

SUMMARY REPORT
408 IRIS LANE (FORMERLY 1133 IRIS LANE)
LAUREL BAY MILITARY HOUSING AREA
MARINE CORPS AIR STATION BEAUFORT
BEAUFORT, SC

Revision: 0
Prepared for:

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

and



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

JUNE 2021

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Prepared by:



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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 408 Iris Lane (Formerly 1133 Iris Lane). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

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

1.1 Background Information

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

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

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

In 2007, MCAS Beaufort began a voluntary program to remove the unregulated, residential 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 free product and/or COPCs is in excess of the SCDHEC RBSLs for groundwater. If COPCs and/or free product 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 408 Iris Lane (Formerly 1133 Iris Lane). The sampling activities at 408 Iris Lane (Formerly 1133 Iris Lane) comprised a soil investigation, IGWA activities and installation and sampling of a permanent well. Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 1133 Iris Lane* (MCAS Beaufort, 2013). The UST Assessment Report is provided in Appendix B. Details regarding the IGWA activities at this site are provided in the *Initial Groundwater Investigation Report – May and June 2015* (Resolution Consultants, 2015). Appendix C is reserved for the laboratory analytical results of the IGWA; however, due to

detection of free product, a groundwater sample could not be collected from this location. 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

In October 2012, two 280 gallon heating oil USTs were removed from 408 Iris Lane (Formerly 1133 Iris Lane). Tank 1 was removed on October 24, 2012 from underneath the rear concrete patio. Tank 2 was removed on October 30, 2012 from the rear area, adjacent to the concrete patio. The former UST locations are indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). The USTs were 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 removals. According to the UST Assessment Report (Appendix B), the depths to the bases of the USTs were 4'8" bgs (Tank 1) and 4'9" bgs (Tank 2) and a single soil sample was collected for each from those depths. The samples were collected from the fill port side of the former UST to represent a worst case scenario.

Following UST removals, soil samples were collected from the bases of the excavations 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 locations (Tank 1 and Tank 2) 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 408 Iris Lane (Formerly 1133 Iris Lane) for Tank 1 were greater than the SCDHEC RBSLs, which indicated further investigation was required. In a letter dated May 15,

2014, SCDHEC requested an IGWA for 408 Iris Lane (Formerly 1133 Iris Lane) 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 May 26, 2015, a temporary monitoring well was installed at 408 Iris Lane (Formerly 1133 Iris Lane), in accordance with the South Carolina Well Standards and Regulations (R.61-71.H-I, updated June 24, 2016). In order to provide data that can be used to determine whether COPCs are migrating to underlying groundwater, the monitoring well was placed in the same general location as the former heating oil UST (Tank 1). 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, free product was detected in the temporary well. Due to detection of free product, a groundwater sample could not be collected from this location. 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

Due to detection of free product, a groundwater sample was unable to be collected from 408 Iris Lane (Formerly 1133 Iris Lane) and further investigation was required. A summary of the free product measurement is presented in Table 2. In a letter dated February 22, 2016, SCDHEC requested a permanent well be installed for 408 Iris Lane (Formerly 1133 Iris Lane) to confirm the impact to groundwater detected in the temporary well. SCDHEC's request letter is provided in Appendix E.

2.5 Permanent Well Groundwater Sampling

On July 7, 2016, a permanent monitoring well was installed at 408 Iris Lane (Formerly 1133 Iris Lane), in accordance with the South Carolina Well Standards and Regulations (R.61-71.H-I, updated June 24, 2016). In order to provide data that can be used to determine whether

COPCs are migrating to underlying groundwater, the monitoring well was placed in the same general location as the former heating oil UST (Tank 1) 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. No free product was detected in the permanent monitoring well. 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 408 Iris Lane (Formerly 1133 Iris Lane) 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 USTs 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 408 Iris Lane (Formerly 1133 Iris Lane). 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 – 1133 Iris Lane, Laurel Bay Military Housing Area*, February 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
408 Iris Lane (Formerly 1133 Iris Lane)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Results Sample Collected 10/24/12 and 10/30/12	
		1133 Iris 10/24/12	1133 Iris - 2 10/30/12
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)			
Benzene	0.003	ND	ND
Ethylbenzene	1.15	0.901	ND
Naphthalene	0.036	4.80	ND
Toluene	0.627	ND	ND
Xylenes, Total	13.01	3.32	ND
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (mg/kg)			
Benzo(a)anthracene	0.066	ND	ND
Benzo(b)fluoranthene	0.066	ND	ND
Benzo(k)fluoranthene	0.066	ND	ND
Chrysene	0.066	ND	ND
Dibenz(a,h)anthracene	0.066	ND	ND

Notes:

⁽¹⁾ 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
 Free Product Measurement - Initial Groundwater
 408 Iris Lane (Formerly 1133 Iris Lane)
 Laurel Bay Military Housing Area
 Marine Corps Air Station Beaufort
 Beaufort, South Carolina

Temporary Well ID	Date Installed	Date Measured	Measured Well Depth (feet bgs)	Depth to Product (feet bgs)	Depth to Groundwater (feet bgs)	Free Product Thickness (feet)
BEALB1133-TW01	5/26/2015	5/26/2015	13.70	5.14	5.15	0.01

Notes:

bgs - below ground surface

TW - temporary well

Table 3
Laboratory Analytical Results - Permanent Well Groundwater
408 Iris Lane (Formerly 1133 Iris Lane)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Site-Specific Groundwater VISLs (µg/L) ⁽²⁾	Results Sample Collected 07/26/16
Volatile Organic Compounds Analyzed by EPA Method 8260B (µg/L)			
Benzene	5	16.24	ND
Ethylbenzene	700	45.95	ND
Naphthalene	25	29.33	0.45
Toluene	1000	105,445	ND
Xylenes, Total	10,000	2,133	ND
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (µg/L)			
Benzo(a)anthracene	10	NA	ND
Benzo(b)fluoranthene	10	NA	ND
Benzo(k)fluoranthene	10	NA	ND
Chrysene	10	NA	ND
Dibenz(a,h)anthracene	10	NA	ND

Notes:

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

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

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

JE - Johnson & Ettinger

NA - not applicable

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

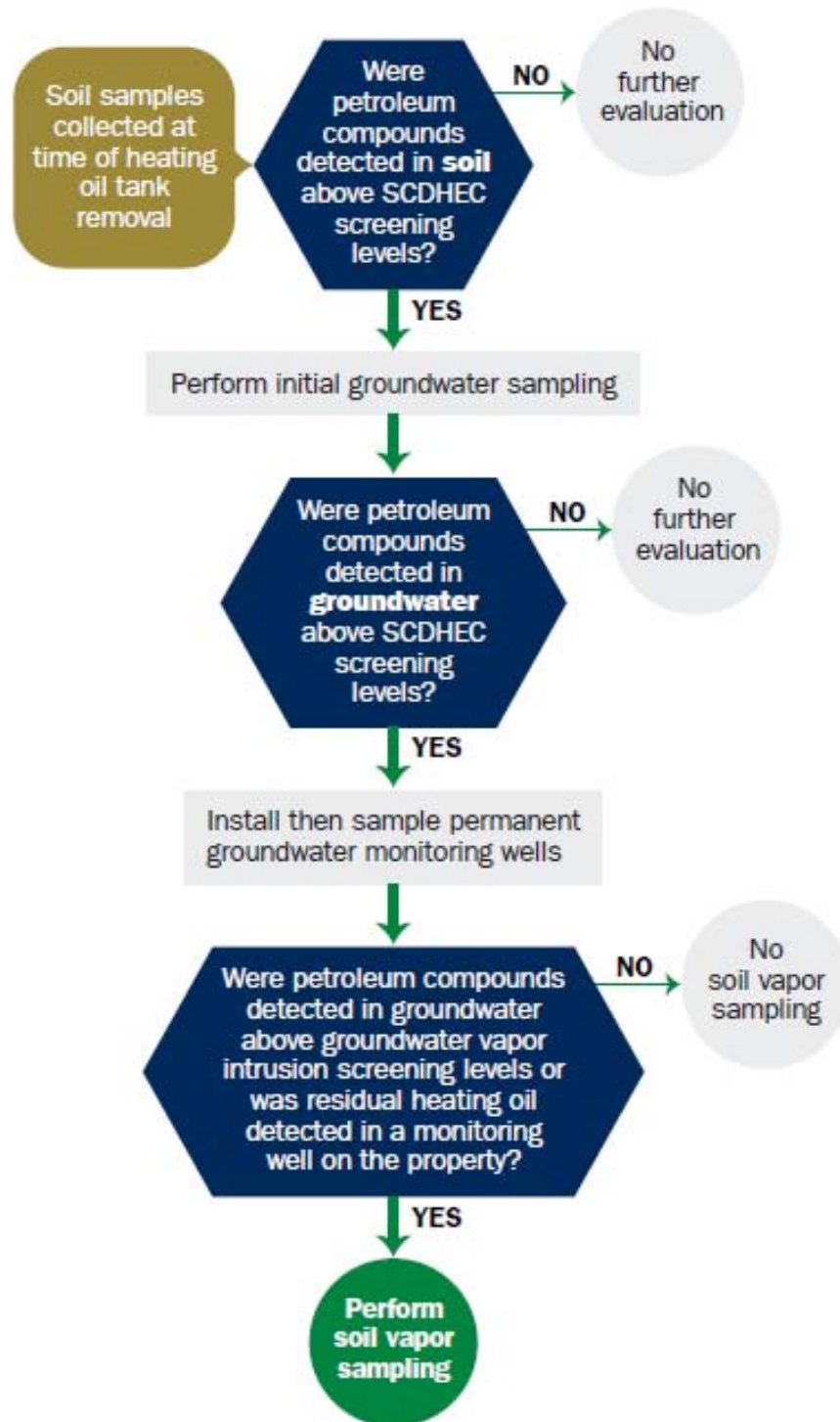
RBSL - Risk-Based Screening Level

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

Date Received
State Use Only

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

I. OWNERSHIP OF UST (S)

MCAS Beaufort, Commanding Officer Attn: NREAO (Craig Ehde)		
Owner Name (Corporation, Individual, Public Agency, Other)		
P.O. Box 55001		
Mailing Address		
Beaufort,	South Carolina	29904-5001
City	State	Zip Code
843	228-7317	Craig Ehde
Area Code	Telephone Number	Contact Person

II. SITE IDENTIFICATION AND LOCATION

Permit I.D. #	
Laurel Bay Military Housing Area, Marine Corps Air Station, Beaufort, SC	
Facility Name or Company Site Identifier	
1133 Iris Lane, Laurel Bay Military Housing Area	
Street Address or State Road (as applicable)	
Beaufort,	Beaufort
City	County

Attachment 2

III. INSURANCE INFORMATION

Insurance Statement

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

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

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

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

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

IV. REQUEST FOR SUPERB FUNDING

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

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

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

Name (Type or print.)

Signature

To be completed by Notary Public:

Sworn before me this _____ day of _____, 20____

(Name)

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

VI. UST INFORMATION

- 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.....

1133Iris	1133Iris-2	
Heating oil	Heating oil	
280 gal	280 gal	
Late 1950s	Late 1950s	
Steel	Steel	
Mid 80s	Mid 80s	
4'8"	4'9"	
No	No	
No	No	
Removed	Removed	
10/24/2012	10/30/2012	
Yes	Yes	
Yes	Yes	

- M. Method of disposal for any USTs removed from the ground (attach disposal manifests)
UST 1133Iris was removed from the ground and disposed at a
Subtitle "D" landfill. See Attachment "A".
UST 1133Iris-2 was removed from the ground, cleaned and recycled.
- N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests)
UST 1133Iris was previously filled with sand by others.
Contaminated water was pumped from 1133Iris-2 and disposed by MCAS.
- O. If any corrosion, pitting, or holes were observed, describe the location and extent for each UST
Corrosion, pitting and holes were found in both tanks.

VII. PIPING INFORMATION

A. Construction Material..(ex. Steel, FRP).....

B. Distance from UST to Dispenser.....

C. Number of Dispensers.....

D. Type of System Pressure or Suction.....

E. Was Piping Removed from the Ground? Y/N

F. Visible Corrosion or Pitting Y/N.....

G. Visible Holes Y/N.....

H. Age.....

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

1133Iris	1133Iris-2	
Steel & Copper	Steel & Copper	
N/A	N/A	
N/A	N/A	
Suction	Suction	
No	No	
Yes	Yes	
No	No	
Late 1950s	Late 1950s	

Steel vent piping for both tanks were corroded and pitted. All

copper supply and return piping 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 #
1133 Iris	Excav at fill end	Soil	Sandy	4'8"	10/24/12 1445 hrs	P. Shaw	
1133 Iris-2	Excav at fill end	Soil	Sandy	4'9"	10/30/12 1515 hrs	P. Shaw	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

* = Depth Below the Surrounding Land Surface

XI. SAMPLING METHODOLOGY

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

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

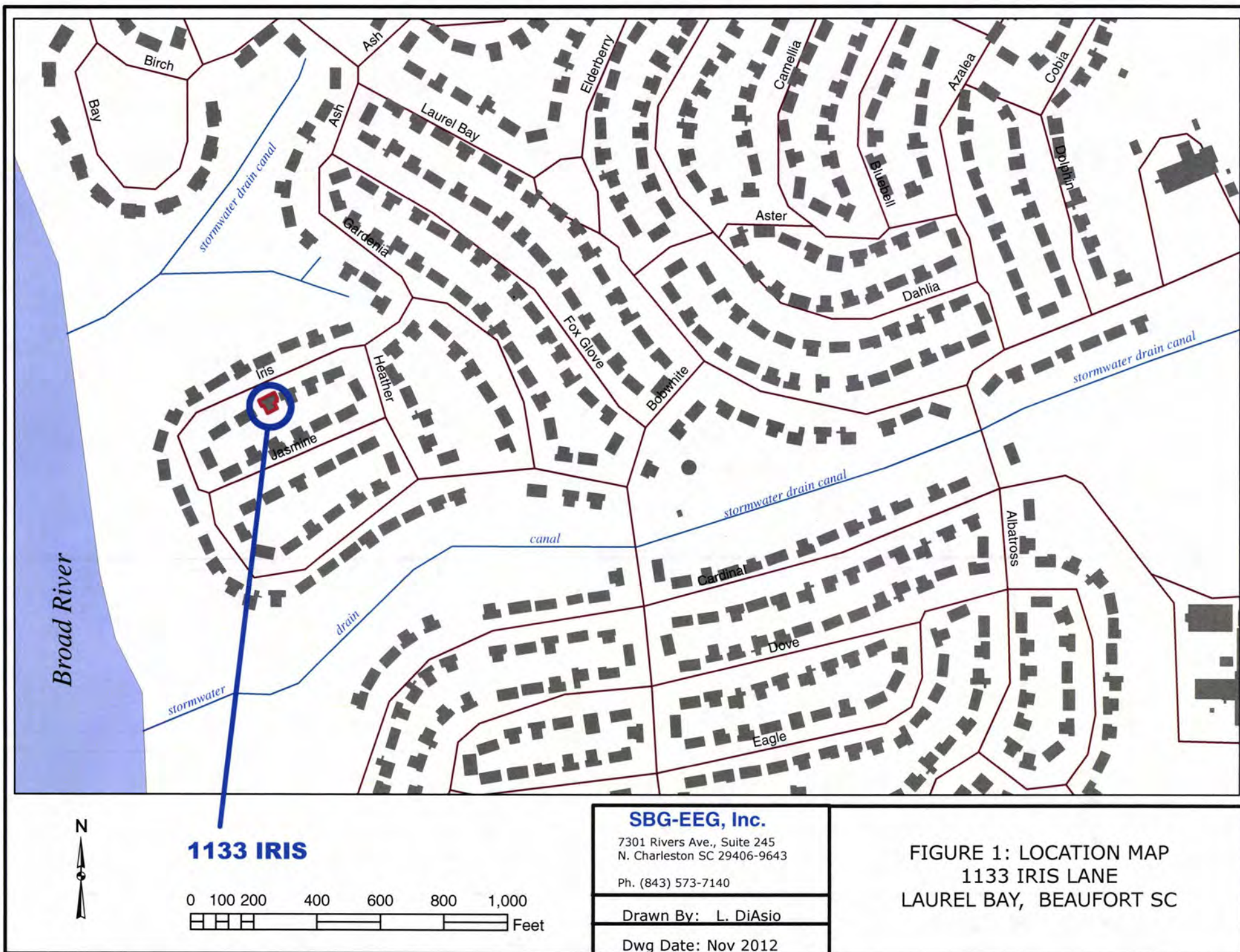
XII. RECEPTORS

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

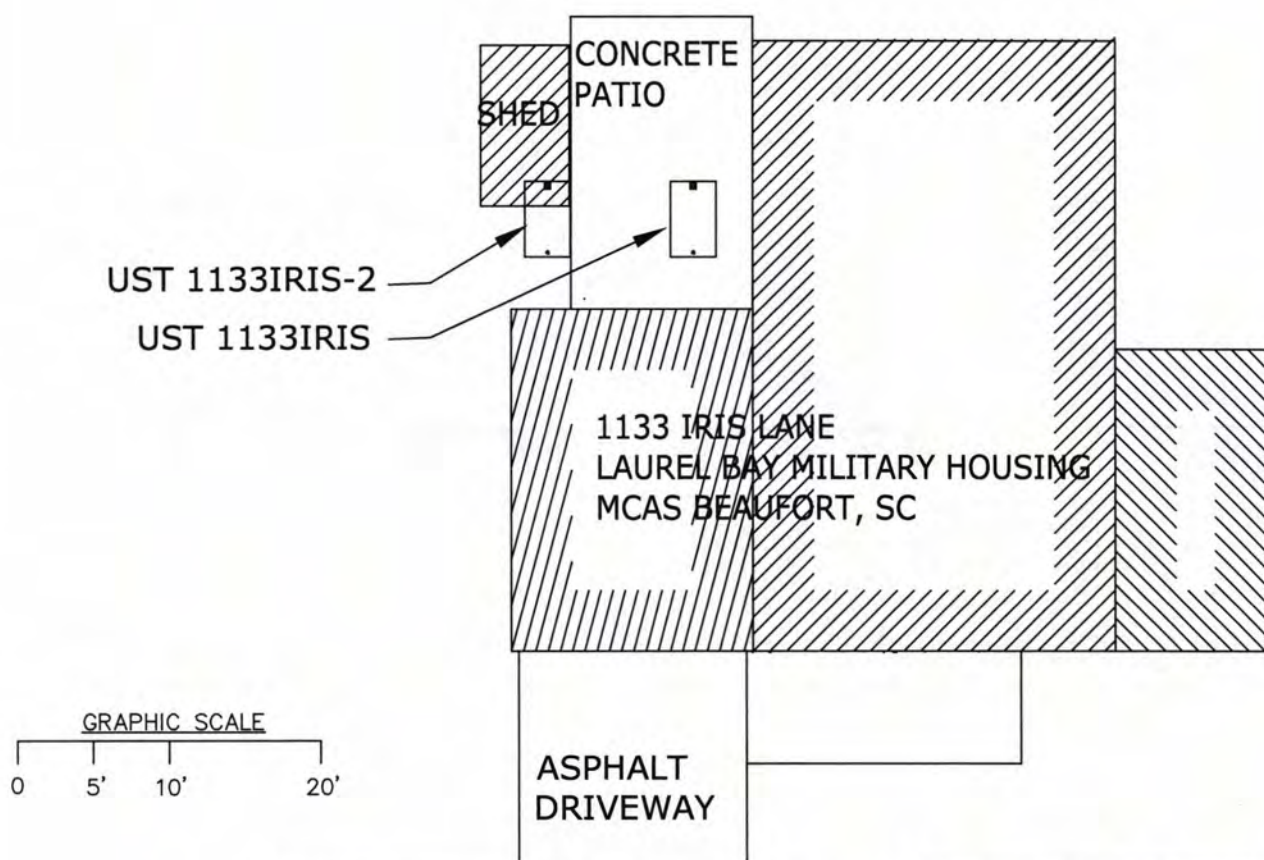
XIII. SITE MAP

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)



STORMWATER CANAL \approx 320'
BROAD RIVER \approx 675'



TANK DEPTH BELOW GRADE
1133IRIS = 20"
1133IRIS-2 = 21"

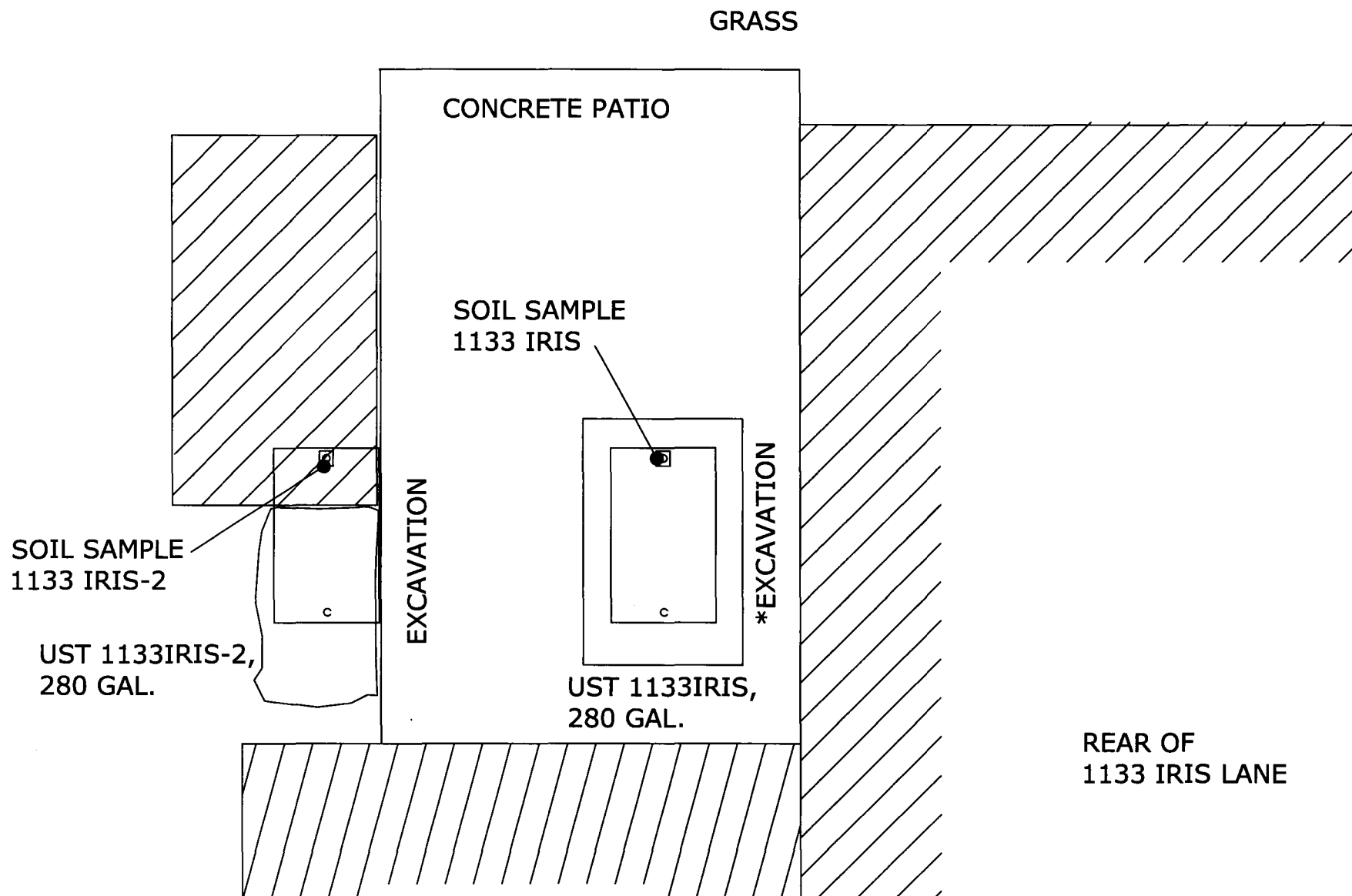
SBG-EEG

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

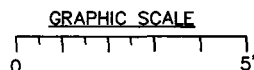
FIGURE 2 SITE MAP
1133 IRIS LANE, LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE NOV 2012



*NOTE: A PORTION OF THE PATIO
WAS REMOVED TO FACILITATE
TANK EXTRACTION.



SBG-EEG

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

FIGURE 3 UST SAMPLE LOCATIONS
1133 IRIS LANE, LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE NOV 2012



Picture 1: Location tanks at 1133 Iris Lane. UST 1133Iris under the patio in the background, and UST 1133Iris-2 in the foreground.



Picture 2 Excavation for UST 1133Iris.



Picture 3 Location of UST 1133Iris-2.



Picture 4: UST 1102Iris-2 excavation.

XIV. SUMMARY OF ANALYSIS RESULTS

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

CoC	UST	1133Iris		1133Iris-2			
Benzene		ND		ND			
Toluene		ND		ND			
Ethylbenzene		0.901 mg/kg		ND			
Xylenes		3.32 mg/kg		ND			
Naphthalene		4.80 mg/kg		ND			
Benzo (a) anthracene		ND		ND			
Benzo (b) fluoranthene		ND		ND			
Benzo (k) fluoranthene		ND		ND			
Chrysene		ND		ND			
Dibenz (a, h) anthracene		ND		ND			
TPH (EPA 3550)							

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

SUMMARY OF ANALYSIS RESULTS (cont'd)

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

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

XV. ANALYTICAL RESULTS

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

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

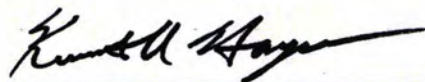
TestAmerica Job ID: 490-10215-1

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:
11/12/2012 3:53:19 PM

Ken Hayes
Project Manager I
ken.hayes@testamericainc.com

LINKS

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results through

TotalAccess

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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: 490-10215-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-10215-1	1179 Bobwhite	Solid	10/22/12 16:30	10/30/12 08:30
490-10215-2	1374 Dove	Solid	10/22/12 16:30	10/30/12 08:30
490-10215-3	1221 Cardinal	Solid	10/23/12 14:45	10/30/12 08:30
490-10215-4	1133 Iris	Solid	10/24/12 14:45	10/30/12 08:30
490-10215-5	1102 Iris-1	Solid	10/25/12 15:15	10/30/12 08:30
490-10215-6	1103 Iris	Solid	10/25/12 15:00	10/30/12 08:30

Case Narrative

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

TestAmerica Job ID: 490-10215-1

Job ID: 490-10215-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-10215-1

Comments

No additional comments.

Receipt

The samples were received on 10/30/2012 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.7° C.

GC/MS VOA

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside control limits: 1102 Iris-1 (490-10215-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No other analytical or quality issues were noted.

GC/MS Semi VOA

No 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: 490-10215-1

Qualifiers

GC/MS 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.
X	Surrogate is outside control limits

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.

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
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
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
RER	Relative error ratio
DER	Duplicate error ratio (normalized absolute difference)
DLC	Decision level concentration
RL	Reporting Limit or Requested Limit (Radiochemistry only)

Client Sample Results

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

TestAmerica Job ID: 490-10215-1

Client Sample ID: 1179 Bobwhite

Lab Sample ID: 490-10215-1

Date Collected: 10/22/12 16:30

Matrix: Solid

Date Received: 10/30/12 08:30

Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00223	0.000746	mg/Kg	☒	10/30/12 15:55	11/02/12 15:07	1
Ethylbenzene	ND		0.00223	0.000746	mg/Kg	☒	10/30/12 15:55	11/02/12 15:07	1
Naphthalene	0.00265	J	0.00557	0.00189	mg/Kg	☒	10/30/12 15:55	11/02/12 15:07	1
Toluene	ND		0.00223	0.000824	mg/Kg	☒	10/30/12 15:55	11/02/12 15:07	1
Xylenes, Total	ND		0.00557	0.000746	mg/Kg	☒	10/30/12 15:55	11/02/12 15:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 130	10/30/12 15:55	11/02/12 15:07	1
4-Bromofluorobenzene (Surr)	101		70 - 130	10/30/12 15:55	11/02/12 15:07	1
Dibromofluoromethane (Surr)	98		70 - 130	10/30/12 15:55	11/02/12 15:07	1
Toluene-d8 (Surr)	95		70 - 130	10/30/12 15:55	11/02/12 15:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0658	0.00983	mg/Kg	☒	11/05/12 10:11	11/05/12 20:25	1
Acenaphthylene	ND		0.0658	0.00884	mg/Kg	☒	11/05/12 10:11	11/05/12 20:25	1
Anthracene	ND		0.0658	0.00884	mg/Kg	☒	11/05/12 10:11	11/05/12 20:25	1
Benzo[a]anthracene	ND		0.0658	0.0147	mg/Kg	☒	11/05/12 10:11	11/05/12 20:25	1
Benzo[a]pyrene	ND		0.0658	0.0118	mg/Kg	☒	11/05/12 10:11	11/05/12 20:25	1
Benzo[b]fluoranthene	ND		0.0658	0.0118	mg/Kg	☒	11/05/12 10:11	11/05/12 20:25	1
Benzo[g,h,i]perylene	ND		0.0658	0.00884	mg/Kg	☒	11/05/12 10:11	11/05/12 20:25	1
Benzo[k]fluoranthene	ND		0.0658	0.0138	mg/Kg	☒	11/05/12 10:11	11/05/12 20:25	1
1-Methylnaphthalene	ND		0.0658	0.0138	mg/Kg	☒	11/05/12 10:11	11/05/12 20:25	1
Pyrene	0.0403	J	0.0658	0.0118	mg/Kg	☒	11/05/12 10:11	11/05/12 20:25	1
Phenanthrene	ND		0.0658	0.00884	mg/Kg	☒	11/05/12 10:11	11/05/12 20:25	1
Chrysene	ND		0.0658	0.00884	mg/Kg	☒	11/05/12 10:11	11/05/12 20:25	1
Dibenz(a,h)anthracene	ND		0.0658	0.00688	mg/Kg	☒	11/05/12 10:11	11/05/12 20:25	1
Fluoranthene	0.0416	J	0.0658	0.00884	mg/Kg	☒	11/05/12 10:11	11/05/12 20:25	1
Fluorene	ND		0.0658	0.0118	mg/Kg	☒	11/05/12 10:11	11/05/12 20:25	1
Indeno[1,2,3-cd]pyrene	0.0525	J	0.0658	0.00983	mg/Kg	☒	11/05/12 10:11	11/05/12 20:25	1
Naphthalene	ND		0.0658	0.00884	mg/Kg	☒	11/05/12 10:11	11/05/12 20:25	1
2-Methylnaphthalene	ND		0.0658	0.0157	mg/Kg	☒	11/05/12 10:11	11/05/12 20:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	46		29 - 120	11/05/12 10:11	11/05/12 20:25	1
Terphenyl-d14 (Surr)	57		13 - 120	11/05/12 10:11	11/05/12 20:25	1
Nitrobenzene-d5 (Surr)	52		27 - 120	11/05/12 10:11	11/05/12 20:25	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88		0.10	0.10	%			10/31/12 13:47	1

Client Sample Results

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

TestAmerica Job ID: 490-10215-1

Client Sample ID: 1374 Dove

Date Collected: 10/22/12 16:30

Date Received: 10/30/12 08:30

Lab Sample ID: 490-10215-2

Matrix: Solid

Percent Solids: 92.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00217	0.000728	mg/Kg	☒	10/30/12 15:55	11/02/12 14:37	1
Ethylbenzene	ND		0.00217	0.000728	mg/Kg	☒	10/30/12 15:55	11/02/12 14:37	1
Naphthalene	0.00491	J	0.00543	0.00185	mg/Kg	☒	10/30/12 15:55	11/02/12 14:37	1
Toluene	ND		0.00217	0.000804	mg/Kg	☒	10/30/12 15:55	11/02/12 14:37	1
Xylenes, Total	ND		0.00543	0.000728	mg/Kg	☒	10/30/12 15:55	11/02/12 14:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130	10/30/12 15:55	11/02/12 14:37	1
4-Bromofluorobenzene (Surr)	109		70 - 130	10/30/12 15:55	11/02/12 14:37	1
Dibromofluoromethane (Surr)	98		70 - 130	10/30/12 15:55	11/02/12 14:37	1
Toluene-d8 (Surr)	97		70 - 130	10/30/12 15:55	11/02/12 14:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0653	0.00974	mg/Kg	☒	11/05/12 10:11	11/05/12 20:46	1
Acenaphthylene	ND		0.0653	0.00877	mg/Kg	☒	11/05/12 10:11	11/05/12 20:46	1
Anthracene	ND		0.0653	0.00877	mg/Kg	☒	11/05/12 10:11	11/05/12 20:46	1
Benzo[a]anthracene	ND		0.0653	0.0146	mg/Kg	☒	11/05/12 10:11	11/05/12 20:46	1
Benzo[a]pyrene	ND		0.0653	0.0117	mg/Kg	☒	11/05/12 10:11	11/05/12 20:46	1
Benzo[b]fluoranthene	ND		0.0653	0.0117	mg/Kg	☒	11/05/12 10:11	11/05/12 20:46	1
Benzo[g,h,i]perylene	ND		0.0653	0.00877	mg/Kg	☒	11/05/12 10:11	11/05/12 20:46	1
Benzo[k]fluoranthene	ND		0.0653	0.0136	mg/Kg	☒	11/05/12 10:11	11/05/12 20:46	1
1-Methylnaphthalene	ND		0.0653	0.0136	mg/Kg	☒	11/05/12 10:11	11/05/12 20:46	1
Pyrene	ND		0.0653	0.0117	mg/Kg	☒	11/05/12 10:11	11/05/12 20:46	1
Phenanthrene	ND		0.0653	0.00877	mg/Kg	☒	11/05/12 10:11	11/05/12 20:46	1
Chrysene	ND		0.0653	0.00877	mg/Kg	☒	11/05/12 10:11	11/05/12 20:46	1
Dibenz(a,h)anthracene	ND		0.0653	0.00682	mg/Kg	☒	11/05/12 10:11	11/05/12 20:46	1
Fluoranthene	ND		0.0653	0.00877	mg/Kg	☒	11/05/12 10:11	11/05/12 20:46	1
Fluorene	ND		0.0653	0.0117	mg/Kg	☒	11/05/12 10:11	11/05/12 20:46	1
Indeno[1,2,3-cd]pyrene	ND		0.0653	0.00974	mg/Kg	☒	11/05/12 10:11	11/05/12 20:46	1
Naphthalene	ND		0.0653	0.00877	mg/Kg	☒	11/05/12 10:11	11/05/12 20:46	1
2-Methylnaphthalene	ND		0.0653	0.0156	mg/Kg	☒	11/05/12 10:11	11/05/12 20:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	50		29 - 120	11/05/12 10:11	11/05/12 20:46	1
Terphenyl-d14 (Surr)	66		13 - 120	11/05/12 10:11	11/05/12 20:46	1
Nitrobenzene-d5 (Surr)	54		27 - 120	11/05/12 10:11	11/05/12 20:46	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	93		0.10	0.10	%			10/31/12 13:47	1

Client Sample Results

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

TestAmerica Job ID: 490-10215-1

Client Sample ID: 1221 Cardinal

Lab Sample ID: 490-10215-3

Date Collected: 10/23/12 14:45

Matrix: Solid

Date Received: 10/30/12 08:30

Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00228	0.000764	mg/Kg	☒	10/30/12 15:55	11/05/12 13:31	1
Ethylbenzene	ND		0.00228	0.000764	mg/Kg	☒	10/30/12 15:55	11/05/12 13:31	1
Naphthalene	0.00335	J	0.00570	0.00194	mg/Kg	☒	10/30/12 15:55	11/05/12 13:31	1
Toluene	0.000879	J	0.00228	0.000843	mg/Kg	☒	10/30/12 15:55	11/05/12 13:31	1
Xylenes, Total	ND		0.00570	0.000764	mg/Kg	☒	10/30/12 15:55	11/05/12 13:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130	10/30/12 15:55	11/05/12 13:31	1
4-Bromofluorobenzene (Surr)	117		70 - 130	10/30/12 15:55	11/05/12 13:31	1
Dibromofluoromethane (Surr)	100		70 - 130	10/30/12 15:55	11/05/12 13:31	1
Toluene-d8 (Surr)	94		70 - 130	10/30/12 15:55	11/05/12 13:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0653	0.00974	mg/Kg	☒	11/05/12 10:11	11/05/12 21:07	1
Acenaphthylene	ND		0.0653	0.00877	mg/Kg	☒	11/05/12 10:11	11/05/12 21:07	1
Anthracene	ND		0.0653	0.00877	mg/Kg	☒	11/05/12 10:11	11/05/12 21:07	1
Benzo[a]anthracene	ND		0.0653	0.0146	mg/Kg	☒	11/05/12 10:11	11/05/12 21:07	1
Benzo[a]pyrene	ND		0.0653	0.0117	mg/Kg	☒	11/05/12 10:11	11/05/12 21:07	1
Benzo[b]fluoranthene	ND		0.0653	0.0117	mg/Kg	☒	11/05/12 10:11	11/05/12 21:07	1
Benzo[g,h,i]perylene	ND		0.0653	0.00877	mg/Kg	☒	11/05/12 10:11	11/05/12 21:07	1
Benzo[k]fluoranthene	ND		0.0653	0.0136	mg/Kg	☒	11/05/12 10:11	11/05/12 21:07	1
1-Methylnaphthalene	ND		0.0653	0.0136	mg/Kg	☒	11/05/12 10:11	11/05/12 21:07	1
Pyrene	ND		0.0653	0.0117	mg/Kg	☒	11/05/12 10:11	11/05/12 21:07	1
Phenanthrene	ND		0.0653	0.00877	mg/Kg	☒	11/05/12 10:11	11/05/12 21:07	1
Chrysene	ND		0.0653	0.00877	mg/Kg	☒	11/05/12 10:11	11/05/12 21:07	1
Dibenz(a,h)anthracene	ND		0.0653	0.00682	mg/Kg	☒	11/05/12 10:11	11/05/12 21:07	1
Fluoranthene	ND		0.0653	0.00877	mg/Kg	☒	11/05/12 10:11	11/05/12 21:07	1
Fluorene	ND		0.0653	0.0117	mg/Kg	☒	11/05/12 10:11	11/05/12 21:07	1
Indeno[1,2,3-cd]pyrene	ND		0.0653	0.00974	mg/Kg	☒	11/05/12 10:11	11/05/12 21:07	1
Naphthalene	ND		0.0653	0.00877	mg/Kg	☒	11/05/12 10:11	11/05/12 21:07	1
2-Methylnaphthalene	ND		0.0653	0.0156	mg/Kg	☒	11/05/12 10:11	11/05/12 21:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	46		29 - 120	11/05/12 10:11	11/05/12 21:07	1
Terphenyl-d14 (Surr)	53		13 - 120	11/05/12 10:11	11/05/12 21:07	1
Nitrobenzene-d5 (Surr)	45		27 - 120	11/05/12 10:11	11/05/12 21:07	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88		0.10	0.10	%			10/31/12 13:47	1

Client Sample Results

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

TestAmerica Job ID: 490-10215-1

Client Sample ID: 1133 Iris

Date Collected: 10/24/12 14:45

Date Received: 10/30/12 08:30

Lab Sample ID: 490-10215-4

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		0.00200	0.000671	mg/Kg	☒	10/30/12 15:55	11/02/12 13:35	1
Ethylbenzene	0.901		0.127	0.0431	mg/Kg	☒	10/30/12 15:54	11/05/12 15:34	1
Naphthalene	4.80		0.317	0.108	mg/Kg	☒	10/30/12 15:54	11/05/12 15:34	1
Toluene	ND		0.00200	0.000741	mg/Kg	☒	10/30/12 15:55	11/02/12 13:35	1
Xylenes, Total	3.32		0.317	0.0431	mg/Kg	☒	10/30/12 15:54	11/05/12 15:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 130	10/30/12 15:55	11/02/12 13:35	1
1,2-Dichloroethane-d4 (Surr)	85		70 - 130	10/30/12 15:54	11/05/12 15:34	1
4-Bromofluorobenzene (Surr)	98		70 - 130	10/30/12 15:55	11/02/12 13:35	1
4-Bromofluorobenzene (Surr)	84		70 - 130	10/30/12 15:54	11/05/12 15:34	1
Dibromofluoromethane (Surr)	94		70 - 130	10/30/12 15:55	11/02/12 13:35	1
Dibromofluoromethane (Surr)	94		70 - 130	10/30/12 15:54	11/05/12 15:34	1
Toluene-d8 (Surr)	110		70 - 130	10/30/12 15:55	11/02/12 13:35	1
Toluene-d8 (Surr)	95		70 - 130	10/30/12 15:54	11/05/12 15:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.47		0.0669	0.00999	mg/Kg	☒	11/05/12 10:11	11/05/12 21:28	1
Acenaphthylene	0.385		0.0669	0.00899	mg/Kg	☒	11/05/12 10:11	11/05/12 21:28	1
Anthracene	0.781		0.0669	0.00899	mg/Kg	☒	11/05/12 10:11	11/05/12 21:28	1
Benzo[a]anthracene	ND		0.0669	0.0150	mg/Kg	☒	11/05/12 10:11	11/05/12 21:28	1
Benzo[a]pyrene	ND		0.0669	0.0120	mg/Kg	☒	11/05/12 10:11	11/05/12 21:28	1
Benzo[b]fluoranthene	ND		0.0669	0.0120	mg/Kg	☒	11/05/12 10:11	11/05/12 21:28	1
Benzo[g,h,i]perylene	ND		0.0669	0.00899	mg/Kg	☒	11/05/12 10:11	11/05/12 21:28	1
Benzo[k]fluoranthene	ND		0.0669	0.0140	mg/Kg	☒	11/05/12 10:11	11/05/12 21:28	1
1-Methylnaphthalene	19.1		1.34	0.280	mg/Kg	☒	11/05/12 10:11	11/07/12 13:27	20
Pyrene	0.402		0.0669	0.0120	mg/Kg	☒	11/05/12 10:11	11/05/12 21:28	1
Phenanthrene	5.57		0.335	0.0450	mg/Kg	☒	11/05/12 10:11	11/06/12 12:58	5
Chrysene	ND		0.0669	0.00899	mg/Kg	☒	11/05/12 10:11	11/05/12 21:28	1
Dibenz(a,h)anthracene	ND		0.0669	0.00699	mg/Kg	☒	11/05/12 10:11	11/05/12 21:28	1
Fluoranthene	0.142		0.0669	0.00899	mg/Kg	☒	11/05/12 10:11	11/05/12 21:28	1
Fluorene	2.29		0.0669	0.0120	mg/Kg	☒	11/05/12 10:11	11/05/12 21:28	1
Indeno[1,2,3-cd]pyrene	ND		0.0669	0.00999	mg/Kg	☒	11/05/12 10:11	11/05/12 21:28	1
Naphthalene	6.49		0.335	0.0450	mg/Kg	☒	11/05/12 10:11	11/06/12 12:58	5
2-Methylnaphthalene	28.4		1.34	0.320	mg/Kg	☒	11/05/12 10:11	11/07/12 13:27	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	41		29 - 120	11/05/12 10:11	11/05/12 21:28	1
2-Fluorobiphenyl (Surr)	56		29 - 120	11/05/12 10:11	11/07/12 13:27	20
Terphenyl-d14 (Surr)	49		13 - 120	11/05/12 10:11	11/05/12 21:28	1
Terphenyl-d14 (Surr)	48		13 - 120	11/05/12 10:11	11/07/12 13:27	20
Nitrobenzene-d5 (Surr)	58		27 - 120	11/05/12 10:11	11/05/12 21:28	1
Nitrobenzene-d5 (Surr)	99		27 - 120	11/05/12 10:11	11/07/12 13:27	20

General Chemistry

Analyte	Result	Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79		0.10	0.10 %			10/31/12 13:47	1

Client Sample Results

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

TestAmerica Job ID: 490-10215-1

Client Sample ID: 1102 Iris-1

Lab Sample ID: 490-10215-5

Date Collected: 10/25/12 15:15

Matrix: Solid

Date Received: 10/30/12 08:30

Percent Solids: 77.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00235	0.000787	mg/Kg	☒	10/30/12 15:55	11/02/12 13:04	1
Ethylbenzene	0.567		0.139	0.0474	mg/Kg	☒	10/30/12 15:54	11/05/12 12:54	1
Naphthalene	13.4		0.348	0.118	mg/Kg	☒	10/30/12 15:54	11/05/12 12:54	1
Toluene	0.00296		0.00235	0.000869	mg/Kg	☒	10/30/12 15:55	11/02/12 13:04	1
Xylenes, Total	0.0534		0.00587	0.000787	mg/Kg	☒	10/30/12 15:55	11/02/12 13:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 130	10/30/12 15:55	11/02/12 13:04	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130	10/30/12 15:54	11/05/12 12:54	1
4-Bromofluorobenzene (Surr)	552	X	70 - 130	10/30/12 15:55	11/02/12 13:04	1
4-Bromofluorobenzene (Surr)	79		70 - 130	10/30/12 15:54	11/05/12 12:54	1
Dibromofluoromethane (Surr)	115		70 - 130	10/30/12 15:55	11/02/12 13:04	1
Dibromofluoromethane (Surr)	100		70 - 130	10/30/12 15:54	11/05/12 12:54	1
Toluene-d8 (Surr)	202	X	70 - 130	10/30/12 15:55	11/02/12 13:04	1
Toluene-d8 (Surr)	101		70 - 130	10/30/12 15:54	11/05/12 12:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.813		0.0664	0.00992	mg/Kg	☒	11/05/12 10:11	11/05/12 21:49	1
Acenaphthylene	0.225		0.0664	0.00893	mg/Kg	☒	11/05/12 10:11	11/05/12 21:49	1
Anthracene	0.584		0.0664	0.00893	mg/Kg	☒	11/05/12 10:11	11/05/12 21:49	1
Benzo[a]anthracene	0.372		0.0664	0.0149	mg/Kg	☒	11/05/12 10:11	11/05/12 21:49	1
Benzo[a]pyrene	0.0510	J	0.0664	0.0119	mg/Kg	☒	11/05/12 10:11	11/05/12 21:49	1
Benzo[b]fluoranthene	0.0772		0.0664	0.0119	mg/Kg	☒	11/05/12 10:11	11/05/12 21:49	1
Benzo[g,h,i]perylene	0.0527	J	0.0664	0.00893	mg/Kg	☒	11/05/12 10:11	11/05/12 21:49	1
Benzo[k]fluoranthene	0.0459	J	0.0664	0.0139	mg/Kg	☒	11/05/12 10:11	11/05/12 21:49	1
1-Methylnaphthalene	14.5		0.332	0.0694	mg/Kg	☒	11/05/12 10:11	11/06/12 13:19	5
Pyrene	5.05		0.332	0.0595	mg/Kg	☒	11/05/12 10:11	11/06/12 13:19	5
Phenanthrene	7.61		0.332	0.0446	mg/Kg	☒	11/05/12 10:11	11/06/12 13:19	5
Chrysene	0.227		0.0664	0.00893	mg/Kg	☒	11/05/12 10:11	11/05/12 21:49	1
Dibenz(a,h)anthracene	ND		0.0664	0.00694	mg/Kg	☒	11/05/12 10:11	11/05/12 21:49	1
Fluoranthene	7.51		0.332	0.0446	mg/Kg	☒	11/05/12 10:11	11/06/12 13:19	5
Fluorene	1.13		0.0664	0.0119	mg/Kg	☒	11/05/12 10:11	11/05/12 21:49	1
Indeno[1,2,3-cd]pyrene	0.0590	J	0.0664	0.00992	mg/Kg	☒	11/05/12 10:11	11/05/12 21:49	1
Naphthalene	5.67		0.332	0.0446	mg/Kg	☒	11/05/12 10:11	11/06/12 13:19	5
2-Methylnaphthalene	21.9		1.33	0.317	mg/Kg	☒	11/05/12 10:11	11/07/12 13:48	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	36		29 - 120	11/05/12 10:11	11/05/12 21:49	1
2-Fluorobiphenyl (Surr)	48		29 - 120	11/05/12 10:11	11/07/12 13:48	20
Terphenyl-d14 (Surr)	37		13 - 120	11/05/12 10:11	11/05/12 21:49	1
Terphenyl-d14 (Surr)	44		13 - 120	11/05/12 10:11	11/07/12 13:48	20
Nitrobenzene-d5 (Surr)	78		27 - 120	11/05/12 10:11	11/05/12 21:49	1
Nitrobenzene-d5 (Surr)	93		27 - 120	11/05/12 10:11	11/07/12 13:48	20

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78		0.10	0.10	%			10/31/12 13:47	1

Client Sample Results

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

TestAmerica Job ID: 490-10215-1

Client Sample ID: 1103 Iris

Date Collected: 10/25/12 15:00

Date Received: 10/30/12 08:30

Lab Sample ID: 490-10215-6

Matrix: Solid

Percent Solids: 86.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00198	0.000665	mg/Kg	☒	10/30/12 15:55	11/02/12 12:32	1
Ethylbenzene	ND		0.00198	0.000665	mg/Kg	☒	10/30/12 15:55	11/02/12 12:32	1
Naphthalene	ND		0.00496	0.00169	mg/Kg	☒	10/30/12 15:55	11/02/12 12:32	1
Toluene	ND		0.00198	0.000734	mg/Kg	☒	10/30/12 15:55	11/02/12 12:32	1
Xylenes, Total	ND		0.00496	0.000665	mg/Kg	☒	10/30/12 15:55	11/02/12 12:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 130	10/30/12 15:55	11/02/12 12:32	1
4-Bromofluorobenzene (Surr)	103		70 - 130	10/30/12 15:55	11/02/12 12:32	1
Dibromofluoromethane (Surr)	110		70 - 130	10/30/12 15:55	11/02/12 12:32	1
Toluene-d8 (Surr)	95		70 - 130	10/30/12 15:55	11/02/12 12:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0666	0.00993	mg/Kg	☒	11/08/12 11:46	11/10/12 18:54	1
Acenaphthylene	ND		0.0666	0.00894	mg/Kg	☒	11/08/12 11:46	11/10/12 18:54	1
Anthracene	ND		0.0666	0.00894	mg/Kg	☒	11/08/12 11:46	11/10/12 18:54	1
Benzo[a]anthracene	0.0358	J	0.0666	0.0149	mg/Kg	☒	11/08/12 11:46	11/10/12 18:54	1
Benzo[a]pyrene	ND		0.0666	0.0119	mg/Kg	☒	11/08/12 11:46	11/10/12 18:54	1
Benzo[b]fluoranthene	0.0390	J	0.0666	0.0119	mg/Kg	☒	11/08/12 11:46	11/10/12 18:54	1
Benzo[g,h,i]perylene	ND		0.0666	0.00894	mg/Kg	☒	11/08/12 11:46	11/10/12 18:54	1
Benzo[k]fluoranthene	0.0358	J	0.0666	0.0139	mg/Kg	☒	11/08/12 11:46	11/10/12 18:54	1
1-Methylnaphthalene	ND		0.0666	0.0139	mg/Kg	☒	11/08/12 11:46	11/10/12 18:54	1
Pyrene	0.0422	J	0.0666	0.0119	mg/Kg	☒	11/08/12 11:46	11/10/12 18:54	1
Phenanthrene	ND		0.0666	0.00894	mg/Kg	☒	11/08/12 11:46	11/10/12 18:54	1
Chrysene	0.0375	J	0.0666	0.00894	mg/Kg	☒	11/08/12 11:46	11/10/12 18:54	1
Dibenz(a,h)anthracene	ND		0.0666	0.00695	mg/Kg	☒	11/08/12 11:46	11/10/12 18:54	1
Fluoranthene	0.0415	J	0.0666	0.00894	mg/Kg	☒	11/08/12 11:46	11/10/12 18:54	1
Fluorene	ND		0.0666	0.0119	mg/Kg	☒	11/08/12 11:46	11/10/12 18:54	1
Indeno[1,2,3-cd]pyrene	ND		0.0666	0.00993	mg/Kg	☒	11/08/12 11:46	11/10/12 18:54	1
Naphthalene	ND		0.0666	0.00894	mg/Kg	☒	11/08/12 11:46	11/10/12 18:54	1
2-Methylnaphthalene	ND		0.0666	0.0159	mg/Kg	☒	11/08/12 11:46	11/10/12 18:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	62		29 - 120	11/08/12 11:46	11/10/12 18:54	1
Terphenyl-d14 (Surr)	71		13 - 120	11/08/12 11:46	11/10/12 18:54	1
Nitrobenzene-d5 (Surr)	68		27 - 120	11/08/12 11:46	11/10/12 18:54	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87		0.10	0.10	%			10/31/12 13:47	1

QC Sample Results

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

TestAmerica Job ID: 490-10215-1

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

Lab Sample ID: MB 490-32902/6

Matrix: Solid

Analysis Batch: 32902

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000670	mg/Kg			11/02/12 11:31	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			11/02/12 11:31	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			11/02/12 11:31	1
Toluene	ND		0.00200	0.000740	mg/Kg			11/02/12 11:31	1
Xylenes, Total	ND		0.00500	0.000670	mg/Kg			11/02/12 11:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 130		11/02/12 11:31	1
4-Bromofluorobenzene (Surr)	99		70 - 130		11/02/12 11:31	1
Dibromofluoromethane (Surr)	107		70 - 130		11/02/12 11:31	1
Toluene-d8 (Surr)	97		70 - 130		11/02/12 11:31	1

Lab Sample ID: LCS 490-32902/3

Matrix: Solid

Analysis Batch: 32902

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.04557		mg/Kg			
Ethylbenzene	0.0500	0.04493		mg/Kg			
Naphthalene	0.0500	0.03698		mg/Kg			
Toluene	0.0500	0.04299		mg/Kg			
Xylenes, Total	0.150	0.1393		mg/Kg			

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)			
4-Bromofluorobenzene (Surr)			
Dibromofluoromethane (Surr)			
Toluene-d8 (Surr)			

Lab Sample ID: 490-10429-A-10-D MS

Matrix: Solid

Analysis Batch: 32902

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 32932

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		0.0426	0.03969		mg/Kg		93	31 - 143
Ethylbenzene	ND		0.0426	0.03496		mg/Kg		82	23 - 161
Naphthalene	ND		0.0426	0.005284		mg/Kg		12	10 - 176
Toluene	ND		0.0426	0.03622		mg/Kg		85	30 - 155
Xylenes, Total	ND		0.128	0.1041		mg/Kg		81	25 - 162

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	111		70 - 130
Toluene-d8 (Surr)	99		70 - 130

QC Sample Results

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

TestAmerica Job ID: 490-10215-1

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

Lab Sample ID: 490-10429-A-10-E MSD

Matrix: Solid

Analysis Batch: 32902

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 32932

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	ND		0.0478	0.04221		mg/Kg		88	31 - 143	6	50
Ethylbenzene	ND		0.0478	0.03892		mg/Kg		81	23 - 161	11	50
Naphthalene	ND		0.0478	0.007524		mg/Kg		16	10 - 176	35	50
Toluene	ND		0.0478	0.03853		mg/Kg		81	30 - 155	6	50
Xylenes, Total	ND		0.143	0.1167		mg/Kg		81	25 - 162	11	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	110		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: 490-10480-A-12-D MS

Matrix: Solid

Analysis Batch: 33503

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 33200

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.000587	J	0.0473	0.04721		mg/Kg		100	31 - 143
Ethylbenzene	ND		0.0473	0.04706		mg/Kg		100	23 - 161
Naphthalene	0.00157	J	0.0473	0.03445		mg/Kg		61	10 - 176
Toluene	0.000663	J	0.0473	0.04539		mg/Kg		96	30 - 155
Xylenes, Total	ND		0.142	0.1400		mg/Kg		99	25 - 162

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Lab Sample ID: 490-10480-A-12-E MSD

Matrix: Solid

Analysis Batch: 33503

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 33200

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.000587	J	0.0430	0.04100		mg/Kg		95	31 - 143	14	50
Ethylbenzene	ND		0.0430	0.03954		mg/Kg		92	23 - 161	17	50
Naphthalene	0.00157	J	0.0430	0.02604		mg/Kg		47	10 - 176	28	50
Toluene	0.000663	J	0.0430	0.03848		mg/Kg		90	30 - 155	16	50
Xylenes, Total	ND		0.129	0.1170		mg/Kg		91	25 - 162	18	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	103		70 - 130
Toluene-d8 (Surr)	95		70 - 130

QC Sample Results

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

TestAmerica Job ID: 490-10215-1

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

Lab Sample ID: MB 490-33503/7

Matrix: Solid

Analysis Batch: 33503

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.100	0.0340	mg/Kg			11/05/12 12:24	1
Ethylbenzene	ND		0.100	0.0340	mg/Kg			11/05/12 12:24	1
Naphthalene	ND		0.250	0.0850	mg/Kg			11/05/12 12:24	1
Toluene	ND		0.100	0.0370	mg/Kg			11/05/12 12:24	1
Xylenes, Total	ND		0.250	0.0340	mg/Kg			11/05/12 12:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 130		11/05/12 12:24	1
4-Bromofluorobenzene (Surr)	101		70 - 130		11/05/12 12:24	1
Dibromofluoromethane (Surr)	109		70 - 130		11/05/12 12:24	1
Toluene-d8 (Surr)	95		70 - 130		11/05/12 12:24	1

Lab Sample ID: LCS 490-33503/3

Matrix: Solid

Analysis Batch: 33503

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.04580		mg/Kg		92	75 - 127
Ethylbenzene	0.0500	0.04255		mg/Kg		85	80 - 134
Naphthalene	0.0500	0.03957		mg/Kg		79	69 - 150
Toluene	0.0500	0.04039		mg/Kg		81	80 - 132
Xylenes, Total	0.150	0.1323		mg/Kg		88	80 - 137

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
4-Bromofluorobenzene (Surr)	92		70 - 130
Dibromofluoromethane (Surr)	110		70 - 130
Toluene-d8 (Surr)	91		70 - 130

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

Lab Sample ID: MB 490-33536/1-A

Matrix: Solid

Analysis Batch: 33545

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33536

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0100	mg/Kg		11/05/12 10:11	11/05/12 18:40	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		11/05/12 10:11	11/05/12 18:40	1
Anthracene	ND		0.0670	0.00900	mg/Kg		11/05/12 10:11	11/05/12 18:40	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		11/05/12 10:11	11/05/12 18:40	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		11/05/12 10:11	11/05/12 18:40	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		11/05/12 10:11	11/05/12 18:40	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		11/05/12 10:11	11/05/12 18:40	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		11/05/12 10:11	11/05/12 18:40	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		11/05/12 10:11	11/05/12 18:40	1
Pyrene	ND		0.0670	0.0120	mg/Kg		11/05/12 10:11	11/05/12 18:40	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		11/05/12 10:11	11/05/12 18:40	1
Chrysene	ND		0.0670	0.00900	mg/Kg		11/05/12 10:11	11/05/12 18:40	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		11/05/12 10:11	11/05/12 18:40	1

QC Sample Results

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

TestAmerica Job ID: 490-10215-1

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

Lab Sample ID: MB 490-33536/1-A

Matrix: Solid

Analysis Batch: 33545

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33536

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.0670	0.00900	mg/Kg		11/05/12 10:11	11/05/12 18:40	1
Fluorene	ND		0.0670	0.0120	mg/Kg		11/05/12 10:11	11/05/12 18:40	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		11/05/12 10:11	11/05/12 18:40	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		11/05/12 10:11	11/05/12 18:40	1
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		11/05/12 10:11	11/05/12 18:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	65		29 - 120	11/05/12 10:11	11/05/12 18:40	1
Terphenyl-d14 (Surr)	84		13 - 120	11/05/12 10:11	11/05/12 18:40	1
Nitrobenzene-d5 (Surr)	63		27 - 120	11/05/12 10:11	11/05/12 18:40	1

Lab Sample ID: LCS 490-33536/2-A

Matrix: Solid

Analysis Batch: 33545

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33536

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	1.67	1.547		mg/Kg		93	38 - 120
Anthracene	1.67	1.449		mg/Kg		87	46 - 124
Benzo[a]anthracene	1.67	1.552		mg/Kg		93	45 - 120
Benzo[a]pyrene	1.67	1.766		mg/Kg		106	45 - 120
Benzo[b]fluoranthene	1.67	1.735		mg/Kg		104	42 - 120
Benzo[g,h,i]perylene	1.67	1.411		mg/Kg		85	38 - 120
Benzo[k]fluoranthene	1.67	1.587		mg/Kg		95	42 - 120
1-Methylnaphthalene	1.67	1.254		mg/Kg		75	32 - 120
Pyrene	1.67	1.423		mg/Kg		85	43 - 120
Phenanthrene	1.67	1.418		mg/Kg		85	45 - 120
Chrysene	1.67	1.334		mg/Kg		80	43 - 120
Dibenz(a,h)anthracene	1.67	1.447		mg/Kg		87	32 - 128
Fluoranthene	1.67	1.549		mg/Kg		93	46 - 120
Fluorene	1.67	1.519		mg/Kg		91	42 - 120
Indeno[1,2,3-cd]pyrene	1.67	1.441		mg/Kg		86	41 - 121
Naphthalene	1.67	1.368		mg/Kg		82	32 - 120
2-Methylnaphthalene	1.67	1.269		mg/Kg		76	28 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	68		29 - 120
Terphenyl-d14 (Surr)	79		13 - 120
Nitrobenzene-d5 (Surr)	58		27 - 120

Lab Sample ID: 490-10245-C-1-B MS

Matrix: Solid

Analysis Batch: 33545

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 33536

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	ND		1.41	0.9531		mg/Kg		67	25 - 120
Anthracene	ND		1.41	0.8931		mg/Kg		63	28 - 125
Benzo[a]anthracene	ND		1.41	0.9148		mg/Kg		65	23 - 120
Benzo[a]pyrene	ND		1.41	0.9961		mg/Kg		70	15 - 128
Benzo[b]fluoranthene	ND		1.41	0.9996		mg/Kg		71	12 - 133

QC Sample Results

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

TestAmerica Job ID: 490-10215-1

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

Lab Sample ID: 490-10245-C-1-B MS

Matrix: Solid

Analysis Batch: 33545

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 33536

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[g,h,i]perylene	ND		1.41	0.8520		mg/Kg		60	22 - 120
Benzo[k]fluoranthene	ND		1.41	0.9056		mg/Kg		64	28 - 120
1-Methylnaphthalene	ND		1.41	0.8046		mg/Kg		57	10 - 120
Pyrene	ND		1.41	0.8661		mg/Kg		61	20 - 123
Phenanthrene	ND		1.41	0.8637		mg/Kg		61	21 - 122
Chrysene	ND		1.41	0.8944		mg/Kg		63	20 - 120
Dibenz(a,h)anthracene	ND		1.41	0.9118		mg/Kg		64	12 - 128
Fluoranthene	ND		1.41	0.9505		mg/Kg		67	10 - 143
Fluorene	ND		1.41	0.9103		mg/Kg		64	20 - 120
Indeno[1,2,3-cd]pyrene	ND		1.41	0.8784		mg/Kg		62	22 - 121
Naphthalene	ND		1.41	0.8590		mg/Kg		61	10 - 120
2-Methylnaphthalene	ND		1.41	0.7989		mg/Kg		56	13 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl (Surr)	48		29 - 120
Terphenyl-d14 (Surr)	59		13 - 120
Nitrobenzene-d5 (Surr)	47		27 - 120

Lab Sample ID: 490-10245-C-1-C MSD

Matrix: Solid

Analysis Batch: 33545

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 33536

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Acenaphthylene	ND		1.40	1.064		mg/Kg		76	25 - 120	11	50
Anthracene	ND		1.40	1.026		mg/Kg		73	28 - 125	14	49
Benzo[a]anthracene	ND		1.40	1.043		mg/Kg		74	23 - 120	13	50
Benzo[a]pyrene	ND		1.40	1.155		mg/Kg		82	15 - 128	15	50
Benzo[b]fluoranthene	ND		1.40	1.143		mg/Kg		82	12 - 133	13	50
Benzo[g,h,i]perylene	ND		1.40	0.9598		mg/Kg		68	22 - 120	12	50
Benzo[k]fluoranthene	ND		1.40	1.020		mg/Kg		73	28 - 120	12	45
1-Methylnaphthalene	ND		1.40	0.8747		mg/Kg		62	10 - 120	8	50
Pyrene	ND		1.40	0.9800		mg/Kg		70	20 - 123	12	50
Phenanthrene	ND		1.40	1.008		mg/Kg		72	21 - 122	15	50
Chrysene	ND		1.40	0.9685		mg/Kg		69	20 - 120	8	49
Dibenz(a,h)anthracene	ND		1.40	1.011		mg/Kg		72	12 - 128	10	50
Fluoranthene	ND		1.40	1.087		mg/Kg		78	10 - 143	13	50
Fluorene	ND		1.40	1.014		mg/Kg		72	20 - 120	11	50
Indeno[1,2,3-cd]pyrene	ND		1.40	1.024		mg/Kg		73	22 - 121	15	50
Naphthalene	ND		1.40	0.9689		mg/Kg		69	10 - 120	12	50
2-Methylnaphthalene	ND		1.40	0.8810		mg/Kg		63	13 - 120	10	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	52		29 - 120
Terphenyl-d14 (Surr)	62		13 - 120
Nitrobenzene-d5 (Surr)	50		27 - 120

QC Sample Results

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

TestAmerica Job ID: 490-10215-1

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

Lab Sample ID: MB 490-34510/1-A

Matrix: Solid

Analysis Batch: 35149

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34510

Analyte	Result	MB MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0100	mg/Kg		11/08/12 11:46	11/10/12 17:43	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		11/08/12 11:46	11/10/12 17:43	1
Anthracene	ND		0.0670	0.00900	mg/Kg		11/08/12 11:46	11/10/12 17:43	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		11/08/12 11:46	11/10/12 17:43	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		11/08/12 11:46	11/10/12 17:43	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		11/08/12 11:46	11/10/12 17:43	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		11/08/12 11:46	11/10/12 17:43	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		11/08/12 11:46	11/10/12 17:43	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		11/08/12 11:46	11/10/12 17:43	1
Pyrene	ND		0.0670	0.0120	mg/Kg		11/08/12 11:46	11/10/12 17:43	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		11/08/12 11:46	11/10/12 17:43	1
Chrysene	ND		0.0670	0.00900	mg/Kg		11/08/12 11:46	11/10/12 17:43	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		11/08/12 11:46	11/10/12 17:43	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg		11/08/12 11:46	11/10/12 17:43	1
Fluorene	ND		0.0670	0.0120	mg/Kg		11/08/12 11:46	11/10/12 17:43	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		11/08/12 11:46	11/10/12 17:43	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		11/08/12 11:46	11/10/12 17:43	1
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		11/08/12 11:46	11/10/12 17:43	1

Surrogate	%Recovery	MB MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	82		29 - 120	11/08/12 11:46	11/10/12 17:43	1
Terphenyl-d14 (Surr)	90		13 - 120	11/08/12 11:46	11/10/12 17:43	1
Nitrobenzene-d5 (Surr)	82		27 - 120	11/08/12 11:46	11/10/12 17:43	1

Lab Sample ID: LCS 490-34510/2-A

Matrix: Solid

Analysis Batch: 35149

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34510

Analyte	Spike Added	LCS LCS Result Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	1.67	1.346	mg/Kg		81	38 - 120
Anthracene	1.67	1.593	mg/Kg		96	46 - 124
Benzo[a]anthracene	1.67	1.608	mg/Kg		96	45 - 120
Benzo[a]pyrene	1.67	1.589	mg/Kg		95	45 - 120
Benzo[b]fluoranthene	1.67	1.483	mg/Kg		89	42 - 120
Benzo[g,h,i]perylene	1.67	1.371	mg/Kg		82	38 - 120
Benzo[k]fluoranthene	1.67	1.516	mg/Kg		91	42 - 120
1-Methylnaphthalene	1.67	1.317	mg/Kg		79	32 - 120
Pyrene	1.67	1.634	mg/Kg		98	43 - 120
Phenanthrene	1.67	1.523	mg/Kg		91	45 - 120
Chrysene	1.67	1.563	mg/Kg		94	43 - 120
Dibenz(a,h)anthracene	1.67	1.433	mg/Kg		86	32 - 128
Fluoranthene	1.67	1.722	mg/Kg		103	46 - 120
Fluorene	1.67	1.430	mg/Kg		86	42 - 120
Indeno[1,2,3-cd]pyrene	1.67	1.438	mg/Kg		86	41 - 121
Naphthalene	1.67	1.505	mg/Kg		90	32 - 120
2-Methylnaphthalene	1.67	1.410	mg/Kg		85	28 - 120

Surrogate	%Recovery	LCS LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	67		29 - 120

QC Sample Results

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

TestAmerica Job ID: 490-10215-1

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

Lab Sample ID: LCS 490-34510/2-A

Matrix: Solid

Analysis Batch: 35149

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34510

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Terphenyl-d14 (Surr)	92		13 - 120
Nitrobenzene-d5 (Surr)	76		27 - 120

Lab Sample ID: 490-10215-6 MS

Matrix: Solid

Analysis Batch: 35149

Client Sample ID: 1103 Iris

Prep Type: Total/NA

Prep Batch: 34510

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	ND		1.66	1.225		mg/Kg	☒	74	25 - 120
Anthracene	ND		1.66	1.148		mg/Kg	☒	69	28 - 125
Benzo[a]anthracene	0.0358	J	1.66	1.479		mg/Kg	☒	87	23 - 120
Benzo[a]pyrene	ND		1.66	1.350		mg/Kg	☒	81	15 - 128
Benzo[b]fluoranthene	0.0390	J	1.66	1.357		mg/Kg	☒	80	12 - 133
Benzo[g,h,i]perylene	ND		1.66	1.294		mg/Kg	☒	78	22 - 120
Benzo[k]fluoranthene	0.0358	J	1.66	1.398		mg/Kg	☒	82	28 - 120
1-Methylnaphthalene	ND		1.66	1.028		mg/Kg	☒	62	10 - 120
Pyrene	0.0422	J	1.66	1.497		mg/Kg	☒	88	20 - 123
Phenanthrene	ND		1.66	1.344		mg/Kg	☒	81	21 - 122
Chrysene	0.0375	J	1.66	1.448		mg/Kg	☒	85	20 - 120
Dibenz(a,h)anthracene	ND		1.66	1.292		mg/Kg	☒	78	12 - 128
Fluoranthene	0.0415	J	1.66	1.457		mg/Kg	☒	85	10 - 143
Fluorene	ND		1.66	1.147		mg/Kg	☒	69	20 - 120
Indeno[1,2,3-cd]pyrene	ND		1.66	1.343		mg/Kg	☒	81	22 - 121
Naphthalene	ND		1.66	1.241		mg/Kg	☒	75	10 - 120
2-Methylnaphthalene	ND		1.66	1.214		mg/Kg	☒	73	13 - 120

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	61		29 - 120
Terphenyl-d14 (Surr)	82		13 - 120
Nitrobenzene-d5 (Surr)	70		27 - 120

Lab Sample ID: 490-10215-6 MSD

Matrix: Solid

Analysis Batch: 35149

Client Sample ID: 1103 Iris

Prep Type: Total/NA

Prep Batch: 34510

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Acenaphthylene	ND		1.65	1.300		mg/Kg	☒	79	25 - 120	6	50
Anthracene	ND		1.65	1.188		mg/Kg	☒	72	28 - 125	3	49
Benzo[a]anthracene	0.0358	J	1.65	1.400		mg/Kg	☒	83	23 - 120	5	50
Benzo[a]pyrene	ND		1.65	1.362		mg/Kg	☒	82	15 - 128	1	50
Benzo[b]fluoranthene	0.0390	J	1.65	1.379		mg/Kg	☒	81	12 - 133	2	50
Benzo[g,h,i]perylene	ND		1.65	1.308		mg/Kg	☒	79	22 - 120	1	50
Benzo[k]fluoranthene	0.0358	J	1.65	1.332		mg/Kg	☒	78	28 - 120	5	45
1-Methylnaphthalene	ND		1.65	1.208		mg/Kg	☒	73	10 - 120	16	50
Pyrene	0.0422	J	1.65	1.332		mg/Kg	☒	78	20 - 123	12	50
Phenanthrene	ND		1.65	1.302		mg/Kg	☒	79	21 - 122	3	50
Chrysene	0.0375	J	1.65	1.411		mg/Kg	☒	83	20 - 120	3	49
Dibenz(a,h)anthracene	ND		1.65	1.359		mg/Kg	☒	82	12 - 128	5	50
Fluoranthene	0.0415	J	1.65	1.254		mg/Kg	☒	73	10 - 143	15	50

QC Sample Results

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

TestAmerica Job ID: 490-10215-1

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

Lab Sample ID: 490-10215-6 MSD

Matrix: Solid

Analysis Batch: 35149

Client Sample ID: 1103 Iris

Prep Type: Total/NA

Prep Batch: 34510

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluorene	ND		1.65	1.302		mg/Kg	☒	79	20 - 120	13	50
Indeno[1,2,3-cd]pyrene	ND		1.65	1.345		mg/Kg	☒	81	22 - 121	0	50
Naphthalene	ND		1.65	1.305		mg/Kg	☒	79	10 - 120	5	50
2-Methylnaphthalene	ND		1.65	1.223		mg/Kg	☒	74	13 - 120	1	50

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
2-Fluorobiphenyl (Surr)	62		29 - 120
Terphenyl-d14 (Surr)	77		13 - 120
Nitrobenzene-d5 (Surr)	65		27 - 120

Method: Moisture - Percent Moisture

Lab Sample ID: 490-10215-1 DU

Matrix: Solid

Analysis Batch: 32397

Client Sample ID: 1179 Bobwhite

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	88		88		%		0.01	20

QC Association Summary

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

TestAmerica Job ID: 490-10215-1

GC/MS VOA

Prep Batch: 32124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-10215-4	1133 Iris	Total/NA	Solid	5035	
490-10215-5	1102 Iris-1	Total/NA	Solid	5035	

Prep Batch: 32125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-10215-1	1179 Bobwhite	Total/NA	Solid	5035	
490-10215-2	1374 Dove	Total/NA	Solid	5035	
490-10215-3	1221 Cardinal	Total/NA	Solid	5035	
490-10215-4	1133 Iris	Total/NA	Solid	5035	
490-10215-5	1102 Iris-1	Total/NA	Solid	5035	
490-10215-6	1103 Iris	Total/NA	Solid	5035	

Analysis Batch: 32902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-10215-1	1179 Bobwhite	Total/NA	Solid	8260B	32125
490-10215-2	1374 Dove	Total/NA	Solid	8260B	32125
490-10215-4	1133 Iris	Total/NA	Solid	8260B	32125
490-10215-5	1102 Iris-1	Total/NA	Solid	8260B	32125
490-10215-6	1103 Iris	Total/NA	Solid	8260B	32125
490-10429-A-10-D MS	Matrix Spike	Total/NA	Solid	8260B	32932
490-10429-A-10-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	32932
LCS 490-32902/3	Lab Control Sample	Total/NA	Solid	8260B	
MB 490-32902/6	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 32932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-10429-A-10-D MS	Matrix Spike	Total/NA	Solid	5035	
490-10429-A-10-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 33200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-10480-A-12-D MS	Matrix Spike	Total/NA	Solid	5035	
490-10480-A-12-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 33503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-10215-3	1221 Cardinal	Total/NA	Solid	8260B	32125
490-10215-4	1133 Iris	Total/NA	Solid	8260B	32124
490-10215-5	1102 Iris-1	Total/NA	Solid	8260B	32124
490-10480-A-12-D MS	Matrix Spike	Total/NA	Solid	8260B	33200
490-10480-A-12-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	33200
LCS 490-33503/3	Lab Control Sample	Total/NA	Solid	8260B	
MB 490-33503/7	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 33536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-10215-1	1179 Bobwhite	Total/NA	Solid	3550C	
490-10215-2	1374 Dove	Total/NA	Solid	3550C	
490-10215-3	1221 Cardinal	Total/NA	Solid	3550C	
490-10215-4	1133 Iris	Total/NA	Solid	3550C	

QC Association Summary

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

TestAmerica Job ID: 490-10215-1

GC/MS Semi VOA (Continued)

Prep Batch: 33536 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-10215-5	1102 Iris-1	Total/NA	Solid	3550C	
490-10245-C-1-B MS	Matrix Spike	Total/NA	Solid	3550C	
490-10245-C-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	
LCS 490-33536/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-33536/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 33545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-10215-1	1179 Bobwhite	Total/NA	Solid	8270D	33536
490-10215-2	1374 Dove	Total/NA	Solid	8270D	33536
490-10215-3	1221 Cardinal	Total/NA	Solid	8270D	33536
490-10215-4	1133 Iris	Total/NA	Solid	8270D	33536
490-10215-5	1102 Iris-1	Total/NA	Solid	8270D	33536
490-10245-C-1-B MS	Matrix Spike	Total/NA	Solid	8270D	33536
490-10245-C-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8270D	33536
LCS 490-33536/2-A	Lab Control Sample	Total/NA	Solid	8270D	33536
MB 490-33536/1-A	Method Blank	Total/NA	Solid	8270D	33536

Analysis Batch: 33778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-10215-4	1133 Iris	Total/NA	Solid	8270D	33536
490-10215-5	1102 Iris-1	Total/NA	Solid	8270D	33536

Analysis Batch: 34127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-10215-4	1133 Iris	Total/NA	Solid	8270D	33536
490-10215-5	1102 Iris-1	Total/NA	Solid	8270D	33536

Prep Batch: 34510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-10215-6	1103 Iris	Total/NA	Solid	3550C	
490-10215-6 MS	1103 Iris	Total/NA	Solid	3550C	
490-10215-6 MSD	1103 Iris	Total/NA	Solid	3550C	
LCS 490-34510/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-34510/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 35149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-10215-6	1103 Iris	Total/NA	Solid	8270D	34510
490-10215-6 MS	1103 Iris	Total/NA	Solid	8270D	34510
490-10215-6 MSD	1103 Iris	Total/NA	Solid	8270D	34510
LCS 490-34510/2-A	Lab Control Sample	Total/NA	Solid	8270D	34510
MB 490-34510/1-A	Method Blank	Total/NA	Solid	8270D	34510

General Chemistry

Analysis Batch: 32397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-10215-1	1179 Bobwhite	Total/NA	Solid	Moisture	
490-10215-1 DU	1179 Bobwhite	Total/NA	Solid	Moisture	
490-10215-2	1374 Dove	Total/NA	Solid	Moisture	
490-10215-3	1221 Cardinal	Total/NA	Solid	Moisture	



QC Association Summary

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

TestAmerica Job ID: 490-10215-1

General Chemistry (Continued)

Analysis Batch: 32397 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-10215-4	1133 Iris	Total/NA	Solid	Moisture	
490-10215-5	1102 Iris-1	Total/NA	Solid	Moisture	
490-10215-6	1103 Iris	Total/NA	Solid	Moisture	

Lab Chronicle

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

TestAmerica Job ID: 490-10215-1

Client Sample ID: 1179 Bobwhite

Date Collected: 10/22/12 16:30

Date Received: 10/30/12 08:30

Lab Sample ID: 490-10215-1

Matrix: Solid

Percent Solids: 87.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			32125	10/30/12 15:55	ML	TAL NSH
Total/NA	Analysis	8260B		1	32902	11/02/12 15:07	KK	TAL NSH
Total/NA	Prep	3550C			33536	11/05/12 10:11	AK	TAL NSH
Total/NA	Analysis	8270D		1	33545	11/05/12 20:25	WS	TAL NSH
Total/NA	Analysis	Moisture		1	32397	10/31/12 13:47	RS	TAL NSH

Client Sample ID: 1374 Dove

Date Collected: 10/22/12 16:30

Date Received: 10/30/12 08:30

Lab Sample ID: 490-10215-2

Matrix: Solid

Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			32125	10/30/12 15:55	ML	TAL NSH
Total/NA	Analysis	8260B		1	32902	11/02/12 14:37	KK	TAL NSH
Total/NA	Prep	3550C			33536	11/05/12 10:11	AK	TAL NSH
Total/NA	Analysis	8270D		1	33545	11/05/12 20:46	WS	TAL NSH
Total/NA	Analysis	Moisture		1	32397	10/31/12 13:47	RS	TAL NSH

Client Sample ID: 1221 Cardinal

Date Collected: 10/23/12 14:45

Date Received: 10/30/12 08:30

Lab Sample ID: 490-10215-3

Matrix: Solid

Percent Solids: 87.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			32125	10/30/12 15:55	ML	TAL NSH
Total/NA	Analysis	8260B		1	33503	11/05/12 13:31	KK	TAL NSH
Total/NA	Prep	3550C			33536	11/05/12 10:11	AK	TAL NSH
Total/NA	Analysis	8270D		1	33545	11/05/12 21:07	WS	TAL NSH
Total/NA	Analysis	Moisture		1	32397	10/31/12 13:47	RS	TAL NSH

Client Sample ID: 1133 Iris

Date Collected: 10/24/12 14:45

Date Received: 10/30/12 08:30

Lab Sample ID: 490-10215-4

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			32125	10/30/12 15:55	ML	TAL NSH
Total/NA	Analysis	8260B		1	32902	11/02/12 13:35	KK	TAL NSH
Total/NA	Prep	5035			32124	10/30/12 15:54	ML	TAL NSH
Total/NA	Analysis	8260B		1	33503	11/05/12 15:34	KK	TAL NSH
Total/NA	Prep	3550C			33536	11/05/12 10:11	AK	TAL NSH
Total/NA	Analysis	8270D		1	33545	11/05/12 21:28	WS	TAL NSH
Total/NA	Analysis	8270D		5	33778	11/06/12 12:58	WS	TAL NSH
Total/NA	Analysis	8270D		20	34127	11/07/12 13:27	SCS	TAL NSH
Total/NA	Analysis	Moisture		1	32397	10/31/12 13:47	RS	TAL NSH

Lab Chronicle

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

TestAmerica Job ID: 490-10215-1

Client Sample ID: 1102 Iris-1

Date Collected: 10/25/12 15:15

Date Received: 10/30/12 08:30

Lab Sample ID: 490-10215-5

Matrix: Solid

Percent Solids: 77.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			32125	10/30/12 15:55	ML	TAL NSH
Total/NA	Analysis	8260B		1	32902	11/02/12 13:04	KK	TAL NSH
Total/NA	Prep	5035			32124	10/30/12 15:54	ML	TAL NSH
Total/NA	Analysis	8260B		1	33503	11/05/12 12:54	KK	TAL NSH
Total/NA	Prep	3550C			33536	11/05/12 10:11	AK	TAL NSH
Total/NA	Analysis	8270D		1	33545	11/05/12 21:49	WS	TAL NSH
Total/NA	Analysis	8270D		5	33778	11/06/12 13:19	WS	TAL NSH
Total/NA	Analysis	8270D		20	34127	11/07/12 13:48	SCS	TAL NSH
Total/NA	Analysis	Moisture		1	32397	10/31/12 13:47	RS	TAL NSH

Client Sample ID: 1103 Iris

Date Collected: 10/25/12 15:00

Date Received: 10/30/12 08:30

Lab Sample ID: 490-10215-6

Matrix: Solid

Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			32125	10/30/12 15:55	ML	TAL NSH
Total/NA	Analysis	8260B		1	32902	11/02/12 12:32	KK	TAL NSH
Total/NA	Prep	3550C			34510	11/08/12 11:46	AK	TAL NSH
Total/NA	Analysis	8270D		1	35149	11/10/12 18:54	JS	TAL NSH
Total/NA	Analysis	Moisture		1	32397	10/31/12 13:47	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: 490-10215-1

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: 490-10215-1

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	NELAC	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	NELAC	4	E87358	06-30-13
Illinois	NELAC	5	200010	12-09-12
Iowa	State Program	7	131	05-01-14
Kansas	NELAC	7	E-10229	10-31-13
Kentucky	State Program	4	90038	12-31-12
Kentucky (UST)	State Program	4	19	09-15-13
Louisiana	NELAC	6	LA120025	12-31-12
Louisiana	NELAC	6	30613	06-30-13
Maryland	State Program	3	316	03-31-13
Massachusetts	State Program	1	M-TN032	06-30-13
Minnesota	NELAC	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	NELAC	1	2963	10-09-13
New Jersey	NELAC	2	TN965	06-30-13
New York	NELAC	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	NELAC	10	TN200001	04-30-13
Pennsylvania	NELAC	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	NELAC	6	T104704077-09-TX	08-31-13
USDA	Federal		S-48469	11-02-13
Utah	NELAC	8	TAN	06-30-13
Virginia	NELAC	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



COOLER RECEIPT



Cooler Received/Opened On 10/30/2012 @ 0830

1. Tracking # 2514 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 97310166

2. Temperature of rep. sample or temp blank when opened: 6.7 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: one front & Back

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) DA

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

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) A

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) A

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) A

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

21. Were there Non-Conformance issues at login? YES...(NO) Was a PIPE generated? YES...(NO)...

TestAmerica

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Toll Free: 800-765-0880
Fax: 615-726-3404

Client Name/Account #: EEG - SBG # 2449

Address: 10179 Highway 78

City/State/Zip: Ladson, SC 29456

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

Telephone Number: 843 412 2097

Sample Name: (Print) Realt Shans

Sampler Signature: [Signature]

Fax No.: 843-879-0401

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?
Enforcement Action?

Yes ☐ No ☐
Yes ☐ No ☐

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Ice	HNO ₃ (Red Label)	H ₂ O ₂ (Blue Label)	NaOH (Orange Label)	H ₂ SO ₄ Plastic (Yellow Label)	H ₂ SO ₄ Glass (Yellow Label)	None (Black Label)	Other (Specify)	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	BTEX + Napth - 82608	PAH - 8270D	Analyze For:	RUSH TAT (Pre-Schedule)
1179 Bobwhitz	10/22/12	1630	4	X																				
1374 Dove	10/23/12	1430	4	X																				
1221 Cardinal	10/23/12	1445	4	X																				
1133 Iris	10/24/12	1445	4	X																				
1102 Iris-1	10/25/12	1515	4	X																				
1103 Iris	10/25/12	1500	4	X																				

Special Instructions:

Method of Shipment:

FEDEX

Laboratory Comments:

Temperature Upon Receipt
VOCs Free of Headspace?

Y

Relinquished by: <u>[Signature]</u>	Date: <u>10/29/12</u>	Time: <u>0900</u>	Received by: <u>FEDEX</u>	Date: <u>10-30-12</u>	Time: <u>08:30</u>
Relinquished by: <u>[Signature]</u>	Date: <u>10/29/12</u>	Time: <u>0900</u>	Received by: <u>FEDEX</u>	Date: <u>10-30-12</u>	Time: <u>08:30</u>

Login Sample Receipt Checklist

Client: Environmental Enterprise Group

Job Number: 490-10215-1

SDG Number:

Login Number: 10215

List Number: 1

Creator: Ford, Easton

List Source: TestAmerica Nashville

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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

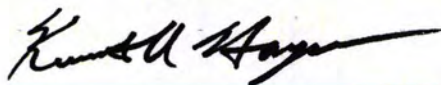
TestAmerica Job ID: 490-10764-1

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:
11/17/2012 6:52:51 PM

Ken Hayes
Project Manager I
ken.hayes@testamericainc.com

LINKS

Review your project
results through
TotalAccess

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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: 490-10764-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-10764-1	1102 Iris-2	Solid	10/29/12 14:15	11/06/12 08:10
490-10764-2	1345 Cardinal	Solid	10/29/12 15:15	11/06/12 08:10
490-10764-3	1133 Iris-2	Solid	10/30/12 15:15	11/06/12 08:10
490-10764-4	841 Azalea	Solid	10/30/12 14:30	11/06/12 08:10
490-10764-5	1004 Bobwhite	Solid	10/31/12 15:30	11/06/12 08:10
490-10764-6	471 Dogwood-2	Solid	10/31/12 14:35	11/06/12 08:10
490-10764-7	471 Dogwood-3	Solid	11/01/12 15:35	11/06/12 08:10

Case Narrative

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

TestAmerica Job ID: 490-10764-1

Job ID: 490-10764-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-10764-1

Comments

No additional comments.

Receipt

The samples were received on 11/6/2012 8:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.4° C.

GC/MS VOA

Method(s) 8260B: The method blank for batch 35106 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 35106.

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside control limits: 471 Dogwood-3 (490-10764-7). 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 35535.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 35544.

No other analytical or quality issues were noted.

GC/MS Semi VOA

No 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: 490-10764-1

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.

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
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
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
RER	Relative error ratio
DER	Duplicate error ratio (normalized absolute difference)
DLC	Decision level concentration
RL	Reporting Limit or Requested Limit (Radiochemistry only)

Client Sample Results

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

TestAmerica Job ID: 490-10764-1

Client Sample ID: 1102 Iris-2

Lab Sample ID: 490-10764-1

Date Collected: 10/29/12 14:15

Matrix: Solid

Date Received: 11/06/12 08:10

Percent Solids: 90.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00216	0.000724	mg/Kg	☼	11/07/12 09:45	11/10/12 07:20	1
Ethylbenzene	ND		0.00216	0.000724	mg/Kg	☼	11/07/12 09:45	11/10/12 07:20	1
Naphthalene	ND		0.00540	0.00184	mg/Kg	☼	11/07/12 09:45	11/10/12 07:20	1
Toluene	ND		0.00216	0.000799	mg/Kg	☼	11/07/12 09:45	11/10/12 07:20	1
Xylenes, Total	ND		0.00540	0.000724	mg/Kg	☼	11/07/12 09:45	11/10/12 07:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 130	11/07/12 09:45	11/10/12 07:20	1
4-Bromofluorobenzene (Surr)	109		70 - 130	11/07/12 09:45	11/10/12 07:20	1
Dibromofluoromethane (Surr)	98		70 - 130	11/07/12 09:45	11/10/12 07:20	1
Toluene-d8 (Surr)	99		70 - 130	11/07/12 09:45	11/10/12 07:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0660	0.00985	mg/Kg	☼	11/08/12 15:28	11/10/12 20:04	1
Acenaphthylene	ND		0.0660	0.00886	mg/Kg	☼	11/08/12 15:28	11/10/12 20:04	1
Anthracene	ND		0.0660	0.00886	mg/Kg	☼	11/08/12 15:28	11/10/12 20:04	1
Benzo[a]anthracene	ND		0.0660	0.0148	mg/Kg	☼	11/08/12 15:28	11/10/12 20:04	1
Benzo[a]pyrene	0.0495	J	0.0660	0.0118	mg/Kg	☼	11/08/12 15:28	11/10/12 20:04	1
Benzo[b]fluoranthene	ND		0.0660	0.0118	mg/Kg	☼	11/08/12 15:28	11/10/12 20:04	1
Benzo[g,h,i]perylene	0.0216	J	0.0660	0.00886	mg/Kg	☼	11/08/12 15:28	11/10/12 20:04	1
Benzo[k]fluoranthene	ND		0.0660	0.0138	mg/Kg	☼	11/08/12 15:28	11/10/12 20:04	1
1-Methylnaphthalene	ND		0.0660	0.0138	mg/Kg	☼	11/08/12 15:28	11/10/12 20:04	1
Pyrene	ND		0.0660	0.0118	mg/Kg	☼	11/08/12 15:28	11/10/12 20:04	1
Phenanthrene	ND		0.0660	0.00886	mg/Kg	☼	11/08/12 15:28	11/10/12 20:04	1
Chrysene	0.0543	J	0.0660	0.00886	mg/Kg	☼	11/08/12 15:28	11/10/12 20:04	1
Dibenz(a,h)anthracene	ND		0.0660	0.00689	mg/Kg	☼	11/08/12 15:28	11/10/12 20:04	1
Fluoranthene	ND		0.0660	0.00886	mg/Kg	☼	11/08/12 15:28	11/10/12 20:04	1
Fluorene	ND		0.0660	0.0118	mg/Kg	☼	11/08/12 15:28	11/10/12 20:04	1
Indeno[1,2,3-cd]pyrene	0.0187	J	0.0660	0.00985	mg/Kg	☼	11/08/12 15:28	11/10/12 20:04	1
Naphthalene	ND		0.0660	0.00886	mg/Kg	☼	11/08/12 15:28	11/10/12 20:04	1
2-Methylnaphthalene	ND		0.0660	0.0158	mg/Kg	☼	11/08/12 15:28	11/10/12 20:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	66		29 - 120	11/08/12 15:28	11/10/12 20:04	1
Terphenyl-d14 (Surr)	81		13 - 120	11/08/12 15:28	11/10/12 20:04	1
Nitrobenzene-d5 (Surr)	71		27 - 120	11/08/12 15:28	11/10/12 20:04	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90		0.10	0.10	%			11/07/12 08:09	1

Client Sample Results

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

TestAmerica Job ID: 490-10764-1

Client Sample ID: 1345 Cardinal

Date Collected: 10/29/12 15:15

Date Received: 11/06/12 08:10

Lab Sample ID: 490-10764-2

Matrix: Solid

Percent Solids: 93.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00242	0.000812	mg/Kg	☼	11/07/12 09:45	11/12/12 21:26	1
Ethylbenzene	ND		0.00242	0.000812	mg/Kg	☼	11/07/12 09:45	11/12/12 21:26	1
Naphthalene	ND		0.00606	0.00206	mg/Kg	☼	11/07/12 09:45	11/12/12 21:26	1
Toluene	ND		0.00242	0.000897	mg/Kg	☼	11/07/12 09:45	11/12/12 21:26	1
Xylenes, Total	ND		0.00606	0.000812	mg/Kg	☼	11/07/12 09:45	11/12/12 21:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 130	11/07/12 09:45	11/12/12 21:26	1
4-Bromofluorobenzene (Surr)	114		70 - 130	11/07/12 09:45	11/12/12 21:26	1
Dibromofluoromethane (Surr)	102		70 - 130	11/07/12 09:45	11/12/12 21:26	1
Toluene-d8 (Surr)	96		70 - 130	11/07/12 09:45	11/12/12 21:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0654	0.00976	mg/Kg	☼	11/08/12 15:28	11/10/12 20:28	1
Acenaphthylene	ND		0.0654	0.00878	mg/Kg	☼	11/08/12 15:28	11/10/12 20:28	1
Anthracene	ND		0.0654	0.00878	mg/Kg	☼	11/08/12 15:28	11/10/12 20:28	1
Benzo[a]anthracene	ND		0.0654	0.0146	mg/Kg	☼	11/08/12 15:28	11/10/12 20:28	1
Benzo[a]pyrene	ND		0.0654	0.0117	mg/Kg	☼	11/08/12 15:28	11/10/12 20:28	1
Benzo[b]fluoranthene	ND		0.0654	0.0117	mg/Kg	☼	11/08/12 15:28	11/10/12 20:28	1
Benzo[g,h,i]perylene	ND		0.0654	0.00878	mg/Kg	☼	11/08/12 15:28	11/10/12 20:28	1
Benzo[k]fluoranthene	ND		0.0654	0.0137	mg/Kg	☼	11/08/12 15:28	11/10/12 20:28	1
1-Methylnaphthalene	ND		0.0654	0.0137	mg/Kg	☼	11/08/12 15:28	11/10/12 20:28	1
Pyrene	ND		0.0654	0.0117	mg/Kg	☼	11/08/12 15:28	11/10/12 20:28	1
Phenanthrene	ND		0.0654	0.00878	mg/Kg	☼	11/08/12 15:28	11/10/12 20:28	1
Chrysene	ND		0.0654	0.00878	mg/Kg	☼	11/08/12 15:28	11/10/12 20:28	1
Dibenz(a,h)anthracene	ND		0.0654	0.00683	mg/Kg	☼	11/08/12 15:28	11/10/12 20:28	1
Fluoranthene	ND		0.0654	0.00878	mg/Kg	☼	11/08/12 15:28	11/10/12 20:28	1
Fluorene	ND		0.0654	0.0117	mg/Kg	☼	11/08/12 15:28	11/10/12 20:28	1
Indeno[1,2,3-cd]pyrene	ND		0.0654	0.00976	mg/Kg	☼	11/08/12 15:28	11/10/12 20:28	1
Naphthalene	ND		0.0654	0.00878	mg/Kg	☼	11/08/12 15:28	11/10/12 20:28	1
2-Methylnaphthalene	ND		0.0654	0.0156	mg/Kg	☼	11/08/12 15:28	11/10/12 20:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	52		29 - 120	11/08/12 15:28	11/10/12 20:28	1
Terphenyl-d14 (Surr)	88		13 - 120	11/08/12 15:28	11/10/12 20:28	1
Nitrobenzene-d5 (Surr)	64		27 - 120	11/08/12 15:28	11/10/12 20:28	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	93		0.10	0.10	%			11/07/12 08:09	1

Client Sample Results

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

TestAmerica Job ID: 490-10764-1

Client Sample ID: 1133 Iris-2

Date Collected: 10/30/12 15:15

Date Received: 11/06/12 08:10

Lab Sample ID: 490-10764-3

Matrix: Solid

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00182	0.000610	mg/Kg	☼	11/07/12 09:45	11/12/12 22:58	1
Ethylbenzene	ND		0.00182	0.000610	mg/Kg	☼	11/07/12 09:45	11/12/12 22:58	1
Naphthalene	ND		0.00455	0.00155	mg/Kg	☼	11/07/12 09:45	11/12/12 22:58	1
Toluene	ND		0.00182	0.000673	mg/Kg	☼	11/07/12 09:45	11/12/12 22:58	1
Xylenes, Total	ND		0.00455	0.000610	mg/Kg	☼	11/07/12 09:45	11/12/12 22:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 130	11/07/12 09:45	11/12/12 22:58	1
4-Bromofluorobenzene (Surr)	103		70 - 130	11/07/12 09:45	11/12/12 22:58	1
Dibromofluoromethane (Surr)	105		70 - 130	11/07/12 09:45	11/12/12 22:58	1
Toluene-d8 (Surr)	98		70 - 130	11/07/12 09:45	11/12/12 22:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0654	0.00976	mg/Kg	☼	11/08/12 15:28	11/10/12 20:51	1
Acenaphthylene	ND		0.0654	0.00878	mg/Kg	☼	11/08/12 15:28	11/10/12 20:51	1
Anthracene	ND		0.0654	0.00878	mg/Kg	☼	11/08/12 15:28	11/10/12 20:51	1
Benzo[a]anthracene	ND		0.0654	0.0146	mg/Kg	☼	11/08/12 15:28	11/10/12 20:51	1
Benzo[a]pyrene	ND		0.0654	0.0117	mg/Kg	☼	11/08/12 15:28	11/10/12 20:51	1
Benzo[b]fluoranthene	ND		0.0654	0.0117	mg/Kg	☼	11/08/12 15:28	11/10/12 20:51	1
Benzo[g,h,i]perylene	ND		0.0654	0.00878	mg/Kg	☼	11/08/12 15:28	11/10/12 20:51	1
Benzo[k]fluoranthene	ND		0.0654	0.0137	mg/Kg	☼	11/08/12 15:28	11/10/12 20:51	1
1-Methylnaphthalene	ND		0.0654	0.0137	mg/Kg	☼	11/08/12 15:28	11/10/12 20:51	1
Pyrene	ND		0.0654	0.0117	mg/Kg	☼	11/08/12 15:28	11/10/12 20:51	1
Phenanthrene	ND		0.0654	0.00878	mg/Kg	☼	11/08/12 15:28	11/10/12 20:51	1
Chrysene	ND		0.0654	0.00878	mg/Kg	☼	11/08/12 15:28	11/10/12 20:51	1
Dibenz(a,h)anthracene	ND		0.0654	0.00683	mg/Kg	☼	11/08/12 15:28	11/10/12 20:51	1
Fluoranthene	ND		0.0654	0.00878	mg/Kg	☼	11/08/12 15:28	11/10/12 20:51	1
Fluorene	ND		0.0654	0.0117	mg/Kg	☼	11/08/12 15:28	11/10/12 20:51	1
Indeno[1,2,3-cd]pyrene	ND		0.0654	0.00976	mg/Kg	☼	11/08/12 15:28	11/10/12 20:51	1
Naphthalene	ND		0.0654	0.00878	mg/Kg	☼	11/08/12 15:28	11/10/12 20:51	1
2-Methylnaphthalene	ND		0.0654	0.0156	mg/Kg	☼	11/08/12 15:28	11/10/12 20:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	51		29 - 120	11/08/12 15:28	11/10/12 20:51	1
Terphenyl-d14 (Surr)	65		13 - 120	11/08/12 15:28	11/10/12 20:51	1
Nitrobenzene-d5 (Surr)	52		27 - 120	11/08/12 15:28	11/10/12 20:51	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83		0.10	0.10	%			11/07/12 08:09	1

Client Sample Results

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

TestAmerica Job ID: 490-10764-1

Client Sample ID: 841 Azalea

Lab Sample ID: 490-10764-4

Date Collected: 10/30/12 14:30

Matrix: Solid

Date Received: 11/06/12 08:10

Percent Solids: 72.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00304	0.00102	mg/Kg	☼	11/07/12 09:45	11/12/12 23:29	1
Ethylbenzene	ND		0.00304	0.00102	mg/Kg	☼	11/07/12 09:45	11/12/12 23:29	1
Naphthalene	ND		0.00760	0.00258	mg/Kg	☼	11/07/12 09:45	11/12/12 23:29	1
Toluene	ND		0.00304	0.00112	mg/Kg	☼	11/07/12 09:45	11/12/12 23:29	1
Xylenes, Total	ND		0.00760	0.00102	mg/Kg	☼	11/07/12 09:45	11/12/12 23:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 130	11/07/12 09:45	11/12/12 23:29	1
4-Bromofluorobenzene (Surr)	101		70 - 130	11/07/12 09:45	11/12/12 23:29	1
Dibromofluoromethane (Surr)	104		70 - 130	11/07/12 09:45	11/12/12 23:29	1
Toluene-d8 (Surr)	95		70 - 130	11/07/12 09:45	11/12/12 23:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0656	0.00979	mg/Kg	☼	11/08/12 15:28	11/10/12 21:15	1
Acenaphthylene	ND		0.0656	0.00881	mg/Kg	☼	11/08/12 15:28	11/10/12 21:15	1
Anthracene	ND		0.0656	0.00881	mg/Kg	☼	11/08/12 15:28	11/10/12 21:15	1
Benzo[a]anthracene	ND		0.0656	0.0147	mg/Kg	☼	11/08/12 15:28	11/10/12 21:15	1
Benzo[a]pyrene	ND		0.0656	0.0117	mg/Kg	☼	11/08/12 15:28	11/10/12 21:15	1
Benzo[b]fluoranthene	ND		0.0656	0.0117	mg/Kg	☼	11/08/12 15:28	11/10/12 21:15	1
Benzo[g,h,i]perylene	ND		0.0656	0.00881	mg/Kg	☼	11/08/12 15:28	11/10/12 21:15	1
Benzo[k]fluoranthene	ND		0.0656	0.0137	mg/Kg	☼	11/08/12 15:28	11/10/12 21:15	1
1-Methylnaphthalene	ND		0.0656	0.0137	mg/Kg	☼	11/08/12 15:28	11/10/12 21:15	1
Pyrene	ND		0.0656	0.0117	mg/Kg	☼	11/08/12 15:28	11/10/12 21:15	1
Phenanthrene	ND		0.0656	0.00881	mg/Kg	☼	11/08/12 15:28	11/10/12 21:15	1
Chrysene	ND		0.0656	0.00881	mg/Kg	☼	11/08/12 15:28	11/10/12 21:15	1
Dibenz(a,h)anthracene	ND		0.0656	0.00685	mg/Kg	☼	11/08/12 15:28	11/10/12 21:15	1
Fluoranthene	ND		0.0656	0.00881	mg/Kg	☼	11/08/12 15:28	11/10/12 21:15	1
Fluorene	ND		0.0656	0.0117	mg/Kg	☼	11/08/12 15:28	11/10/12 21:15	1
Indeno[1,2,3-cd]pyrene	ND		0.0656	0.00979	mg/Kg	☼	11/08/12 15:28	11/10/12 21:15	1
Naphthalene	ND		0.0656	0.00881	mg/Kg	☼	11/08/12 15:28	11/10/12 21:15	1
2-Methylnaphthalene	ND		0.0656	0.0157	mg/Kg	☼	11/08/12 15:28	11/10/12 21:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	43		29 - 120	11/08/12 15:28	11/10/12 21:15	1
Terphenyl-d14 (Surr)	62		13 - 120	11/08/12 15:28	11/10/12 21:15	1
Nitrobenzene-d5 (Surr)	45		27 - 120	11/08/12 15:28	11/10/12 21:15	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	73		0.10	0.10	%			11/07/12 08:09	1

Client Sample Results

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

TestAmerica Job ID: 490-10764-1

Client Sample ID: 1004 Bobwhite

Lab Sample ID: 490-10764-5

Date Collected: 10/31/12 15:30

Matrix: Solid

Date Received: 11/06/12 08:10

Percent Solids: 95.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00220	0.000736	mg/Kg	☼	11/07/12 09:45	11/13/12 00:00	1
Ethylbenzene	ND		0.00220	0.000736	mg/Kg	☼	11/07/12 09:45	11/13/12 00:00	1
Naphthalene	ND		0.00549	0.00187	mg/Kg	☼	11/07/12 09:45	11/13/12 00:00	1
Toluene	ND		0.00220	0.000813	mg/Kg	☼	11/07/12 09:45	11/13/12 00:00	1
Xylenes, Total	ND		0.00549	0.000736	mg/Kg	☼	11/07/12 09:45	11/13/12 00:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 130	11/07/12 09:45	11/13/12 00:00	1
4-Bromofluorobenzene (Surr)	111		70 - 130	11/07/12 09:45	11/13/12 00:00	1
Dibromofluoromethane (Surr)	106		70 - 130	11/07/12 09:45	11/13/12 00:00	1
Toluene-d8 (Surr)	96		70 - 130	11/07/12 09:45	11/13/12 00:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0660	0.00985	mg/Kg	☼	11/08/12 15:28	11/10/12 21:39	1
Acenaphthylene	ND		0.0660	0.00887	mg/Kg	☼	11/08/12 15:28	11/10/12 21:39	1
Anthracene	0.0527	J	0.0660	0.00887	mg/Kg	☼	11/08/12 15:28	11/10/12 21:39	1
Benzo[a]anthracene	0.849		0.0660	0.0148	mg/Kg	☼	11/08/12 15:28	11/10/12 21:39	1
Benzo[a]pyrene	0.485		0.0660	0.0118	mg/Kg	☼	11/08/12 15:28	11/10/12 21:39	1
Benzo[b]fluoranthene	0.895		0.0660	0.0118	mg/Kg	☼	11/08/12 15:28	11/10/12 21:39	1
Benzo[g,h,i]perylene	0.169		0.0660	0.00887	mg/Kg	☼	11/08/12 15:28	11/10/12 21:39	1
Benzo[k]fluoranthene	0.314		0.0660	0.0138	mg/Kg	☼	11/08/12 15:28	11/10/12 21:39	1
1-Methylnaphthalene	ND		0.0660	0.0138	mg/Kg	☼	11/08/12 15:28	11/10/12 21:39	1
Pyrene	1.57		0.0660	0.0118	mg/Kg	☼	11/08/12 15:28	11/10/12 21:39	1
Phenanthrene	0.267		0.0660	0.00887	mg/Kg	☼	11/08/12 15:28	11/10/12 21:39	1
Chrysene	0.930		0.0660	0.00887	mg/Kg	☼	11/08/12 15:28	11/10/12 21:39	1
Dibenz(a,h)anthracene	0.0717		0.0660	0.00690	mg/Kg	☼	11/08/12 15:28	11/10/12 21:39	1
Fluoranthene	1.64		0.0660	0.00887	mg/Kg	☼	11/08/12 15:28	11/10/12 21:39	1
Fluorene	ND		0.0660	0.0118	mg/Kg	☼	11/08/12 15:28	11/10/12 21:39	1
Indeno[1,2,3-cd]pyrene	0.178		0.0660	0.00985	mg/Kg	☼	11/08/12 15:28	11/10/12 21:39	1
Naphthalene	ND		0.0660	0.00887	mg/Kg	☼	11/08/12 15:28	11/10/12 21:39	1
2-Methylnaphthalene	ND		0.0660	0.0158	mg/Kg	☼	11/08/12 15:28	11/10/12 21:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	65		29 - 120	11/08/12 15:28	11/10/12 21:39	1
Terphenyl-d14 (Surr)	85		13 - 120	11/08/12 15:28	11/10/12 21:39	1
Nitrobenzene-d5 (Surr)	65		27 - 120	11/08/12 15:28	11/10/12 21:39	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95		0.10	0.10	%			11/07/12 08:09	1

Client Sample Results

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

TestAmerica Job ID: 490-10764-1

Client Sample ID: 471 Dogwood-2

Lab Sample ID: 490-10764-6

Date Collected: 10/31/12 14:35

Matrix: Solid

Date Received: 11/06/12 08:10

Percent Solids: 68.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00620		0.00248	0.000830	mg/Kg	☼	11/07/12 09:45	11/13/12 00:31	1
Ethylbenzene	0.244		0.00248	0.000830	mg/Kg	☼	11/07/12 09:45	11/13/12 00:31	1
Naphthalene	3.92		0.412	0.140	mg/Kg	☼	11/07/12 09:43	11/13/12 10:31	1
Toluene	ND		0.00248	0.000917	mg/Kg	☼	11/07/12 09:45	11/13/12 00:31	1
Xylenes, Total	0.101		0.00619	0.000830	mg/Kg	☼	11/07/12 09:45	11/13/12 00:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 130	11/07/12 09:45	11/13/12 00:31	1
1,2-Dichloroethane-d4 (Surr)	85		70 - 130	11/07/12 09:43	11/13/12 10:31	1
4-Bromofluorobenzene (Surr)	83		70 - 130	11/07/12 09:45	11/13/12 00:31	1
4-Bromofluorobenzene (Surr)	92		70 - 130	11/07/12 09:43	11/13/12 10:31	1
Dibromofluoromethane (Surr)	100		70 - 130	11/07/12 09:45	11/13/12 00:31	1
Dibromofluoromethane (Surr)	90		70 - 130	11/07/12 09:43	11/13/12 10:31	1
Toluene-d8 (Surr)	116		70 - 130	11/07/12 09:45	11/13/12 00:31	1
Toluene-d8 (Surr)	100		70 - 130	11/07/12 09:43	11/13/12 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0989		0.0663	0.00990	mg/Kg	☼	11/08/12 15:28	11/10/12 22:02	1
Acenaphthylene	ND		0.0663	0.00891	mg/Kg	☼	11/08/12 15:28	11/10/12 22:02	1
Anthracene	0.0504	J	0.0663	0.00891	mg/Kg	☼	11/08/12 15:28	11/10/12 22:02	1
Benzo[a]anthracene	ND		0.0663	0.0148	mg/Kg	☼	11/08/12 15:28	11/10/12 22:02	1
Benzo[a]pyrene	ND		0.0663	0.0119	mg/Kg	☼	11/08/12 15:28	11/10/12 22:02	1
Benzo[b]fluoranthene	ND		0.0663	0.0119	mg/Kg	☼	11/08/12 15:28	11/10/12 22:02	1
Benzo[g,h,i]perylene	ND		0.0663	0.00891	mg/Kg	☼	11/08/12 15:28	11/10/12 22:02	1
Benzo[k]fluoranthene	ND		0.0663	0.0139	mg/Kg	☼	11/08/12 15:28	11/10/12 22:02	1
1-Methylnaphthalene	1.34		0.0663	0.0139	mg/Kg	☼	11/08/12 15:28	11/10/12 22:02	1
Pyrene	ND		0.0663	0.0119	mg/Kg	☼	11/08/12 15:28	11/10/12 22:02	1
Phenanthrene	0.418		0.0663	0.00891	mg/Kg	☼	11/08/12 15:28	11/10/12 22:02	1
Chrysene	ND		0.0663	0.00891	mg/Kg	☼	11/08/12 15:28	11/10/12 22:02	1
Dibenz(a,h)anthracene	ND		0.0663	0.00693	mg/Kg	☼	11/08/12 15:28	11/10/12 22:02	1
Fluoranthene	ND		0.0663	0.00891	mg/Kg	☼	11/08/12 15:28	11/10/12 22:02	1
Fluorene	0.213		0.0663	0.0119	mg/Kg	☼	11/08/12 15:28	11/10/12 22:02	1
Indeno[1,2,3-cd]pyrene	ND		0.0663	0.00990	mg/Kg	☼	11/08/12 15:28	11/10/12 22:02	1
Naphthalene	0.368		0.0663	0.00891	mg/Kg	☼	11/08/12 15:28	11/10/12 22:02	1
2-Methylnaphthalene	2.19		0.0663	0.0158	mg/Kg	☼	11/08/12 15:28	11/10/12 22:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	36		29 - 120	11/08/12 15:28	11/10/12 22:02	1
Terphenyl-d14 (Surr)	48		13 - 120	11/08/12 15:28	11/10/12 22:02	1
Nitrobenzene-d5 (Surr)	38		27 - 120	11/08/12 15:28	11/10/12 22:02	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	69		0.10	0.10	%			11/07/12 08:09	1

Client Sample Results

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

TestAmerica Job ID: 490-10764-1

Client Sample ID: 471 Dogwood-3

Lab Sample ID: 490-10764-7

Date Collected: 11/01/12 15:35

Matrix: Solid

Date Received: 11/06/12 08:10

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0230		0.00189	0.000632	mg/Kg	☼	11/07/12 09:45	11/13/12 01:02	1
Ethylbenzene	0.391		0.122	0.0416	mg/Kg	☼	11/07/12 09:43	11/13/12 11:02	1
Naphthalene	3.46		0.306	0.104	mg/Kg	☼	11/07/12 09:43	11/13/12 11:02	1
Toluene	ND		0.00189	0.000698	mg/Kg	☼	11/07/12 09:45	11/13/12 01:02	1
Xylenes, Total	0.192		0.00471	0.000632	mg/Kg	☼	11/07/12 09:45	11/13/12 01:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		70 - 130	11/07/12 09:45	11/13/12 01:02	1
1,2-Dichloroethane-d4 (Surr)	83		70 - 130	11/07/12 09:43	11/13/12 11:02	1
4-Bromofluorobenzene (Surr)	417	X	70 - 130	11/07/12 09:45	11/13/12 01:02	1
4-Bromofluorobenzene (Surr)	97		70 - 130	11/07/12 09:43	11/13/12 11:02	1
Dibromofluoromethane (Surr)	93		70 - 130	11/07/12 09:45	11/13/12 01:02	1
Dibromofluoromethane (Surr)	93		70 - 130	11/07/12 09:43	11/13/12 11:02	1
Toluene-d8 (Surr)	139	X	70 - 130	11/07/12 09:45	11/13/12 01:02	1
Toluene-d8 (Surr)	99		70 - 130	11/07/12 09:43	11/13/12 11:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.326		0.0665	0.00993	mg/Kg	☼	11/08/12 15:28	11/10/12 22:26	1
Acenaphthylene	ND		0.0665	0.00893	mg/Kg	☼	11/08/12 15:28	11/10/12 22:26	1
Anthracene	0.578		0.0665	0.00893	mg/Kg	☼	11/08/12 15:28	11/10/12 22:26	1
Benzo[a]anthracene	0.853		0.0665	0.0149	mg/Kg	☼	11/08/12 15:28	11/10/12 22:26	1
Benzo[a]pyrene	0.314		0.0665	0.0119	mg/Kg	☼	11/08/12 15:28	11/10/12 22:26	1
Benzo[b]fluoranthene	0.563		0.0665	0.0119	mg/Kg	☼	11/08/12 15:28	11/10/12 22:26	1
Benzo[g,h,i]perylene	0.0820		0.0665	0.00893	mg/Kg	☼	11/08/12 15:28	11/10/12 22:26	1
Benzo[k]fluoranthene	0.212		0.0665	0.0139	mg/Kg	☼	11/08/12 15:28	11/10/12 22:26	1
1-Methylnaphthalene	2.68		0.0665	0.0139	mg/Kg	☼	11/08/12 15:28	11/10/12 22:26	1
Pyrene	2.31		0.0665	0.0119	mg/Kg	☼	11/08/12 15:28	11/10/12 22:26	1
Phenanthrene	3.92		0.332	0.0447	mg/Kg	☼	11/08/12 15:28	11/11/12 19:21	5
Chrysene	0.665		0.0665	0.00893	mg/Kg	☼	11/08/12 15:28	11/10/12 22:26	1
Dibenz[a,h]anthracene	0.0317	J	0.0665	0.00695	mg/Kg	☼	11/08/12 15:28	11/10/12 22:26	1
Fluoranthene	3.13		0.0665	0.00893	mg/Kg	☼	11/08/12 15:28	11/10/12 22:26	1
Fluorene	0.689		0.0665	0.0119	mg/Kg	☼	11/08/12 15:28	11/10/12 22:26	1
Indeno[1,2,3-cd]pyrene	0.0817		0.0665	0.00993	mg/Kg	☼	11/08/12 15:28	11/10/12 22:26	1
Naphthalene	1.06		0.0665	0.00893	mg/Kg	☼	11/08/12 15:28	11/10/12 22:26	1
2-Methylnaphthalene	5.27		0.332	0.0794	mg/Kg	☼	11/08/12 15:28	11/11/12 19:21	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	51		29 - 120	11/08/12 15:28	11/10/12 22:26	1
Terphenyl-d14 (Surr)	58		13 - 120	11/08/12 15:28	11/10/12 22:26	1
Nitrobenzene-d5 (Surr)	56		27 - 120	11/08/12 15:28	11/10/12 22:26	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81		0.10	0.10	%			11/07/12 08:09	1

QC Sample Results

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

TestAmerica Job ID: 490-10764-1

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

Lab Sample ID: MB 490-35106/6

Matrix: Solid

Analysis Batch: 35106

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000670	mg/Kg			11/10/12 06:19	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			11/10/12 06:19	1
Naphthalene	0.002381	J	0.00500	0.00170	mg/Kg			11/10/12 06:19	1
Toluene	ND		0.00200	0.000740	mg/Kg			11/10/12 06:19	1
Xylenes, Total	ND		0.00500	0.000670	mg/Kg			11/10/12 06:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		11/10/12 06:19	1
4-Bromofluorobenzene (Surr)	102		70 - 130		11/10/12 06:19	1
Dibromofluoromethane (Surr)	98		70 - 130		11/10/12 06:19	1
Toluene-d8 (Surr)	102		70 - 130		11/10/12 06:19	1

Lab Sample ID: LCS 490-35106/3

Matrix: Solid

Analysis Batch: 35106

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.05235		mg/Kg		105	75 - 127
Ethylbenzene	0.0500	0.05241		mg/Kg		105	80 - 134
Naphthalene	0.0500	0.06327		mg/Kg		127	69 - 150
Toluene	0.0500	0.05315		mg/Kg		106	80 - 132
Xylenes, Total	0.150	0.1581		mg/Kg		105	80 - 137

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
4-Bromofluorobenzene (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Lab Sample ID: LCSD 490-35106/4

Matrix: Solid

Analysis Batch: 35106

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	0.05037		mg/Kg		101	75 - 127	4	50
Ethylbenzene	0.0500	0.05124		mg/Kg		102	80 - 134	2	50
Naphthalene	0.0500	0.06276		mg/Kg		126	69 - 150	1	50
Toluene	0.0500	0.05057		mg/Kg		101	80 - 132	5	50
Xylenes, Total	0.150	0.1543		mg/Kg		103	80 - 137	2	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
Toluene-d8 (Surr)	97		70 - 130

QC Sample Results

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

TestAmerica Job ID: 490-10764-1

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

Lab Sample ID: MB 490-35535/7

Matrix: Solid

Analysis Batch: 35535

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.100	0.0335	mg/Kg			11/12/12 20:23	1
Ethylbenzene	ND		0.100	0.0335	mg/Kg			11/12/12 20:23	1
Naphthalene	ND		0.250	0.0850	mg/Kg			11/12/12 20:23	1
Toluene	ND		0.100	0.0370	mg/Kg			11/12/12 20:23	1
Xylenes, Total	ND		0.250	0.0335	mg/Kg			11/12/12 20:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		11/12/12 20:23	1
4-Bromofluorobenzene (Surr)	101		70 - 130		11/12/12 20:23	1
Dibromofluoromethane (Surr)	96		70 - 130		11/12/12 20:23	1
Toluene-d8 (Surr)	98		70 - 130		11/12/12 20:23	1

Lab Sample ID: MB 490-35535/8

Matrix: Solid

Analysis Batch: 35535

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000670	mg/Kg			11/12/12 20:55	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			11/12/12 20:55	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			11/12/12 20:55	1
Toluene	ND		0.00200	0.000740	mg/Kg			11/12/12 20:55	1
Xylenes, Total	ND		0.00500	0.000670	mg/Kg			11/12/12 20:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		11/12/12 20:55	1
4-Bromofluorobenzene (Surr)	98		70 - 130		11/12/12 20:55	1
Dibromofluoromethane (Surr)	102		70 - 130		11/12/12 20:55	1
Toluene-d8 (Surr)	96		70 - 130		11/12/12 20:55	1

Lab Sample ID: LCS 490-35535/3

Matrix: Solid

Analysis Batch: 35535

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.06017		mg/Kg		120	75 - 127
Ethylbenzene	0.0500	0.05003		mg/Kg		100	80 - 134
Naphthalene	0.0500	0.03985		mg/Kg		80	69 - 150
Toluene	0.0500	0.05590		mg/Kg		112	80 - 132
Xylenes, Total	0.150	0.1529		mg/Kg		102	80 - 137

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	90		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
Toluene-d8 (Surr)	97		70 - 130

QC Sample Results

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

TestAmerica Job ID: 490-10764-1

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

Lab Sample ID: LCSD 490-35535/4

Matrix: Solid

Analysis Batch: 35535

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	0.06072		mg/Kg		121	75 - 127	1	50
Ethylbenzene	0.0500	0.04949		mg/Kg		99	80 - 134	1	50
Naphthalene	0.0500	0.04222		mg/Kg		84	69 - 150	6	50
Toluene	0.0500	0.05613		mg/Kg		112	80 - 132	0	50
Xylenes, Total	0.150	0.1508		mg/Kg		101	80 - 137	1	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		70 - 130
4-Bromofluorobenzene (Surr)	91		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: MB 490-35544/6

Matrix: Solid

Analysis Batch: 35544

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.100	0.0340	mg/Kg			11/13/12 07:13	1
Ethylbenzene	ND		0.100	0.0340	mg/Kg			11/13/12 07:13	1
Naphthalene	ND		0.250	0.0850	mg/Kg			11/13/12 07:13	1
Toluene	ND		0.100	0.0370	mg/Kg			11/13/12 07:13	1
Xylenes, Total	ND		0.250	0.0340	mg/Kg			11/13/12 07:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		70 - 130		11/13/12 07:13	1
4-Bromofluorobenzene (Surr)	96		70 - 130		11/13/12 07:13	1
Dibromofluoromethane (Surr)	93		70 - 130		11/13/12 07:13	1
Toluene-d8 (Surr)	97		70 - 130		11/13/12 07:13	1

Lab Sample ID: LCS 490-35544/3

Matrix: Solid

Analysis Batch: 35544

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.05688		mg/Kg		114	75 - 127
Ethylbenzene	0.0500	0.04677		mg/Kg		94	80 - 134
Naphthalene	0.0500	0.03844		mg/Kg		77	69 - 150
Toluene	0.0500	0.05200		mg/Kg		104	80 - 132
Xylenes, Total	0.150	0.1398		mg/Kg		93	80 - 137

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	88		70 - 130
4-Bromofluorobenzene (Surr)	91		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
Toluene-d8 (Surr)	94		70 - 130

QC Sample Results

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

TestAmerica Job ID: 490-10764-1

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

Lab Sample ID: LCSD 490-35544/4

Matrix: Solid

Analysis Batch: 35544

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	0.05689		mg/Kg		114	75 - 127	0	50
Ethylbenzene	0.0500	0.04714		mg/Kg		94	80 - 134	1	50
Naphthalene	0.0500	0.03882		mg/Kg		78	69 - 150	1	50
Toluene	0.0500	0.05240		mg/Kg		105	80 - 132	1	50
Xylenes, Total	0.150	0.1400		mg/Kg		93	80 - 137	0	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	87		70 - 130
4-Bromofluorobenzene (Surr)	91		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
Toluene-d8 (Surr)	96		70 - 130

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

Lab Sample ID: MB 490-34510/1-A

Matrix: Solid

Analysis Batch: 35149

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34510

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0100	mg/Kg		11/08/12 11:46	11/10/12 17:43	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		11/08/12 11:46	11/10/12 17:43	1
Anthracene	ND		0.0670	0.00900	mg/Kg		11/08/12 11:46	11/10/12 17:43	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		11/08/12 11:46	11/10/12 17:43	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		11/08/12 11:46	11/10/12 17:43	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		11/08/12 11:46	11/10/12 17:43	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		11/08/12 11:46	11/10/12 17:43	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		11/08/12 11:46	11/10/12 17:43	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		11/08/12 11:46	11/10/12 17:43	1
Pyrene	ND		0.0670	0.0120	mg/Kg		11/08/12 11:46	11/10/12 17:43	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		11/08/12 11:46	11/10/12 17:43	1
Chrysene	ND		0.0670	0.00900	mg/Kg		11/08/12 11:46	11/10/12 17:43	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		11/08/12 11:46	11/10/12 17:43	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg		11/08/12 11:46	11/10/12 17:43	1
Fluorene	ND		0.0670	0.0120	mg/Kg		11/08/12 11:46	11/10/12 17:43	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		11/08/12 11:46	11/10/12 17:43	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		11/08/12 11:46	11/10/12 17:43	1
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		11/08/12 11:46	11/10/12 17:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	82		29 - 120	11/08/12 11:46	11/10/12 17:43	1
Terphenyl-d14 (Surr)	90		13 - 120	11/08/12 11:46	11/10/12 17:43	1
Nitrobenzene-d5 (Surr)	82		27 - 120	11/08/12 11:46	11/10/12 17:43	1

Lab Sample ID: LCS 490-34510/2-A

Matrix: Solid

Analysis Batch: 35149

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34510

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	1.67	1.346		mg/Kg		81	38 - 120

QC Sample Results

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

TestAmerica Job ID: 490-10764-1

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

Lab Sample ID: LCS 490-34510/2-A

Matrix: Solid

Analysis Batch: 35149

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34510

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1.67	1.593		mg/Kg		96	46 - 124
Benzo[a]anthracene	1.67	1.608		mg/Kg		96	45 - 120
Benzo[a]pyrene	1.67	1.589		mg/Kg		95	45 - 120
Benzo[b]fluoranthene	1.67	1.483		mg/Kg		89	42 - 120
Benzo[g,h,i]perylene	1.67	1.371		mg/Kg		82	38 - 120
Benzo[k]fluoranthene	1.67	1.516		mg/Kg		91	42 - 120
1-Methylnaphthalene	1.67	1.317		mg/Kg		79	32 - 120
Pyrene	1.67	1.634		mg/Kg		98	43 - 120
Phenanthrene	1.67	1.523		mg/Kg		91	45 - 120
Chrysene	1.67	1.563		mg/Kg		94	43 - 120
Dibenz(a,h)anthracene	1.67	1.433		mg/Kg		86	32 - 128
Fluoranthene	1.67	1.722		mg/Kg		103	46 - 120
Fluorene	1.67	1.430		mg/Kg		86	42 - 120
Indeno[1,2,3-cd]pyrene	1.67	1.438		mg/Kg		86	41 - 121
Naphthalene	1.67	1.505		mg/Kg		90	32 - 120
2-Methylnaphthalene	1.67	1.410		mg/Kg		85	28 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	67		29 - 120
Terphenyl-d14 (Surr)	92		13 - 120
Nitrobenzene-d5 (Surr)	76		27 - 120

Lab Sample ID: 490-10215-D-6-B MS

Matrix: Solid

Analysis Batch: 35149

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 34510

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	ND		1.66	1.225		mg/Kg	*	74	25 - 120
Anthracene	ND		1.66	1.148		mg/Kg	*	69	28 - 125
Benzo[a]anthracene	0.0358	J	1.66	1.479		mg/Kg	*	87	23 - 120
Benzo[a]pyrene	ND		1.66	1.350		mg/Kg	*	81	15 - 128
Benzo[b]fluoranthene	0.0390	J	1.66	1.357		mg/Kg	*	80	12 - 133
Benzo[g,h,i]perylene	ND		1.66	1.294		mg/Kg	*	78	22 - 120
Benzo[k]fluoranthene	0.0358	J	1.66	1.398		mg/Kg	*	82	28 - 120
1-Methylnaphthalene	ND		1.66	1.028		mg/Kg	*	62	10 - 120
Pyrene	0.0422	J	1.66	1.497		mg/Kg	*	88	20 - 123
Phenanthrene	ND		1.66	1.344		mg/Kg	*	81	21 - 122
Chrysene	0.0375	J	1.66	1.448		mg/Kg	*	85	20 - 120
Dibenz(a,h)anthracene	ND		1.66	1.292		mg/Kg	*	78	12 - 128
Fluoranthene	0.0415	J	1.66	1.457		mg/Kg	*	85	10 - 143
Fluorene	ND		1.66	1.147		mg/Kg	*	69	20 - 120
Indeno[1,2,3-cd]pyrene	ND		1.66	1.343		mg/Kg	*	81	22 - 121
Naphthalene	ND		1.66	1.241		mg/Kg	*	75	10 - 120
2-Methylnaphthalene	ND		1.66	1.214		mg/Kg	*	73	13 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl (Surr)	61		29 - 120
Terphenyl-d14 (Surr)	82		13 - 120
Nitrobenzene-d5 (Surr)	70		27 - 120

QC Sample Results

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

TestAmerica Job ID: 490-10764-1

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

Lab Sample ID: 490-10215-D-6-C MSD

Matrix: Solid

Analysis Batch: 35149

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 34510

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Acenaphthylene	ND		1.65	1.300		mg/Kg	⊗	79	25 - 120	6	50
Anthracene	ND		1.65	1.188		mg/Kg	⊗	72	28 - 125	3	49
Benzo[a]anthracene	0.0358	J	1.65	1.400		mg/Kg	⊗	83	23 - 120	5	50
Benzo[a]pyrene	ND		1.65	1.362		mg/Kg	⊗	82	15 - 128	1	50
Benzo[b]fluoranthene	0.0390	J	1.65	1.379		mg/Kg	⊗	81	12 - 133	2	50
Benzo[g,h,i]perylene	ND		1.65	1.308		mg/Kg	⊗	79	22 - 120	1	50
Benzo[k]fluoranthene	0.0358	J	1.65	1.332		mg/Kg	⊗	78	28 - 120	5	45
1-Methylnaphthalene	ND		1.65	1.208		mg/Kg	⊗	73	10 - 120	16	50
Pyrene	0.0422	J	1.65	1.332		mg/Kg	⊗	78	20 - 123	12	50
Phenanthrene	ND		1.65	1.302		mg/Kg	⊗	79	21 - 122	3	50
Chrysene	0.0375	J	1.65	1.411		mg/Kg	⊗	83	20 - 120	3	49
Dibenz(a,h)anthracene	ND		1.65	1.359		mg/Kg	⊗	82	12 - 128	5	50
Fluoranthene	0.0415	J	1.65	1.254		mg/Kg	⊗	73	10 - 143	15	50
Fluorene	ND		1.65	1.302		mg/Kg	⊗	79	20 - 120	13	50
Indeno[1,2,3-cd]pyrene	ND		1.65	1.345		mg/Kg	⊗	81	22 - 121	0	50
Naphthalene	ND		1.65	1.305		mg/Kg	⊗	79	10 - 120	5	50
2-Methylnaphthalene	ND		1.65	1.223		mg/Kg	⊗	74	13 - 120	1	50

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl (Surr)	62		29 - 120
Terphenyl-d14 (Surr)	77		13 - 120
Nitrobenzene-d5 (Surr)	65		27 - 120

Method: Moisture - Percent Moisture

Lab Sample ID: 490-10764-1 DU

Matrix: Solid

Analysis Batch: 34082

Client Sample ID: 1102 Iris-2

Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Percent Solids	90		90		%		0.1	20

QC Association Summary

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

TestAmerica Job ID: 490-10764-1

GC/MS VOA

Prep Batch: 34123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-10764-6	471 Dogwood-2	Total/NA	Solid	5035	
490-10764-7	471 Dogwood-3	Total/NA	Solid	5035	

Prep Batch: 34128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-10764-1	1102 Iris-2	Total/NA	Solid	5035	
490-10764-2	1345 Cardinal	Total/NA	Solid	5035	
490-10764-3	1133 Iris-2	Total/NA	Solid	5035	
490-10764-4	841 Azalea	Total/NA	Solid	5035	
490-10764-5	1004 Bobwhite	Total/NA	Solid	5035	
490-10764-6	471 Dogwood-2	Total/NA	Solid	5035	
490-10764-7	471 Dogwood-3	Total/NA	Solid	5035	

Analysis Batch: 35106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-10764-1	1102 Iris-2	Total/NA	Solid	8260B	34128
LCS 490-35106/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-35106/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-35106/6	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 35535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-10764-2	1345 Cardinal	Total/NA	Solid	8260B	34128
490-10764-3	1133 Iris-2	Total/NA	Solid	8260B	34128
490-10764-4	841 Azalea	Total/NA	Solid	8260B	34128
490-10764-5	1004 Bobwhite	Total/NA	Solid	8260B	34128
490-10764-6	471 Dogwood-2	Total/NA	Solid	8260B	34128
490-10764-7	471 Dogwood-3	Total/NA	Solid	8260B	34128
LCS 490-35535/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-35535/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-35535/7	Method Blank	Total/NA	Solid	8260B	
MB 490-35535/8	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 35544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-10764-6	471 Dogwood-2	Total/NA	Solid	8260B	34123
490-10764-7	471 Dogwood-3	Total/NA	Solid	8260B	34123
LCS 490-35544/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-35544/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-35544/6	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 34510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-10215-D-6-B MS	Matrix Spike	Total/NA	Solid	3550C	
490-10215-D-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	
490-10764-1	1102 Iris-2	Total/NA	Solid	3550C	
490-10764-2	1345 Cardinal	Total/NA	Solid	3550C	
490-10764-3	1133 Iris-2	Total/NA	Solid	3550C	
490-10764-4	841 Azalea	Total/NA	Solid	3550C	
490-10764-5	1004 Bobwhite	Total/NA	Solid	3550C	

QC Association Summary

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

TestAmerica Job ID: 490-10764-1

GC/MS Semi VOA (Continued)

Prep Batch: 34510 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-10764-6	471 Dogwood-2	Total/NA	Solid	3550C	
490-10764-7	471 Dogwood-3	Total/NA	Solid	3550C	
LCS 490-34510/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-34510/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 35149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-10215-D-6-B MS	Matrix Spike	Total/NA	Solid	8270D	34510
490-10215-D-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8270D	34510
490-10764-1	1102 Iris-2	Total/NA	Solid	8270D	34510
490-10764-2	1345 Cardinal	Total/NA	Solid	8270D	34510
490-10764-3	1133 Iris-2	Total/NA	Solid	8270D	34510
490-10764-4	841 Azalea	Total/NA	Solid	8270D	34510
490-10764-5	1004 Bobwhite	Total/NA	Solid	8270D	34510
490-10764-6	471 Dogwood-2	Total/NA	Solid	8270D	34510
490-10764-7	471 Dogwood-3	Total/NA	Solid	8270D	34510
LCS 490-34510/2-A	Lab Control Sample	Total/NA	Solid	8270D	34510
MB 490-34510/1-A	Method Blank	Total/NA	Solid	8270D	34510

Analysis Batch: 35261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-10764-7	471 Dogwood-3	Total/NA	Solid	8270D	34510

General Chemistry

Analysis Batch: 34082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-10764-1	1102 Iris-2	Total/NA	Solid	Moisture	
490-10764-1 DU	1102 Iris-2	Total/NA	Solid	Moisture	
490-10764-2	1345 Cardinal	Total/NA	Solid	Moisture	
490-10764-3	1133 Iris-2	Total/NA	Solid	Moisture	
490-10764-4	841 Azalea	Total/NA	Solid	Moisture	
490-10764-5	1004 Bobwhite	Total/NA	Solid	Moisture	
490-10764-6	471 Dogwood-2	Total/NA	Solid	Moisture	
490-10764-7	471 Dogwood-3	Total/NA	Solid	Moisture	

Lab Chronicle

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

TestAmerica Job ID: 490-10764-1

Client Sample ID: 1102 Iris-2

Date Collected: 10/29/12 14:15

Date Received: 11/06/12 08:10

Lab Sample ID: 490-10764-1

Matrix: Solid

Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			34128	11/07/12 09:45	ML	TAL NSH
Total/NA	Analysis	8260B		1	35106	11/10/12 07:20	AF	TAL NSH
Total/NA	Prep	3550C			34510	11/08/12 15:28	AK	TAL NSH
Total/NA	Analysis	8270D		1	35149	11/10/12 20:04	JS	TAL NSH
Total/NA	Analysis	Moisture		1	34082	11/07/12 08:09	RS	TAL NSH

Client Sample ID: 1345 Cardinal

Date Collected: 10/29/12 15:15

Date Received: 11/06/12 08:10

Lab Sample ID: 490-10764-2

Matrix: Solid

Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			34128	11/07/12 09:45	ML	TAL NSH
Total/NA	Analysis	8260B		1	35535	11/12/12 21:26	MH	TAL NSH
Total/NA	Prep	3550C			34510	11/08/12 15:28	AK	TAL NSH
Total/NA	Analysis	8270D		1	35149	11/10/12 20:28	JS	TAL NSH
Total/NA	Analysis	Moisture		1	34082	11/07/12 08:09	RS	TAL NSH

Client Sample ID: 1133 Iris-2

Date Collected: 10/30/12 15:15

Date Received: 11/06/12 08:10

Lab Sample ID: 490-10764-3

Matrix: Solid

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			34128	11/07/12 09:45	ML	TAL NSH
Total/NA	Analysis	8260B		1	35535	11/12/12 22:58	MH	TAL NSH
Total/NA	Prep	3550C			34510	11/08/12 15:28	AK	TAL NSH
Total/NA	Analysis	8270D		1	35149	11/10/12 20:51	JS	TAL NSH
Total/NA	Analysis	Moisture		1	34082	11/07/12 08:09	RS	TAL NSH

Client Sample ID: 841 Azalea

Date Collected: 10/30/12 14:30

Date Received: 11/06/12 08:10

Lab Sample ID: 490-10764-4

Matrix: Solid

Percent Solids: 72.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			34128	11/07/12 09:45	ML	TAL NSH
Total/NA	Analysis	8260B		1	35535	11/12/12 23:29	MH	TAL NSH
Total/NA	Prep	3550C			34510	11/08/12 15:28	AK	TAL NSH
Total/NA	Analysis	8270D		1	35149	11/10/12 21:15	JS	TAL NSH
Total/NA	Analysis	Moisture		1	34082	11/07/12 08:09	RS	TAL NSH

Lab Chronicle

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

TestAmerica Job ID: 490-10764-1

Client Sample ID: 1004 Bobwhite

Date Collected: 10/31/12 15:30

Date Received: 11/06/12 08:10

Lab Sample ID: 490-10764-5

Matrix: Solid

Percent Solids: 95.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			34128	11/07/12 09:45	ML	TAL NSH
Total/NA	Analysis	8260B		1	35535	11/13/12 00:00	MH	TAL NSH
Total/NA	Prep	3550C			34510	11/08/12 15:28	AK	TAL NSH
Total/NA	Analysis	8270D		1	35149	11/10/12 21:39	JS	TAL NSH
Total/NA	Analysis	Moisture		1	34082	11/07/12 08:09	RS	TAL NSH

Client Sample ID: 471 Dogwood-2

Date Collected: 10/31/12 14:35

Date Received: 11/06/12 08:10

Lab Sample ID: 490-10764-6

Matrix: Solid

Percent Solids: 68.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			34128	11/07/12 09:45	ML	TAL NSH
Total/NA	Analysis	8260B		1	35535	11/13/12 00:31	MH	TAL NSH
Total/NA	Prep	5035			34123	11/07/12 09:43	ML	TAL NSH
Total/NA	Analysis	8260B		1	35544	11/13/12 10:31	MH	TAL NSH
Total/NA	Prep	3550C			34510	11/08/12 15:28	AK	TAL NSH
Total/NA	Analysis	8270D		1	35149	11/10/12 22:02	JS	TAL NSH
Total/NA	Analysis	Moisture		1	34082	11/07/12 08:09	RS	TAL NSH

Client Sample ID: 471 Dogwood-3

Date Collected: 11/01/12 15:35

Date Received: 11/06/12 08:10

Lab Sample ID: 490-10764-7

Matrix: Solid

Percent Solids: 81.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			34128	11/07/12 09:45	ML	TAL NSH
Total/NA	Analysis	8260B		1	35535	11/13/12 01:02	MH	TAL NSH
Total/NA	Prep	5035			34123	11/07/12 09:43	ML	TAL NSH
Total/NA	Analysis	8260B		1	35544	11/13/12 11:02	MH	TAL NSH
Total/NA	Prep	3550C			34510	11/08/12 15:28	AK	TAL NSH
Total/NA	Analysis	8270D		1	35149	11/10/12 22:26	JS	TAL NSH
Total/NA	Analysis	8270D		5	35261	11/11/12 19:21	JS	TAL NSH
Total/NA	Analysis	Moisture		1	34082	11/07/12 08:09	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: 490-10764-1

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: 490-10764-1

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	NELAC	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	NELAC	4	E87358	06-30-13
Illinois	NELAC	5	200010	12-09-12
Iowa	State Program	7	131	05-01-14
Kansas	NELAC	7	E-10229	10-31-13
Kentucky	State Program	4	90038	12-31-12
Kentucky (UST)	State Program	4	19	09-15-13
Louisiana	NELAC	6	LA120025	12-31-12
Louisiana	NELAC	6	30613	06-30-13
Maryland	State Program	3	316	03-31-13
Massachusetts	State Program	1	M-TN032	06-30-13
Minnesota	NELAC	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	NELAC	1	2963	10-09-13
New Jersey	NELAC	2	TN965	06-30-13
New York	NELAC	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	NELAC	10	TN200001	04-30-13
Pennsylvania	NELAC	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	NELAC	6	T104704077-09-TX	08-31-13
USDA	Federal		S-48469	11-02-13
Utah	NELAC	8	TAN	06-30-13
Virginia	NELAC	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

COOLER RECEIPT FORM

Charleston



490-10764 Chain of Custody

Cooler Received/Opened On 11/6/2012 @ 0810

1. Tracking # 2525 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 97460373

2. Temperature of rep. sample or temp blank when opened: 0.4 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: 1 (Front)

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) [Signature]

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

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

I certify that I unloaded the cooler and answered questions 7-14 (initial) [Signature]

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) [Signature]

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) [Signature]

I certify that I attached a label with the unique LIMS number to each container (initial) [Signature]

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

#10 1133 Iris-2 - one Sodium Bisulfate vial - B-I-5. [Signature]

THE LEADER IN ENVIRONMENTAL TESTING

**Nashville Division
2960 Foster Creighton
Nashville, TN 37204**

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

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

Client Name/Account #: EEG - SBG # 2449
Address: 10179 Highway 78

City/State/Zip: Ladson, SC 29456Site State: SC

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

Telephone Number: 843.412.2097

Fax No.: 843-879-0401

Sampler Name: (Print)

Project ID: Laurel Bay Housing Project

Sampler Signature:

Project #:

Yes	No
Yes	No

Loc: 490

10764

[illegible]

Login Sample Receipt Checklist

Client: Environmental Enterprise Group

Job Number: 490-10764-1

Login Number: 10764

List Source: TestAmerica Nashville

List Number: 1

Creator: McBride, Mike

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.	N/A	
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

UST Certificate of Disposal

CONTRACTOR

Small Business Group, Inc.
7301 Rivers Avenue, Suite 245
N. Charleston SC 29406-4643

TEL (843) 879-0403

FAX (843) 879-0401

TANK ID & LOCATION

UST 1133Iris-2, 1133 Iris Lane, Laurel Bay Housing Area, MCAS Beaufort, S.C.

DISPOSAL LOCATION

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

TYPE OF TANK

SIZE (GAL)

Steel

280

CLEANING/DISPOSAL METHOD

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

DISPOSAL CERTIFICATION

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

T.C. V. Dree , 12/13/12
(Name) (Date)



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of 1		
3. Generator's Mailing Address: MCAS, BEAUFORT LAUREL BAY HOUSING BEAUFORT, SC 29907		4. Generator's Phone 843-228-6461		Generator's Site Address (If different than mailing):		A. Manifest Number WMNA 00316832		
5. Transporter 1 Company Name EEG, INC.		6. US EPA ID Number		C. State Transporter's ID		D. Transporter's Phone 843-879-0411		
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone		
9. Designated Facility Name and Site Address HICKORY HILL LANDFILL 2621 LOW COUNTRY ROAD RIDGELAND, SC 29936		10. US EPA ID Number		G. State Facility ID		H. State Facility Phone 843-987-4643		
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments	
	a. HEATING OIL TANKS FILLED WITH SAND WM Profile # 102655SC		No.	Type				
	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 1179 Bobwhite 1374 Dove 1133 Iris 1221 Cardinal								
Purchase Order # EMERGENCY CONTACT / PHONE NO.:								
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.								
Printed Name		Signature "On behalf of"				Month	Day	Year
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed Name				Signature		
		Month				Day	Year	
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed Name				Signature		
		Month				Day	Year	
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.							
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.							
Printed Name		Signature				Month	Day	Year

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

(Appendix C is not included due to the detection of free product)

Appendix D
Laboratory Analytical Report – Permanent Well Groundwater

Volatile Organic Compounds by GC/MS

Client: AECOM - Resolution Consultants				Laboratory ID: RG27006-014			
Description: BEALB1133MW01WG20160726				Matrix: Aqueous			
Date Sampled: 07/26/2016 1125							
Date Received: 07/27/2016							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	07/28/2016 0013	ECP		18488		

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	0.45	J	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		101	85-114
Dibromofluoromethane		96	80-119
1,2-Dichloroethane-d4		100	81-118
Toluene-d8		106	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: RG27006-014

Description: BEALB1133MW01WG20160726

Matrix: Aqueous

Date Sampled: 07/26/2016 1125

Date Received: 07/27/2016

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	08/03/2016 1652	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		69	44-120						
2-Fluorobiphenyl		63	44-119						
Terphenyl-d14		83	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 < 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

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,

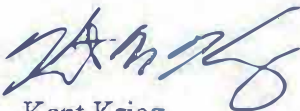
The South Carolina Department of Health and Environmental Control (the Department) received the above referenced Underground Storage Tank Assessment Reports for the addresses listed above. The regulatory authority for the investigation and cleanup of releases from these tank systems is the South Carolina 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 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 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 or 803-898-0294.

Sincerely,

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