44	1
Benzo[a]anthracene	ND		0.0828	0.0185	mg/Kg	☐	12/19/12 11:03	12/20/12 22:44	1
Benzo[a]pyrene	ND		0.0828	0.0148	mg/Kg	☐	12/19/12 11:03	12/20/12 22:44	1
Benzo[b]fluoranthene	ND		0.0828	0.0148	mg/Kg	☐	12/19/12 11:03	12/20/12 22:44	1
Benzo[g,h,i]perylene	ND		0.0828	0.0111	mg/Kg	☐	12/19/12 11:03	12/20/12 22:44	1
Benzo[k]fluoranthene	ND		0.0828	0.0173	mg/Kg	☐	12/19/12 11:03	12/20/12 22:44	1
1-Methylnaphthalene	ND		0.0828	0.0173	mg/Kg	☐	12/19/12 11:03	12/20/12 22:44	1
Pyrene	ND		0.0828	0.0148	mg/Kg	☐	12/19/12 11:03	12/20/12 22:44	1
Phenanthrene	ND		0.0828	0.0111	mg/Kg	☐	12/19/12 11:03	12/20/12 22:44	1
Chrysene	ND		0.0828	0.0111	mg/Kg	☐	12/19/12 11:03	12/20/12 22:44	1
Dibenz[a,h]anthracene	ND		0.0828	0.00865	mg/Kg	☐	12/19/12 11:03	12/20/12 22:44	1
Fluoranthene	ND		0.0828	0.0111	mg/Kg	☐	12/19/12 11:03	12/20/12 22:44	1
Fluorene	ND		0.0828	0.0148	mg/Kg	☐	12/19/12 11:03	12/20/12 22:44	1
Indeno[1,2,3-cd]pyrene	ND		0.0828	0.0124	mg/Kg	☐	12/19/12 11:03	12/20/12 22:44	1
Naphthalene	ND		0.0828	0.0111	mg/Kg	☐	12/19/12 11:03	12/20/12 22:44	1
2-Methylnaphthalene	ND		0.0828	0.0198	mg/Kg	☐	12/19/12 11:03	12/20/12 22:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	50		29 - 120	12/19/12 11:03	12/20/12 22:44	1
Terphenyl-d14 (Surr)	78		13 - 120	12/19/12 11:03	12/20/12 22:44	1
Nitrobenzene-d5 (Surr)	43		27 - 120	12/19/12 11:03	12/20/12 22:44	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79		0.10	0.10	%			12/19/12 09:36	1

TestAmerica Nashville



# Client Sample Results

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-15025-1

Client Sample ID: 468 Dogwood

Date Collected: 12/14/12 11:15

Date Received: 12/18/12 10:30

Lab Sample ID: 490-15025-4

Matrix: Solid

Percent Solids: 76.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000931	J	0.00192	0.000643	mg/Kg	☐	12/19/12 11:11	12/20/12 23:48	1
Ethylbenzene	0.0661		0.00192	0.000643	mg/Kg	☐	12/19/12 11:11	12/20/12 23:48	1
Naphthalene	1.63		0.318	0.108	mg/Kg	☐	12/19/12 11:10	12/21/12 14:38	1
Toluene	ND		0.00192	0.000710	mg/Kg	☐	12/19/12 11:11	12/20/12 23:48	1
Xylenes, Total	0.0155		0.00480	0.000643	mg/Kg	☐	12/19/12 11:11	12/20/12 23:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 130	12/19/12 11:11	12/20/12 23:48	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 130	12/19/12 11:10	12/21/12 14:38	1
4-Bromofluorobenzene (Surr)	67	X	70 - 130	12/19/12 11:11	12/20/12 23:48	1
4-Bromofluorobenzene (Surr)	106		70 - 130	12/19/12 11:10	12/21/12 14:38	1
Dibromofluoromethane (Surr)	96		70 - 130	12/19/12 11:11	12/20/12 23:48	1
Dibromofluoromethane (Surr)	91		70 - 130	12/19/12 11:10	12/21/12 14:38	1
Toluene-d8 (Surr)	118		70 - 130	12/19/12 11:11	12/20/12 23:48	1
Toluene-d8 (Surr)	112		70 - 130	12/19/12 11:10	12/21/12 14:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0791	J	0.0871	0.0130	mg/Kg	☐	12/19/12 11:03	12/20/12 23:05	1
Acenaphthylene	ND		0.0871	0.0117	mg/Kg	☐	12/19/12 11:03	12/20/12 23:05	1
Anthracene	0.0603	J	0.0871	0.0117	mg/Kg	☐	12/19/12 11:03	12/20/12 23:05	1
Benzo[a]anthracene	0.0683	J	0.0871	0.0195	mg/Kg	☐	12/19/12 11:03	12/20/12 23:05	1
Benzo[a]pyrene	ND		0.0871	0.0156	mg/Kg	☐	12/19/12 11:03	12/20/12 23:05	1
Benzo[b]fluoranthene	ND		0.0871	0.0156	mg/Kg	☐	12/19/12 11:03	12/20/12 23:05	1
Benzo[g,h,i]perylene	ND		0.0871	0.0117	mg/Kg	☐	12/19/12 11:03	12/20/12 23:05	1
Benzo[k]fluoranthene	ND		0.0871	0.0182	mg/Kg	☐	12/19/12 11:03	12/20/12 23:05	1
1-Methylnaphthalene	0.563		0.0871	0.0182	mg/Kg	☐	12/19/12 11:03	12/20/12 23:05	1
Pyrene	0.171		0.0871	0.0156	mg/Kg	☐	12/19/12 11:03	12/20/12 23:05	1
Phenanthrene	0.442		0.0871	0.0117	mg/Kg	☐	12/19/12 11:03	12/20/12 23:05	1
Chrysene	0.0508	J	0.0871	0.0117	mg/Kg	☐	12/19/12 11:03	12/20/12 23:05	1
Dibenz(a,h)anthracene	ND		0.0871	0.00910	mg/Kg	☐	12/19/12 11:03	12/20/12 23:05	1
Fluoranthene	0.221		0.0871	0.0117	mg/Kg	☐	12/19/12 11:03	12/20/12 23:05	1
Fluorene	0.126		0.0871	0.0156	mg/Kg	☐	12/19/12 11:03	12/20/12 23:05	1
Indeno[1,2,3-cd]pyrene	ND		0.0871	0.0130	mg/Kg	☐	12/19/12 11:03	12/20/12 23:05	1
Naphthalene	0.0517	J	0.0871	0.0117	mg/Kg	☐	12/19/12 11:03	12/20/12 23:05	1
2-Methylnaphthalene	0.867		0.0871	0.0208	mg/Kg	☐	12/19/12 11:03	12/20/12 23:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	47		29 - 120	12/19/12 11:03	12/20/12 23:05	1
Terphenyl-d14 (Surr)	65		13 - 120	12/19/12 11:03	12/20/12 23:05	1
Nitrobenzene-d5 (Surr)	40		27 - 120	12/19/12 11:03	12/20/12 23:05	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	76		0.10	0.10	%			12/19/12 09:36	1

TestAmerica Nashville

## Client Sample Results

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-15025-1

**Client Sample ID: 677 Camellia**

Date Collected: 12/10/12 14:30

Date Received: 12/18/12 10:30

**Lab Sample ID: 490-15025-5**

Matrix: Solid

Percent Solids: 91.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00207	0.000695	mg/Kg	☐	12/19/12 11:11	12/21/12 13:38	1
Ethylbenzene	ND		0.00207	0.000695	mg/Kg	☐	12/19/12 11:11	12/21/12 13:38	1
Naphthalene	ND		0.00519	0.00176	mg/Kg	☐	12/19/12 11:11	12/21/12 13:38	1
Toluene	ND		0.00207	0.000768	mg/Kg	☐	12/19/12 11:11	12/21/12 13:38	1
Xylenes, Total	ND		0.00519	0.000695	mg/Kg	☐	12/19/12 11:11	12/21/12 13:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130	12/19/12 11:11	12/21/12 13:38	1
4-Bromofluorobenzene (Surr)	98		70 - 130	12/19/12 11:11	12/21/12 13:38	1
Dibromofluoromethane (Surr)	97		70 - 130	12/19/12 11:11	12/21/12 13:38	1
Toluene-d8 (Surr)	123		70 - 130	12/19/12 11:11	12/21/12 13:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0734	0.0109	mg/Kg	☐	12/19/12 11:03	12/20/12 23:26	1
Acenaphthylene	ND		0.0734	0.00985	mg/Kg	☐	12/19/12 11:03	12/20/12 23:26	1
Anthracene	ND		0.0734	0.00985	mg/Kg	☐	12/19/12 11:03	12/20/12 23:26	1
Benzo[a]anthracene	ND		0.0734	0.0164	mg/Kg	☐	12/19/12 11:03	12/20/12 23:26	1
Benzo[a]pyrene	ND		0.0734	0.0131	mg/Kg	☐	12/19/12 11:03	12/20/12 23:26	1
Benzo[b]fluoranthene	ND		0.0734	0.0131	mg/Kg	☐	12/19/12 11:03	12/20/12 23:26	1
Benzo[g,h,i]perylene	ND		0.0734	0.00985	mg/Kg	☐	12/19/12 11:03	12/20/12 23:26	1
Benzo[k]fluoranthene	ND		0.0734	0.0153	mg/Kg	☐	12/19/12 11:03	12/20/12 23:26	1
1-Methylnaphthalene	ND		0.0734	0.0153	mg/Kg	☐	12/19/12 11:03	12/20/12 23:26	1
Pyrene	ND		0.0734	0.0131	mg/Kg	☐	12/19/12 11:03	12/20/12 23:26	1
Phenanthrene	ND		0.0734	0.00985	mg/Kg	☐	12/19/12 11:03	12/20/12 23:26	1
Chrysene	ND		0.0734	0.00985	mg/Kg	☐	12/19/12 11:03	12/20/12 23:26	1
Dibenz(a,h)anthracene	ND		0.0734	0.00766	mg/Kg	☐	12/19/12 11:03	12/20/12 23:26	1
Fluoranthene	ND		0.0734	0.00985	mg/Kg	☐	12/19/12 11:03	12/20/12 23:26	1
Fluorene	ND		0.0734	0.0131	mg/Kg	☐	12/19/12 11:03	12/20/12 23:26	1
Indeno[1,2,3-cd]pyrene	ND		0.0734	0.0109	mg/Kg	☐	12/19/12 11:03	12/20/12 23:26	1
Naphthalene	ND		0.0734	0.00985	mg/Kg	☐	12/19/12 11:03	12/20/12 23:26	1
2-Methylnaphthalene	ND		0.0734	0.0175	mg/Kg	☐	12/19/12 11:03	12/20/12 23:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	54		29 - 120	12/19/12 11:03	12/20/12 23:26	1
Terphenyl-d14 (Surr)	84		13 - 120	12/19/12 11:03	12/20/12 23:26	1
Nitrobenzene-d5 (Surr)	47		27 - 120	12/19/12 11:03	12/20/12 23:26	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	91		0.10	0.10	%			12/19/12 09:36	1

TestAmerica Nashville



# Client Sample Results

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-15025-1

Client Sample ID: 1200 Cardinal

Date Collected: 12/11/12 15:00

Date Received: 12/18/12 10:30

Lab Sample ID: 490-15025-6

Matrix: Solid

Percent Solids: 73.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00274	0.000918	mg/Kg	☐	12/19/12 11:11	12/21/12 14:08	1
Ethylbenzene	ND		0.00274	0.000918	mg/Kg	☐	12/19/12 11:11	12/21/12 14:08	1
Naphthalene	ND		0.00685	0.00233	mg/Kg	☐	12/19/12 11:11	12/21/12 14:08	1
Toluene	ND		0.00274	0.00101	mg/Kg	☐	12/19/12 11:11	12/21/12 14:08	1
Xylenes, Total	ND		0.00685	0.000918	mg/Kg	☐	12/19/12 11:11	12/21/12 14:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 130	12/19/12 11:11	12/21/12 14:08	1
4-Bromofluorobenzene (Surr)	111		70 - 130	12/19/12 11:11	12/21/12 14:08	1
Dibromofluoromethane (Surr)	93		70 - 130	12/19/12 11:11	12/21/12 14:08	1
Toluene-d8 (Surr)	112		70 - 130	12/19/12 11:11	12/21/12 14:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0892	0.0133	mg/Kg	☐	12/19/12 11:03	12/20/12 23:47	1
Acenaphthylene	ND		0.0892	0.0120	mg/Kg	☐	12/19/12 11:03	12/20/12 23:47	1
Anthracene	ND		0.0892	0.0120	mg/Kg	☐	12/19/12 11:03	12/20/12 23:47	1
Benzo[a]anthracene	ND		0.0892	0.0200	mg/Kg	☐	12/19/12 11:03	12/20/12 23:47	1
Benzo[a]pyrene	ND		0.0892	0.0160	mg/Kg	☐	12/19/12 11:03	12/20/12 23:47	1
Benzo[b]fluoranthene	ND		0.0892	0.0160	mg/Kg	☐	12/19/12 11:03	12/20/12 23:47	1
Benzo[g,h,i]perylene	ND		0.0892	0.0120	mg/Kg	☐	12/19/12 11:03	12/20/12 23:47	1
Benzo[k]fluoranthene	ND		0.0892	0.0186	mg/Kg	☐	12/19/12 11:03	12/20/12 23:47	1
1-Methylnaphthalene	ND		0.0892	0.0186	mg/Kg	☐	12/19/12 11:03	12/20/12 23:47	1
Pyrene	ND		0.0892	0.0160	mg/Kg	☐	12/19/12 11:03	12/20/12 23:47	1
Phenanthrene	ND		0.0892	0.0120	mg/Kg	☐	12/19/12 11:03	12/20/12 23:47	1
Chrysene	ND		0.0892	0.0120	mg/Kg	☐	12/19/12 11:03	12/20/12 23:47	1
Dibenz[a,h]anthracene	ND		0.0892	0.00932	mg/Kg	☐	12/19/12 11:03	12/20/12 23:47	1
Fluoranthene	ND		0.0892	0.0120	mg/Kg	☐	12/19/12 11:03	12/20/12 23:47	1
Fluorene	ND		0.0892	0.0160	mg/Kg	☐	12/19/12 11:03	12/20/12 23:47	1
Indeno[1,2,3-cd]pyrene	ND		0.0892	0.0133	mg/Kg	☐	12/19/12 11:03	12/20/12 23:47	1
Naphthalene	ND		0.0892	0.0120	mg/Kg	☐	12/19/12 11:03	12/20/12 23:47	1
2-Methylnaphthalene	ND		0.0892	0.0213	mg/Kg	☐	12/19/12 11:03	12/20/12 23:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	31		29 - 120	12/19/12 11:03	12/20/12 23:47	1
Terphenyl-d14 (Surr)	53		13 - 120	12/19/12 11:03	12/20/12 23:47	1
Nitrobenzene-d5 (Surr)	31		27 - 120	12/19/12 11:03	12/20/12 23:47	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	74		0.10	0.10	%			12/19/12 09:36	1

TestAmerica Nashville

## Client Sample Results

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-15025-1

**Client Sample ID: 686 Camellia**

Date Collected: 12/13/12 13:15

Date Received: 12/18/12 10:30

**Lab Sample ID: 490-15025-7**

Matrix: Solid

Percent Solids: 91.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00248	0.000830	mg/Kg	☐	12/19/12 11:11	12/21/12 01:18	1
Ethylbenzene	ND		0.00248	0.000830	mg/Kg	☐	12/19/12 11:11	12/21/12 01:18	1
Naphthalene	0.00411	J	0.00619	0.00211	mg/Kg	☐	12/19/12 11:11	12/21/12 01:18	1
Toluene	ND		0.00248	0.000917	mg/Kg	☐	12/19/12 11:11	12/21/12 01:18	1
Xylenes, Total	ND		0.00619	0.000830	mg/Kg	☐	12/19/12 11:11	12/21/12 01:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 130	12/19/12 11:11	12/21/12 01:18	1
4-Bromofluorobenzene (Surr)	110		70 - 130	12/19/12 11:11	12/21/12 01:18	1
Dibromofluoromethane (Surr)	96		70 - 130	12/19/12 11:11	12/21/12 01:18	1
Toluene-d8 (Surr)	108		70 - 130	12/19/12 11:11	12/21/12 01:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0724	0.0108	mg/Kg	☐	12/19/12 11:03	12/21/12 00:09	1
Acenaphthylene	ND		0.0724	0.00972	mg/Kg	☐	12/19/12 11:03	12/21/12 00:09	1
Anthracene	ND		0.0724	0.00972	mg/Kg	☐	12/19/12 11:03	12/21/12 00:09	1
Benzo[a]anthracene	ND		0.0724	0.0162	mg/Kg	☐	12/19/12 11:03	12/21/12 00:09	1
Benzo[a]pyrene	ND		0.0724	0.0130	mg/Kg	☐	12/19/12 11:03	12/21/12 00:09	1
Benzo[b]fluoranthene	ND		0.0724	0.0130	mg/Kg	☐	12/19/12 11:03	12/21/12 00:09	1
Benzo[g,h,i]perylene	ND		0.0724	0.00972	mg/Kg	☐	12/19/12 11:03	12/21/12 00:09	1
Benzo[k]fluoranthene	ND		0.0724	0.0151	mg/Kg	☐	12/19/12 11:03	12/21/12 00:09	1
1-Methylnaphthalene	ND		0.0724	0.0151	mg/Kg	☐	12/19/12 11:03	12/21/12 00:09	1
Pyrene	ND		0.0724	0.0130	mg/Kg	☐	12/19/12 11:03	12/21/12 00:09	1
Phenanthrene	ND		0.0724	0.00972	mg/Kg	☐	12/19/12 11:03	12/21/12 00:09	1
Chrysene	ND		0.0724	0.00972	mg/Kg	☐	12/19/12 11:03	12/21/12 00:09	1
Dibenz(a,h)anthracene	ND		0.0724	0.00756	mg/Kg	☐	12/19/12 11:03	12/21/12 00:09	1
Fluoranthene	ND		0.0724	0.00972	mg/Kg	☐	12/19/12 11:03	12/21/12 00:09	1
Fluorene	ND		0.0724	0.0130	mg/Kg	☐	12/19/12 11:03	12/21/12 00:09	1
Indeno[1,2,3-cd]pyrene	ND		0.0724	0.0108	mg/Kg	☐	12/19/12 11:03	12/21/12 00:09	1
Naphthalene	ND		0.0724	0.00972	mg/Kg	☐	12/19/12 11:03	12/21/12 00:09	1
2-Methylnaphthalene	ND		0.0724	0.0173	mg/Kg	☐	12/19/12 11:03	12/21/12 00:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	56		29 - 120	12/19/12 11:03	12/21/12 00:09	1
Terphenyl-d14 (Surr)	86		13 - 120	12/19/12 11:03	12/21/12 00:09	1
Nitrobenzene-d5 (Surr)	54		27 - 120	12/19/12 11:03	12/21/12 00:09	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	92		0.10	0.10	%			12/19/12 09:36	1

TestAmerica Nashville



# QC Sample Results

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-15025-1

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

Lab Sample ID: MB 490-45446/6

Matrix: Solid

Analysis Batch: 45446

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.00200	0.000670	mg/Kg			12/20/12 21:17	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			12/20/12 21:17	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			12/20/12 21:17	1
Toluene	ND		0.00200	0.000740	mg/Kg			12/20/12 21:17	1
Xylenes, Total	ND		0.00500	0.000670	mg/Kg			12/20/12 21:17	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		12/20/12 21:17	1
4-Bromofluorobenzene (Surr)	122		70 - 130		12/20/12 21:17	1
Dibromofluoromethane (Surr)	93		70 - 130		12/20/12 21:17	1
Toluene-d8 (Surr)	110		70 - 130		12/20/12 21:17	1

Lab Sample ID: LCS 490-45446/3

Matrix: Solid

Analysis Batch: 45446

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				Limits
Benzene	0.0500	0.05184		mg/Kg		104	75 - 127
Ethylbenzene	0.0500	0.05685		mg/Kg		114	80 - 134
Naphthalene	0.0500	0.05869		mg/Kg		117	69 - 150
Toluene	0.0500	0.05745		mg/Kg		115	80 - 132
Xylenes, Total	0.150	0.1746		mg/Kg		116	80 - 137

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
Toluene-d8 (Surr)	110		70 - 130

Lab Sample ID: LCSD 490-45446/4

Matrix: Solid

Analysis Batch: 45446

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
Benzene	0.0500	0.05255		mg/Kg		105	75 - 127	1	50
Ethylbenzene	0.0500	0.05727		mg/Kg		115	80 - 134	1	50
Naphthalene	0.0500	0.05788		mg/Kg		116	69 - 150	1	50
Toluene	0.0500	0.05645		mg/Kg		113	80 - 132	2	50
Xylenes, Total	0.150	0.1685		mg/Kg		112	80 - 137	4	50

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
4-Bromofluorobenzene (Surr)	93		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
Toluene-d8 (Surr)	110		70 - 130

TestAmerica Nashville

# QC Sample Results

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-15025-1

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

Lab Sample ID: MB 490-45645/6

Matrix: Solid

Analysis Batch: 45645

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene			ND		0.00200	0.000670	mg/Kg			12/21/12 09:36	1
Ethylbenzene			ND		0.00200	0.000670	mg/Kg			12/21/12 09:36	1
Naphthalene	0.001835	J			0.00500	0.00170	mg/Kg			12/21/12 09:36	1
Toluene			ND		0.00200	0.000740	mg/Kg			12/21/12 09:36	1
Xylenes, Total			ND		0.00500	0.000670	mg/Kg			12/21/12 09:36	1

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			92		70 - 130		12/21/12 09:36	1
4-Bromofluorobenzene (Surr)			115		70 - 130		12/21/12 09:36	1
Dibromofluoromethane (Surr)			93		70 - 130		12/21/12 09:36	1
Toluene-d8 (Surr)			101		70 - 130		12/21/12 09:36	1

Lab Sample ID: MB 490-45645/7

Matrix: Solid

Analysis Batch: 45645

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene			ND		0.100	0.0335	mg/Kg			12/21/12 10:06	1
Ethylbenzene			ND		0.100	0.0335	mg/Kg			12/21/12 10:06	1
Naphthalene			ND		0.250	0.0850	mg/Kg			12/21/12 10:06	1
Toluene			ND		0.100	0.0370	mg/Kg			12/21/12 10:06	1
Xylenes, Total			ND		0.250	0.0335	mg/Kg			12/21/12 10:06	1

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			91		70 - 130		12/21/12 10:06	1
4-Bromofluorobenzene (Surr)			102		70 - 130		12/21/12 10:06	1
Dibromofluoromethane (Surr)			91		70 - 130		12/21/12 10:06	1
Toluene-d8 (Surr)			107		70 - 130		12/21/12 10:06	1

Lab Sample ID: LCS 490-45645/3

Matrix: Solid

Analysis Batch: 45645

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				Limits
Benzene	0.0500	0.04962		mg/Kg		99	75 - 127
Ethylbenzene	0.0500	0.05210		mg/Kg		104	80 - 134
Naphthalene	0.0500	0.06709		mg/Kg		134	69 - 150
Toluene	0.0500	0.04962		mg/Kg		99	80 - 132
Xylenes, Total	0.150	0.1576		mg/Kg		105	80 - 137

Surrogate	LCS	LCS	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)			102		70 - 130
4-Bromofluorobenzene (Surr)			97		70 - 130
Dibromofluoromethane (Surr)			103		70 - 130
Toluene-d8 (Surr)			100		70 - 130

TestAmerica Nashville



## QC Sample Results

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-15025-1

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

Lab Sample ID: LCSD 490-45645/4

Matrix: Solid

Analysis Batch: 45645

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.04958		mg/Kg		99	75 - 127	0	50
Ethylbenzene	0.0500	0.05418		mg/Kg		108	80 - 134	4	50
Naphthalene	0.0500	0.07143		mg/Kg		143	69 - 150	6	50
Toluene	0.0500	0.05108		mg/Kg		102	80 - 132	3	50
Xylenes, Total	0.150	0.1626		mg/Kg		108	80 - 137	3	50

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

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

Lab Sample ID: MB 490-44945/1-A

Matrix: Solid

Analysis Batch: 45345

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44945

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	ND		0.0670	0.0100	mg/Kg		12/19/12 09:03	12/20/12 16:23	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		12/19/12 09:03	12/20/12 16:23	1
Anthracene	ND		0.0670	0.00900	mg/Kg		12/19/12 09:03	12/20/12 16:23	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		12/19/12 09:03	12/20/12 16:23	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		12/19/12 09:03	12/20/12 16:23	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		12/19/12 09:03	12/20/12 16:23	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		12/19/12 09:03	12/20/12 16:23	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		12/19/12 09:03	12/20/12 16:23	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		12/19/12 09:03	12/20/12 16:23	1
Pyrene	ND		0.0670	0.0120	mg/Kg		12/19/12 09:03	12/20/12 16:23	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		12/19/12 09:03	12/20/12 16:23	1
Chrysene	ND		0.0670	0.00900	mg/Kg		12/19/12 09:03	12/20/12 16:23	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		12/19/12 09:03	12/20/12 16:23	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg		12/19/12 09:03	12/20/12 16:23	1
Fluorene	ND		0.0670	0.0120	mg/Kg		12/19/12 09:03	12/20/12 16:23	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		12/19/12 09:03	12/20/12 16:23	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		12/19/12 09:03	12/20/12 16:23	1
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		12/19/12 09:03	12/20/12 16:23	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl (Surr)	69		29 - 120	12/19/12 09:03	12/20/12 16:23	1
Terphenyl-d14 (Surr)	90		13 - 120	12/19/12 09:03	12/20/12 16:23	1
Nitrobenzene-d5 (Surr)	61		27 - 120	12/19/12 09:03	12/20/12 16:23	1

TestAmerica Nashville

## QC Sample Results

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-15025-1

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

Lab Sample ID: LCS 490-44945/2-A

Matrix: Solid

Analysis Batch: 45345

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 44945

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	1.67	1.444		mg/Kg		87	38 - 120
Anthracene	1.67	1.396		mg/Kg		84	46 - 124
Benzo[a]anthracene	1.67	1.380		mg/Kg		83	45 - 120
Benzo[a]pyrene	1.67	1.415		mg/Kg		85	45 - 120
Benzo[b]fluoranthene	1.67	1.437		mg/Kg		86	42 - 120
Benzo[g,h,i]perylene	1.67	1.310		mg/Kg		79	38 - 120
Benzo[k]fluoranthene	1.67	1.416		mg/Kg		85	42 - 120
1-Methylnaphthalene	1.67	1.403		mg/Kg		84	32 - 120
Pyrene	1.67	1.430		mg/Kg		86	43 - 120
Phenanthrene	1.67	1.451		mg/Kg		87	45 - 120
Chrysene	1.67	1.311		mg/Kg		79	43 - 120
Dibenz(a,h)anthracene	1.67	1.355		mg/Kg		81	32 - 128
Fluoranthene	1.67	1.376		mg/Kg		83	46 - 120
Fluorene	1.67	1.386		mg/Kg		83	42 - 120
Indeno[1,2,3-cd]pyrene	1.67	1.339		mg/Kg		80	41 - 121
Naphthalene	1.67	1.399		mg/Kg		84	32 - 120
2-Methylnaphthalene	1.67	1.408		mg/Kg		84	28 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl (Surr)	69		29 - 120
Terphenyl-d14 (Surr)	92		13 - 120
Nitrobenzene-d5 (Surr)	61		27 - 120

Lab Sample ID: LCSD 490-44945/3-A

Matrix: Solid

Analysis Batch: 45345

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 44945

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
Acenaphthylene	1.67	1.346		mg/Kg		81	38 - 120	7	50
Anthracene	1.67	1.362		mg/Kg		82	46 - 124	2	49
Benzo[a]anthracene	1.67	1.337		mg/Kg		80	45 - 120	3	50
Benzo[a]pyrene	1.67	1.356		mg/Kg		81	45 - 120	4	50
Benzo[b]fluoranthene	1.67	1.404		mg/Kg		84	42 - 120	2	50
Benzo[g,h,i]perylene	1.67	1.223		mg/Kg		73	38 - 120	7	50
Benzo[k]fluoranthene	1.67	1.345		mg/Kg		81	42 - 120	5	45
1-Methylnaphthalene	1.67	1.283		mg/Kg		77	32 - 120	9	50
Pyrene	1.67	1.376		mg/Kg		83	43 - 120	4	50
Phenanthrene	1.67	1.421		mg/Kg		85	45 - 120	2	50
Chrysene	1.67	1.293		mg/Kg		78	43 - 120	1	49
Dibenz(a,h)anthracene	1.67	1.275		mg/Kg		77	32 - 128	6	50
Fluoranthene	1.67	1.352		mg/Kg		81	46 - 120	2	50
Fluorene	1.67	1.307		mg/Kg		78	42 - 120	6	50
Indeno[1,2,3-cd]pyrene	1.67	1.277		mg/Kg		77	41 - 121	5	50
Naphthalene	1.67	1.283		mg/Kg		77	32 - 120	9	50
2-Methylnaphthalene	1.67	1.294		mg/Kg		78	28 - 120	8	50

TestAmerica Nashville



# QC Sample Results

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-15025-1

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

Lab Sample ID: LCSD 490-44945/3-A  
Matrix: Solid  
Analysis Batch: 45345

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 44945

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	67		29 - 120
Terphenyl-d14 (Surr)	91		13 - 120
Nitrobenzene-d5 (Surr)	58		27 - 120

Lab Sample ID: 490-14894-A-1-B MS  
Matrix: Solid  
Analysis Batch: 45345

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 44945

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	ND		1.66	1.361		mg/Kg		82	25 - 120
Anthracene	ND		1.66	1.594		mg/Kg		96	28 - 125
Benzo[a]anthracene	ND		1.66	1.748		mg/Kg		105	23 - 120
Benzo[a]pyrene	ND		1.66	1.637		mg/Kg		99	15 - 128
Benzo[b]fluoranthene	ND		1.66	1.808		mg/Kg		109	12 - 133
Benzo[g,h,i]perylene	ND		1.66	1.397		mg/Kg		84	22 - 120
Benzo[k]fluoranthene	ND		1.66	1.609		mg/Kg		97	28 - 120
1-Methylnaphthalene	ND		1.66	1.338		mg/Kg		81	10 - 120
Pyrene	0.0356	J	1.66	2.076		mg/Kg		123	20 - 123
Phenanthrene	0.0386	J	1.66	2.224	F	mg/Kg		132	21 - 122
Chrysene	ND		1.66	1.582		mg/Kg		95	20 - 120
Dibenz(a,h)anthracene	ND		1.66	1.287		mg/Kg		78	12 - 128
Fluoranthene	0.0475	J	1.66	2.099		mg/Kg		124	10 - 143
Fluorene	ND		1.66	1.445		mg/Kg		87	20 - 120
Indeno[1,2,3-cd]pyrene	ND		1.66	1.434		mg/Kg		86	22 - 121
Naphthalene	ND		1.66	1.308		mg/Kg		79	10 - 120
2-Methylnaphthalene	ND		1.66	1.348		mg/Kg		81	13 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl (Surr)	60		29 - 120
Terphenyl-d14 (Surr)	96		13 - 120
Nitrobenzene-d5 (Surr)	55		27 - 120

Lab Sample ID: 490-14894-A-1-C MSD  
Matrix: Solid  
Analysis Batch: 45345

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA  
Prep Batch: 44945

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthylene	ND		1.67	1.382		mg/Kg		83	25 - 120	2	50
Anthracene	ND		1.67	1.694		mg/Kg		102	28 - 125	6	49
Benzo[a]anthracene	ND		1.67	1.903		mg/Kg		114	23 - 120	8	50
Benzo[a]pyrene	ND		1.67	1.737		mg/Kg		104	15 - 128	6	50
Benzo[b]fluoranthene	ND		1.67	1.914		mg/Kg		115	12 - 133	6	50
Benzo[g,h,i]perylene	ND		1.67	1.492		mg/Kg		90	22 - 120	7	50
Benzo[k]fluoranthene	ND		1.67	1.666		mg/Kg		100	28 - 120	4	45
1-Methylnaphthalene	ND		1.67	1.345		mg/Kg		81	10 - 120	1	50
Pyrene	0.0356	J	1.67	2.322	F	mg/Kg		137	20 - 123	11	50
Phenanthrene	0.0386	J	1.67	2.583	F	mg/Kg		153	21 - 122	15	50
Chrysene	ND		1.67	1.713		mg/Kg		103	20 - 120	8	49

TestAmerica Nashville

## QC Sample Results

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-15025-1

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

Lab Sample ID: 490-14894-A-1-C MSD

Matrix: Solid

Analysis Batch: 45345

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 44945

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
Dibenz(a,h)anthracene	ND		1.67	1.357		mg/Kg		81	12 - 128	5	50
Fluoranthene	0.0475	J	1.67	2.377		mg/Kg		140	10 - 143	12	50
Fluorene	ND		1.67	1.549		mg/Kg		93	20 - 120	7	50
Indeno[1,2,3-cd]pyrene	ND		1.67	1.488		mg/Kg		89	22 - 121	4	50
Naphthalene	ND		1.67	1.337		mg/Kg		80	10 - 120	2	50
2-Methylnaphthalene	ND		1.67	1.351		mg/Kg		81	13 - 120	0	50
<b>Surrogate</b>											
	<b>MSD</b>	<b>MSD</b>									
	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>								
2-Fluorobiphenyl (Surr)	59		29 - 120								
Terphenyl-d14 (Surr)	97		13 - 120								
Nitrobenzene-d5 (Surr)	53		27 - 120								

### Method: Moisture - Percent Moisture

Lab Sample ID: 490-15025-1 DU

Matrix: Solid

Analysis Batch: 44951

Client Sample ID: 815 Azalea

Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	
	Result	Qualifier	Result	Qualifier			RPD	Limit
Percent Solids	91		91		%		0.6	20

TestAmerica Nashville



## QC Association Summary

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-15025-1

### GC/MS VOA

#### Prep Batch: 45034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-15025-4	468 Dogwood	Total/NA	Solid	5035	

#### Prep Batch: 45035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-15025-1	815 Azalea	Total/NA	Solid	5035	
490-15025-2	1304 Eagle	Total/NA	Solid	5035	
490-15025-3	679 Camellia	Total/NA	Solid	5035	
490-15025-4	468 Dogwood	Total/NA	Solid	5035	
490-15025-5	677 Camellia	Total/NA	Solid	5035	
490-15025-6	1200 Cardinal	Total/NA	Solid	5035	
490-15025-7	686 Camellia	Total/NA	Solid	5035	

#### Analysis Batch: 45446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-15025-1	815 Azalea	Total/NA	Solid	8260B	45035
490-15025-2	1304 Eagle	Total/NA	Solid	8260B	45035
490-15025-3	679 Camellia	Total/NA	Solid	8260B	45035
490-15025-4	468 Dogwood	Total/NA	Solid	8260B	45035
490-15025-7	686 Camellia	Total/NA	Solid	8260B	45035
LCS 490-45446/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-45446/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-45446/6	Method Blank	Total/NA	Solid	8260B	

#### Analysis Batch: 45645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-15025-4	468 Dogwood	Total/NA	Solid	8260B	45034
490-15025-5	677 Camellia	Total/NA	Solid	8260B	45035
490-15025-6	1200 Cardinal	Total/NA	Solid	8260B	45035
LCS 490-45645/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-45645/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-45645/6	Method Blank	Total/NA	Solid	8260B	
MB 490-45645/7	Method Blank	Total/NA	Solid	8260B	

### GC/MS Semi VOA

#### Prep Batch: 44945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-14894-A-1-B MS	Matrix Spike	Total/NA	Solid	3550C	
490-14894-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	
490-15025-1	815 Azalea	Total/NA	Solid	3550C	
490-15025-2	1304 Eagle	Total/NA	Solid	3550C	
490-15025-3	679 Camellia	Total/NA	Solid	3550C	
490-15025-4	468 Dogwood	Total/NA	Solid	3550C	
490-15025-5	677 Camellia	Total/NA	Solid	3550C	
490-15025-6	1200 Cardinal	Total/NA	Solid	3550C	
490-15025-7	686 Camellia	Total/NA	Solid	3550C	
LCS 490-44945/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 490-44945/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
MB 490-44945/1-A	Method Blank	Total/NA	Solid	3550C	

TestAmerica Nashville

## QC Association Summary

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-15025-1

### GC/MS Semi VOA (Continued)

#### Analysis Batch: 45345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-14894-A-1-B MS	Matrix Spike	Total/NA	Solid	8270D	44945
490-14894-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8270D	44945
490-15025-1	815 Azalea	Total/NA	Solid	8270D	44945
490-15025-2	1304 Eagle	Total/NA	Solid	8270D	44945
490-15025-3	679 Camellia	Total/NA	Solid	8270D	44945
490-15025-4	468 Dogwood	Total/NA	Solid	8270D	44945
490-15025-5	677 Camellia	Total/NA	Solid	8270D	44945
490-15025-6	1200 Cardinal	Total/NA	Solid	8270D	44945
490-15025-7	686 Camellia	Total/NA	Solid	8270D	44945
LCS 490-44945/2-A	Lab Control Sample	Total/NA	Solid	8270D	44945
LCSD 490-44945/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	44945
MB 490-44945/1-A	Method Blank	Total/NA	Solid	8270D	44945

### General Chemistry

#### Analysis Batch: 44951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-15025-1	815 Azalea	Total/NA	Solid	Moisture	
490-15025-1 DU	815 Azalea	Total/NA	Solid	Moisture	
490-15025-2	1304 Eagle	Total/NA	Solid	Moisture	
490-15025-3	679 Camellia	Total/NA	Solid	Moisture	
490-15025-4	468 Dogwood	Total/NA	Solid	Moisture	
490-15025-5	677 Camellia	Total/NA	Solid	Moisture	
490-15025-6	1200 Cardinal	Total/NA	Solid	Moisture	
490-15025-7	686 Camellia	Total/NA	Solid	Moisture	



## Lab Chronicle

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-15025-1

### Client Sample ID: 815 Azalea

Date Collected: 12/10/12 13:55

Date Received: 12/18/12 10:30

### Lab Sample ID: 490-15025-1

Matrix: Solid  
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			45035	12/19/12 11:11	ML	TAL NSH
Total/NA	Analysis	8260B		1	45446	12/20/12 22:18	AF	TAL NSH
Total/NA	Prep	3550C			44945	12/19/12 11:03	AK	TAL NSH
Total/NA	Analysis	8270D		1	45345	12/20/12 22:02	KP	TAL NSH
Total/NA	Analysis	Moisture		1	44951	12/19/12 09:36	RS	TAL NSH

### Client Sample ID: 1304 Eagle

Date Collected: 12/11/12 14:20

Date Received: 12/18/12 10:30

### Lab Sample ID: 490-15025-2

Matrix: Solid  
Percent Solids: 93.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			45035	12/19/12 11:11	ML	TAL NSH
Total/NA	Analysis	8260B		1	45446	12/20/12 22:48	AF	TAL NSH
Total/NA	Prep	3550C			44945	12/19/12 11:03	AK	TAL NSH
Total/NA	Analysis	8270D		1	45345	12/20/12 22:23	KP	TAL NSH
Total/NA	Analysis	Moisture		1	44951	12/19/12 09:36	RS	TAL NSH

### Client Sample ID: 679 Camellia

Date Collected: 12/13/12 13:45

Date Received: 12/18/12 10:30

### Lab Sample ID: 490-15025-3

Matrix: Solid  
Percent Solids: 79.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			45035	12/19/12 11:11	ML	TAL NSH
Total/NA	Analysis	8260B		1	45446	12/20/12 23:18	AF	TAL NSH
Total/NA	Prep	3550C			44945	12/19/12 11:03	AK	TAL NSH
Total/NA	Analysis	8270D		1	45345	12/20/12 22:44	KP	TAL NSH
Total/NA	Analysis	Moisture		1	44951	12/19/12 09:36	RS	TAL NSH

### Client Sample ID: 468 Dogwood

Date Collected: 12/14/12 11:15

Date Received: 12/18/12 10:30

### Lab Sample ID: 490-15025-4

Matrix: Solid  
Percent Solids: 76.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			45035	12/19/12 11:11	ML	TAL NSH
Total/NA	Analysis	8260B		1	45446	12/20/12 23:48	AF	TAL NSH
Total/NA	Prep	5035			45034	12/19/12 11:10	ML	TAL NSH
Total/NA	Analysis	8260B		1	45645	12/21/12 14:38	AF	TAL NSH
Total/NA	Prep	3550C			44945	12/19/12 11:03	AK	TAL NSH
Total/NA	Analysis	8270D		1	45345	12/20/12 23:05	KP	TAL NSH
Total/NA	Analysis	Moisture		1	44951	12/19/12 09:36	RS	TAL NSH

TestAmerica Nashville

## Lab Chronicle

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-15025-1

### Client Sample ID: 677 Camellia

Date Collected: 12/10/12 14:30

Date Received: 12/18/12 10:30

### Lab Sample ID: 490-15025-5

Matrix: Solid

Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			45035	12/19/12 11:11	ML	TAL NSH
Total/NA	Analysis	8260B		1	45645	12/21/12 13:38	AF	TAL NSH
Total/NA	Prep	3550C			44945	12/19/12 11:03	AK	TAL NSH
Total/NA	Analysis	8270D		1	45345	12/20/12 23:26	KP	TAL NSH
Total/NA	Analysis	Moisture		1	44951	12/19/12 09:36	RS	TAL NSH

### Client Sample ID: 1200 Cardinal

Date Collected: 12/11/12 15:00

Date Received: 12/18/12 10:30

### Lab Sample ID: 490-15025-6

Matrix: Solid

Percent Solids: 73.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			45035	12/19/12 11:11	ML	TAL NSH
Total/NA	Analysis	8260B		1	45645	12/21/12 14:08	AF	TAL NSH
Total/NA	Prep	3550C			44945	12/19/12 11:03	AK	TAL NSH
Total/NA	Analysis	8270D		1	45345	12/20/12 23:47	KP	TAL NSH
Total/NA	Analysis	Moisture		1	44951	12/19/12 09:36	RS	TAL NSH

### Client Sample ID: 686 Camellia

Date Collected: 12/13/12 13:15

Date Received: 12/18/12 10:30

### Lab Sample ID: 490-15025-7

Matrix: Solid

Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			45035	12/19/12 11:11	ML	TAL NSH
Total/NA	Analysis	8260B		1	45446	12/21/12 01:18	AF	TAL NSH
Total/NA	Prep	3550C			44945	12/19/12 11:03	AK	TAL NSH
Total/NA	Analysis	8270D		1	45345	12/21/12 00:09	KP	TAL NSH
Total/NA	Analysis	Moisture		1	44951	12/19/12 09:36	RS	TAL NSH

#### Laboratory References:

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



## Method Summary

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-15025-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NSH
Moisture	Percent Moisture	EPA	TAL NSH

### Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

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

## Certification Summary

Client: Environmental Enterprise Group  
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-15025-1

### Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	ACIL		393	10-30-13
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alabama	State Program	4	41150	05-31-13
Alaska (UST)	State Program	10	UST-087	07-24-13
Arizona	State Program	9	AZ0473	05-05-13
Arkansas DEQ	State Program	6	88-0737	04-25-13
California	NELAP	9	1168CA	10-31-13
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Colorado	State Program	8	N/A	02-28-13
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAP	4	E87358	06-30-13
Illinois	NELAP	5	200010	12-09-13
Iowa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-13
Kentucky	State Program	4	90038	12-31-12
Kentucky (UST)	State Program	4	19	09-15-13
Louisiana	NELAP	6	LA120025	12-31-12
Louisiana	NELAP	6	30613	06-30-13
Maryland	State Program	3	316	03-31-13
Massachusetts	State Program	1	M-TN032	06-30-13
Minnesota	NELAP	5	047-999-345	12-31-12
Mississippi	State Program	4	N/A	06-30-13
Montana (UST)	State Program	8	NA	01-01-15
Nevada	State Program	9	TN00032	07-31-13
New Hampshire	NELAP	1	2963	10-09-13
New Jersey	NELAP	2	TN965	06-30-13
New York	NELAP	2	11342	04-01-13
North Carolina DENR	State Program	4	387	12-31-12
North Dakota	State Program	8	R-146	06-30-13
Ohio VAP	State Program	5	CL0033	01-19-14
Oklahoma	State Program	6	9412	08-31-13
Oregon	NELAP	10	TN200001	04-30-13
Pennsylvania	NELAP	3	68-00585	06-30-13
Rhode Island	State Program	1	LAO00268	12-30-12
South Carolina	State Program	4	84009 (001)	02-28-13
South Carolina	State Program	4	84009 (002)	02-23-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-13
USDA	Federal		S-48469	11-02-13
Utah	NELAP	8	TAN	06-30-13
Virginia	NELAP	3	460152	06-14-13
Washington	State Program	10	C789	07-19-13
West Virginia DEP	State Program	3	219	02-28-13
Wisconsin	State Program	5	998020430	08-31-13
Wyoming (UST)	A2LA	8	453.07	12-31-13

TestAmerica Nashville



## COOLER RECEIPT FORM



490-15025 Chain of Custody

Cooler Received/Opened On 12/18/2012 @ 10:30

1. Tracking # 5761 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 94660220

2. Temperature of rep. sample or temp blank when opened: 1.3 Degrees Celsius

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

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

If yes, how many and where: 2 Front (Broke)

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

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

I certify that I opened the cooler and answered questions 1-6 (Initial) W

7. Were custody seals on containers: YES NO and intact YES...NO...NA

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

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

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

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

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

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

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

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

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

I certify that I unloaded the cooler and answered questions 7-14 (Initial) F

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

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

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

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

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

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

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

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

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

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

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



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# TestAmerica

Nashville Division  
2960 Foster Creighton  
Nashville, TN 37204

Phone: 615-726-0177  
Toll Free: 800-755-0980  
Fax: 615-726-3404

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

Client Name/Account #: EEG - SBG # 2449  
Address: 10179 Highway 78  
City/State/Zip: Ladson, SC 29455

Site State: SC  
PO#: 1063  
Compliance Monitoring? Yes ☐ No ☐  
Enforcement Action? Yes ☐ No ☐

Project Manager: Tom McElwee email: mcelwee@eeqinc.net  
Telephone Number: 843.412.2097  
Fax No.: 843-879-0461  
Sample Name: (Print) Chris Tustell  
Sampler Signature: [Signature]

TA Quote #:   
Project ID: Laurel Bay Housing Project  
Project #:   
Analyze For:   
Loc: 490  
15025  
RUSH TAT (Pre-Schedule)

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Ice	HNO <sub>3</sub> (Red Label)	HCl (Blue Label)	NaOH (Orange Label)	H <sub>2</sub> SO <sub>4</sub> Plastic (Yellow Label)	H <sub>2</sub> SO <sub>4</sub> Glass (Yellow Label)	None (Black Label)	Other (Specify)	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	BTEX + Naph - 8260E	PAH - 8270D	Analyze For
815 A2A12A	12/10/12	1355	45	X																	X	X	
1304 EAS12A	12/11/12	1430	5	X																	X	X	
679 CSM11A	12/13/12	1345	5	X																	X	X	
468 D09W00D	12/14/12	1115	45	X																	X	X	

Special Instructions:

Method of Shipment:

Laboratory Comments:  
Temperature Upon Receipt  
VOCs Free of Headspace?

Relinquished by:	Date	Time	Received by:	Date	Time
[Signature]	12/17/12	600	[Signature]	12/18/12	10:30

PS 2012

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Name/Account #: EEG - SBG # 2449

Address: 10179 Highway 78

City/State/Zip: Ladson, SC 29456

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

Telephone Number: 843.412.2097

Sampler Name: (Print) Bratt H. Spar

Sampler Signature: [Signature]

Nashville Division  
2960 Foster Creighton  
Nashville, TN 37204

Phone: 615-726-0177  
Toll Free: 800-766-0980  
Fax: 615-726-3404

Site State: SC

PO#: 1063

TA Quote #:

Project ID: Laurel Bay Housing Project

Project #:

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

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Ice	HNO <sub>3</sub> (Red Label)	HCL (Blue Label)	NaOH (Orange Label)	H <sub>2</sub> SO <sub>4</sub> Plastic (Yellow Label)	H <sub>2</sub> SO <sub>4</sub> Glass (Yellow Label)	None (Black Label)	Other (Specify)	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	BTEX + Naph - 8260E	PAH - 8270D	Loc: 490	15025	RUSH TAT (Pre-Schedule)
6777 Camella A	12/10/12	1430	4	X																					
1200 Cardinal	12/11/12	1500	4	X																					
686 Camella A	12/13/12	1315	4	X																					

Special Instructions:

Method of Shipment:

FEDEX

Laboratory Comments:

Temperature Upon Receipt:  
VOCs Free of Headspace?

Y

Relinquished By:	Date	Time	Received by:	Date	Time
<u>[Signature]</u>	12/17/12	0900	<u>Feder</u>		
<u>[Signature]</u>			<u>[Signature]</u>	12-18-12	10:30



## Login Sample Receipt Checklist

Client: Environmental Enterprise Group

Job Number: 490-15025-1

Login Number: 15025

List Source: TestAmerica Nashville

List Number: 1

Creator: Ford, Easton

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ATTACHMENT A



# NON-HAZARDOUS MANIFEST

<b>NON-HAZARDOUS MANIFEST</b>		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of 1		
3. Generator's Mailing Address: MCAS BEAUFORT LAUREL BAY HOUSING BEAUFORT, SC 29904		4. Generator's Phone 843-879-0411		Generator's Site Address (If different than mailing):		A. Manifest Number <b>WMNA</b> 01519107		
5. Transporter 1 Company Name		6. US EPA ID Number		C. State Transporter's ID		D. Transporter's Phone		
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone		
9. Designated Facility Name and Site Address HICKORY HILL LANDFILL 2621 LOW COUNTRY DRIVE RIDGELAND, SC 29936		10. US EPA ID Number		G. State Facility ID		H. State Facility Phone 843-987-4643		
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments	
	a. HEATING OIL TANK FILLED WITH SAND		No.	Type				
	WM Profile # 102655SC							
	b.							
	WM Profile #							
c.								
WM Profile #								
d.								
WM Profile #								
J. Additional Descriptions for Materials Listed Above		K. Disposal Location						
		Cell		Level				
		Grid						
15. Special Handling Instructions and Additional Information UST's from: 2) 468 Dogwood 4) 661 Camellia 6) 700 Bluebell 1) 679 Camellia 3) 455 Elderberry 5) 586 Aster								
Purchase Order # _____ EMERGENCY CONTACT / PHONE NO.: _____								
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.								
Printed Name		Signature "On behalf of"				Month	Day	Year
						2	4	13
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials							
	Printed Name		Signature				Month	Day
		PEATH SHAW				2	4	13
18. Transporter 2 Acknowledgement of Receipt of Materials								
Printed Name		Signature				Month	Day	Year
		JAMES BALDWIN						
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
		Toni Cofield				2	6	13

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 - Initial Groundwater

# Volatile Organic Compounds by GC/MS

Client: <b>AECOM - Resolution Consultants</b>				Laboratory ID: <b>QF02019-013</b>			
Description: <b>BEALB468TW01WG20150602</b>				Matrix: <b>Aqueous</b>			
Date Sampled: <b>06/02/2015 1025</b>							
Date Received: <b>06/03/2015</b>							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/04/2015 1507	EH1		76528

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
<b>Benzene</b>	<b>71-43-2</b>	<b>8260B</b>	<b>0.26</b>	<b>J</b>	<b>5.0</b>	0.45	<b>0.21</b>	<b>ug/L</b>	<b>1</b>
<b>Ethylbenzene</b>	<b>100-41-4</b>	<b>8260B</b>	<b>4.4</b>	<b>J</b>	<b>5.0</b>	0.51	<b>0.17</b>	<b>ug/L</b>	<b>1</b>
<b>Naphthalene</b>	<b>91-20-3</b>	<b>8260B</b>	<b>42</b>		<b>5.0</b>	0.96	<b>0.32</b>	<b>ug/L</b>	<b>1</b>
Toluene	108-88-3	8260B	0.48	U	5.0	0.48	0.16	ug/L	1
Xylenes (total)	1330-20-7	8260B	0.57	U	5.0	0.57	0.19	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		108	75-120
1,2-Dichloroethane-d4		98	70-120
Toluene-d8		98	85-120
Dibromofluoromethane		105	85-115

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

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

Level 1 Report v2.1

# Semivolatile Organic Compounds by GC/MS (SIM)

Client: <b>AECOM - Resolution Consultants</b>	Laboratory ID: <b>QF02019-013</b>
Description: <b>BEALB468TW01WG20150602</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>06/02/2015 1025</b>	
Date Received: <b>06/03/2015</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D (SIM)	1	06/08/2015 1537	RBH	06/05/2015 1740	76658

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
Benzo(a)anthracene	56-55-3	8270D (SIM)	0.17	J	0.20	0.040	0.019	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D (SIM)	0.034	J	0.20	0.040	0.019	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D (SIM)	0.040	U	0.20	0.040	0.024	ug/L	1
Chrysene	218-01-9	8270D (SIM)	0.17	J	0.20	0.040	0.021	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D (SIM)	0.080	U	0.20	0.080	0.040	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Methylnaphthalene-d10		58	15-139
Fluoranthene-d10		78	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

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Level 1 Report v2.1

Appendix D  
Laboratory Analytical Report – Permanent Well Groundwater

# Volatile Organic Compounds by GC/MS

Client: AECOM - Resolution Consultants				Laboratory ID: RG27006-003			
Description: BEALB468MW01WG20160725				Matrix: Aqueous			
Date Sampled: 07/25/2016 1250							
Date Received: 07/27/2016							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	07/28/2016 0004	ECP		18490		

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
Benzene	71-43-2	8260B	0.80	U	1.0	0.80	0.40	ug/L	1
Ethylbenzene	100-41-4	8260B	0.80	U	1.0	0.80	0.40	ug/L	1
Naphthalene	91-20-3	8260B	1.3		1.0	0.80	0.40	ug/L	1
Toluene	108-88-3	8260B	0.80	U	1.0	0.80	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	0.80	U	1.0	0.80	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		95	85-114
Dibromofluoromethane		107	80-119
1,2-Dichloroethane-d4		107	81-118
Toluene-d8		101	89-112

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

## Semivolatile Organic Compounds by GC/MS

Client: AECOM - Resolution Consultants

Laboratory ID: RG27006-003

Description: BEALB468MW01WG20160725

Matrix: Aqueous

Date Sampled: 07/25/2016 1250

Date Received: 07/27/2016

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	08/03/2016 1109	RBH	08/01/2016 1236	18706

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
Benzo(a)anthracene	56-55-3	8270D	0.10	U	0.20	0.10	0.040	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D	0.10	U	0.20	0.10	0.040	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D	0.10	U	0.20	0.10	0.040	ug/L	1
Chrysene	218-01-9	8270D	0.10	U	0.20	0.10	0.040	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D	0.10	U	0.20	0.10	0.040	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
Nitrobenzene-d5		63	44-120						
2-Fluorobiphenyl		59	44-119						
Terphenyl-d14		72	50-134						

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 &lt; 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.

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Appendix E  
Regulatory Correspondence

# D H E C

PROMOTE PROTECT PROSPER

Catherine B. Templeton, Director

May 15, 2014

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,

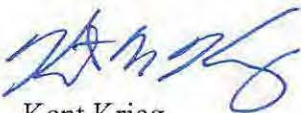
The South Carolina Department of Health and Environmental Control (the Department) received the above referenced Underground Storage Tank Assessment Reports for the addresses listed above. The regulatory authority for the investigation and cleanup of releases from these tank systems is the South Carolina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

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

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

If you have any questions, please contact me at [kriegkm@dhec.sc.gov](mailto:kriegkm@dhec.sc.gov) or 803-898-0255.

Sincerely,



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

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



# D H E C

PROMOTE PROTECT PROSPER

Catherine B. Templeton, Director

**Attachment to:** Krieg to Drawdy  
**Subject:** IGWA  
**Dated** 5/15/2014

## Laurel Bay Underground Storage Tank Assessment Reports for: (121 addresses/139 tanks)

137 Laurel Bay Tank 2	387 Acorn
139 Laurel Bay	392 Acorn Tank 2
229 Cypress Tank 2	396 Acorn Tank 1
261 Beech Tank 1	396 Acorn Tank 2
261 Beech Tank 3	430 Elderberry
273 Birch Tank 1	433 Elderberry
273 Birch Tank 2	439 Elderberry
273 Birch Tank 3	440 Elderberry
276 Birch Tank 2	442 Elderberry
278 Birch Tank 2	443 Elderberry
291 Birch Tank 2	444 Elderberry Tank 1
300 Ash	445 Elderberry
304 Ash	446 Elderberry
314 Ash Tank 1	448 Elderberry
314 Ash Tank 2	449 Elderberry
322 Ash Tank 2	451 Elderberry
323 Ash	453 Elderberry
324 Ash	456 Elderberry Tank 1
325 Ash Tank 1	456 Elderberry Tank 2
325 Ash Tank 2	458 Elderberry Tank 1
326 Ash	458 Elderberry Tank 3
336 Ash	464 Dogwood
339 Ash	466 Dogwood
343 Ash Tank 1	467 Dogwood
344 Ash Tank 1	468 Dogwood
348 Ash	469 Dogwood
349 Ash Tank 1	471 Dogwood Tank 2
353 Ash Tank 1	471 Dogwood Tank 3
362 Aspen	475 Dogwood Tank 1
376 Aspen	475 Dogwood Tank 2
380 Aspen	516 Laurel Bay Tank 1 (UST#03747)
383 Aspen Tank 2	518 Laurel Bay

Laurel Bay Underground Storage Tank Assessment Reports for: (121 addresses/139 tanks) cont.

531 Laurel Bay	1219 Cardinal
532 Laurel Bay	1272 Albatross
635 Dahlia Tank 2	1305 Eagle
638 Dahlia	1353 Cardinal
640 Dahlia Tank 1	1356 Cardinal
640 Dahlia Tank 2	1357 Cardinal
645 Dahlia	1359 Cardinal
647 Dahlia	1360 Cardinal
648 Dahlia Tank 2	1361 Cardinal
650 Dahlia Tank 1	1368 Cardinal
650 Dahlia Tank 2	1370 Cardinal Tank 1
652 Dahlia Tank 1	1377 Dove
652 Dahlia Tank 2	1381 Dove
760 Althea	1382 Dove
763 Althea	1384 Dove
771 Althea	1385 Dove
927 Albacore	1389 Dove
1015 Foxglove	1391 Dove
1046 Gardenia	1392 Dove
1062 Gardenia Tank 2	1393 Dove Tank 1
1070 Heather	1393 Dove Tank 2
1072 Heather	1406 Eagle
1102 Iris Tank 1	1407 Eagle Tank 1
1107 Iris	1411 Eagle Tank 1
1126 Iris	1411 Eagle Tank 2
1129 Iris	1412 Eagle
1132 Iris	1413 Albatross
1133 Iris Tank 1	1414 Albatross
1138 Iris	1422 Albatross
1144 Iris Tank 1	1425 Albatross
1144 Iris Tank 2	1426 Albatross
1148 Iris Tank 1	1432 Dove
1148 Iris Tank 2	1434 Dove
1161 Jasmine	1436 Dove
1167 Jasmine	1438 Dove Tank 1
1170 Jasmine	1440 Dove
1190 Bobwhite	1442 Dove Tank 1
1192 Bobwhite	





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

February 22, 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-May and June 2015  
Laurel Bay Military Housing Area Multiple Properties  
Dated October 2015

Dear Mr. Drawdy,

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

Per the Department's request, groundwater samples were collected from the attached referenced addresses. The Department reviewed the groundwater data and previous investigations and it agrees with the conclusions and recommendations included in the document. To further assess the impact to groundwater, permanent wells should be installed at the 52 stated addresses. For the remaining 91 addresses, there is no indication of contamination on the property and therefore no further investigation is required at this time.

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

If you have any questions, please contact me at [petruslb@dhec.sc.gov](mailto:petruslb@dhec.sc.gov) or 803-898-0294.

Sincerely,

Laurel Petrus  
RCRA Federal Facilities Section

*Attachment: Specific Property Recommendations*

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

Attachment to: Petrus to Drawdy  
 Subject: Draft Final Initial Groundwater Investigation Report-May and June 2015  
 Specific Property Recommendations  
 Dated February 22, 2016

**Draft Final Initial Groundwater Investigation Report for (143 addresses)**

**Permanent Monitoring Well Investigation recommendation (52 addresses)**

273 Birch Drive	1192 Bobwhite Drive
325 Ash Street	1194 Bobwhite Drive
326 Ash Street	1272 Albatross Drive
336 Ash Street	1352 Cardinal Lane
343 Ash Street	1356 Cardinal Lane
353 Ash Street	1359 Cardinal Lane
430 Elderberry Drive	1360 Cardinal Lane
440 Elderberry Drive	1362 Cardinal Lane
456 Elderberry Drive	1370 Cardinal Lane
458 Elderberry Drive	1382 Dove Lane
468 Dogwood Drive	1384 Dove lane
518 Laurel Bay Blvd	1385 Dove Lane
635 Dahlia Drive	1389 Dove Lane
638 Dahlia Drive	1392 Dove Lane
640 Dahlia Drive	1393 Dove Lane
647 Dahlia Drive	1407 Eagle Lane
648 Dahlia Drive	1411 Eagle Lane
650 Dahlia Drive	1418 Albatross Drive
652 Dahlia Drive	1420 Albatross Drive
760 Althea Street	1426 Albatross Drive
1102 Iris Lane	1429 Albatross Drive
1132 Iris Lane	1434 Dove Lane
1133 Iris Lane	1436 Dove Lane
1144 Iris Lane	1440 Dove Lane
1148 Iris Lane	1442 Dove Lane
1186 Bobwhite Drive	1444 Dove Lane

**No Further Action recommendation (91 addresses):**

137 Laurel Bay Blvd	771 Althea Street
139 Laurel Bay Blvd	927 Albacore Street
229 Cypress Street	1015 Foxglove Street
261 Beech Street	1046 Gardenia Drive
276 Birch Drive	1062 Gardenia Drive
278 Birch Drive	1070 Heather Street
291 Birch Drive	1072 Heather Street

300 Ash Street	1107 Iris Lane
304 Ash Street	1126 Iris Lane
314 Ash Street	1129 Iris Lane
322 Ash Street	1138 Iris Lane
323 Ash Street	1161 Jasmine Street
324 Ash Street	1167 Jasmine Street
339 Ash Street	1170 Jasmine Street
344 Ash Street	1190 Bobwhite Drive
348 Ash Street	1219 Cardinal Lane
349 Ash Street	1305 Eagle Lane
362 Aspen Street	1353 Cardinal Lane
376 Aspen Street	1354 Cardinal Lane
380 Aspen Street	1357 Cardinal Lane
383 Aspen Street	1361 Cardinal Lane
387 Acorn Drive	1364 Cardinal Lane
392 Acorn Drive	1368 Cardinal Lane
396 Acorn Drive	1377 Dove Lane
433 Elderberry Drive	1381 Dove Lane
439 Elderberry Drive	1391 Dove Lane
442 Elderberry Drive	1403 Eagle Lane
443 Elderberry Drive	1404 Eagle Lane
444 Elderberry Drive	1405 Eagle Lane
445 Elderberry Drive	1406 Eagle Lane
446 Elderberry Drive	1408 Eagle Lane
448 Elderberry Drive	1410 Eagle Lane
449 Elderberry Drive	1412 Eagle Lane
451 Elderberry Drive	1413 Albatross Drive
453 Elderberry Drive	1414 Albatross Drive
464 Dogwood Drive	1417 Albatross Drive
466 Dogwood Drive	1421 Albatross Drive
467 Dogwood Drive	1422 Albatross Drive
469 Dogwood Drive	1425 Albatross Drive
471 Dogwood Drive	1427 Albatross Drive
475 Dogwood Drive	1430 Dove Lane
516 Laurel Bay Blvd	1432 Dove Lane
531 Laurel Bay Blvd	1438 Dove Lane
532 Laurel Bay Blvd	1453 Cardinal Lane
645 Dahlia Drive	1455 Cardinal Lane
763 Althea Street	





March 9, 2017

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

RE: Tank Removal Report 434 Elderberry Drive, October 2013 and  
Draft Final Groundwater Assessment Report June and July 2016

Dear Mr. Drawdy:

The South Carolina Department of Health and Environmental Control (the Department) received groundwater data from permanent monitoring well installations in the Draft Final Groundwater Assessment Report June and July 2016, Laurel Bay Military Housing Area for the addresses shown in the attachment. The Department also reviewed the tank removal report for 434 Elderberry. The tank was removed in 2013. 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 tank removal report for 434 Elderberry Drive indicates no soil contamination was found on the property. No Further investigation is required at this time at 434 Elderberry Drive.

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, groundwater monitoring should begin at the fifteen stated addresses. For the remaining twelve addresses, there is no indication of contamination on the property and therefore no further investigation is required at this time.

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

If you have any questions, please contact me at [petruslb@dhec.sc.gov](mailto:petruslb@dhec.sc.gov) or 803-898-0294.

Sincerely,

A handwritten signature in black ink, appearing to read 'Laurel Petrus', is written above the typed name.

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

Cc: Russell Berry, EQC Region 8  
Shawn Dolan, Resolution Consultants  
Bryan Beck, NAVFAC MIDLANT



Attachment to: Petrus to Drawdy  
Dated March 9, 2017

Draft Final Initial Groundwater Assessment Report for (27 addresses)

Groundwater Monitoring recommendation (15 addresses)	
273 Birch Drive	456 Elderberry Drive
325 Ash Steet	458 Elderberry Drive
326 Ash Street	648 Dahlia Drive
330 Ash Street	650 Dahlia Drive
336 Ash Street	1132 Iris Lane
343 Ash Street	1144 Iris Lane
353 Ash Street	1148 Iris Lane
440 Elderberry Drive	
No Further Action recommendation (12 addresses):	
430 Elderberry Drive	647 Dahlia Drive
468 Dogwood Drive	652 Dahlia Drive
518 Laurel Bay Blvd	760 Althea Street
635 Dahlia Drive	1102 iris Lane
638 Dahlia Drive	1133 Iris Lane
640 Dahlia Drive	1272 Albatross Drive

Tank Removal Report October 2013 (1 address)

No Further Action  
434 Elderberry Drive