SUMMARY REPORT
85 BLUEBELL LANE (FORMERLY 710 BLUEBELL LANE)
LAUREL BAY MILITARY HOUSING AREA
MARINE CORPS AIR STATION BEAUFORT
BEAUFORT, SC

Revision: 0
Prepared for:

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

and

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

JUNE 2021

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Prepared by:

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

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

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Appendices

List of Acronyms

bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
CTO	Contract Task Order
COPC	constituents of potential concern
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 85 Bluebell Lane (Formerly 710 Bluebell Lane). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

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

1.1 Background Information

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

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

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

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

1.2 UST Removal and Assessment Process

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

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

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

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

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

2.0 SAMPLING ACTIVITIES AND RESULTS

The following section presents the sampling activities and associated results for 85 Bluebell Lane (Formerly 710 Bluebell Lane). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 710 Bluebell Lane* (MCAS Beaufort, 2013). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On March 6, 2013, a single 280 gallon heating oil UST was removed from the concrete porch area at 85 Bluebell Lane (Formerly 710 Bluebell Lane). The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). The UST was removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of the UST was

6'7" bgs and one sample was collected from that depth. The sample was collected from the fill port side of the former UST to represent a worst case scenario.

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

2.2 Soil Analytical Results

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

The soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form (Appendix B). The results of the soil sampling at the former UST location were used by MCAS Beaufort, in consultation with SCDHEC, to determine a path forward (i.e., additional sampling or NFA) for the property. The soil results collected from 85 Bluebell Lane (Formerly 710 Bluebell Lane) were less than the SCDHEC RBSLs, which indicated the subsurface was not impacted by COPCs associated with the former UST at concentrations that presented a potential risk to human health and the environment.

3.0 PROPERTY STATUS

Based on the analytical results for soil, SCDHEC made the determination that NFA was required for 85 Bluebell Lane (Formerly 710 Bluebell Lane). This NFA determination was obtained in a letter dated May 15, 2014. SCDHEC's NFA letter is provided in Appendix C.

4.0 REFERENCES

Marine Corps Air Station Beaufort, 2013. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 710 Bluebell Lane, Laurel Bay Military Housing Area*, June 2013.

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

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

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

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

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

Table

Table 1
Laboratory Analytical Results - Soil
85 Bluebell Lane (Formerly 710 Bluebell Lane)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs [(1)]	Results Sample Collected 03/06/13
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)		
Benzene	0.003	ND
Ethylbenzene	1.15	ND
Naphthalene	0.036	ND
Toluene	0.627	ND
Xylenes, Total	13.01	ND
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (mg/kg)		
Benzo(a)anthracene	0.66	0.140
Benzo(b)fluoranthene	0.66	0.252
Benzo(k)fluoranthene	0.66	0.104
Chrysene	0.66	0.225
Dibenz(a,h)anthracene	0.66	0.0244

Notes:

[(1)] South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 2.0 (SCDHEC, April 2013).

Bold font indicates the analyte was detected.

Bold font and shading indicates the concentration exceeds the SCDHEC RBSL.

EPA - United States Environmental Protection Agency

mg/kg - milligram per kilogram

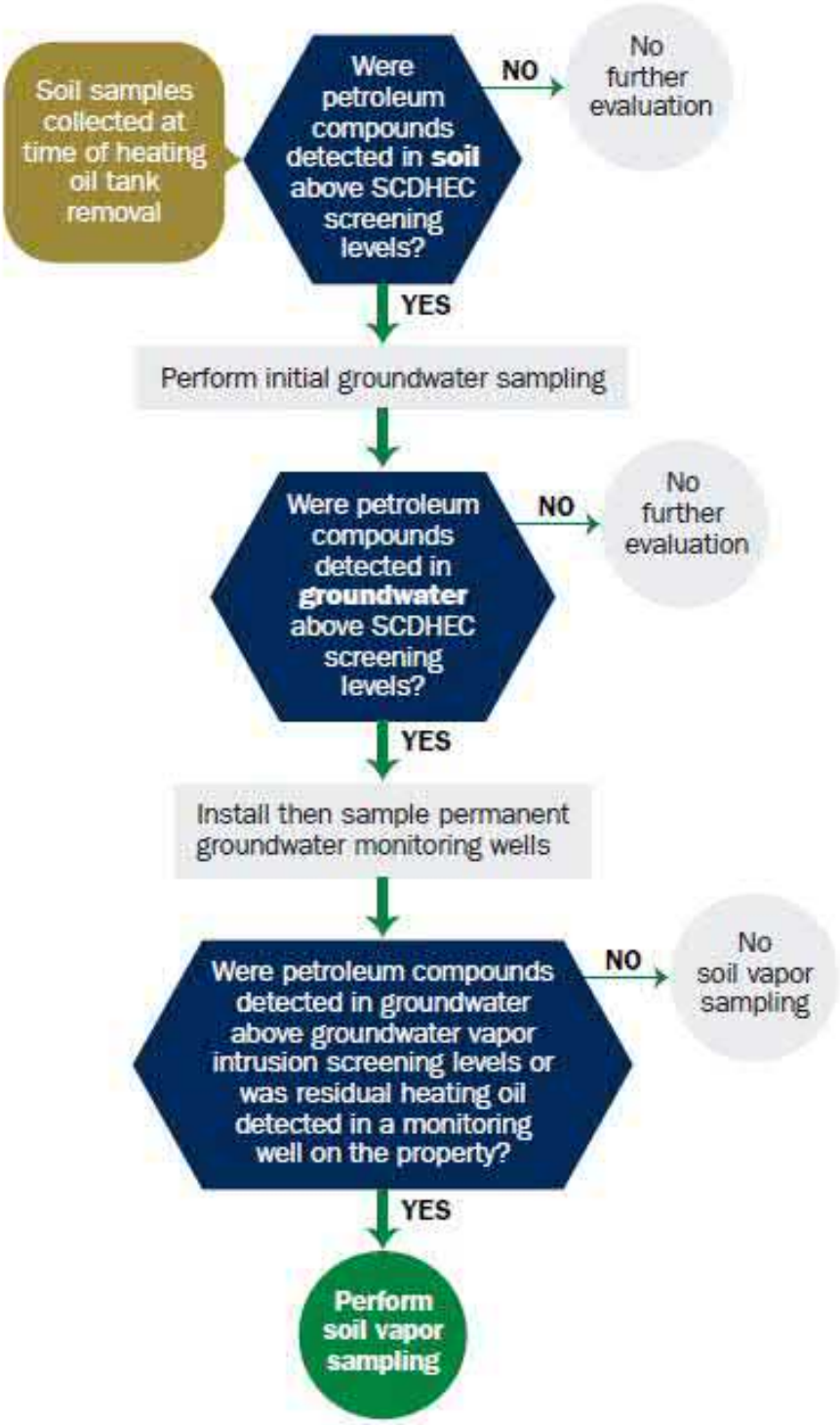
ND - not detected at the reporting limit (or method detection limit if shown on the laboratory report). The laboratory report is provided in Appendix B.

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

Appendix A
Multi-Media Selection Process for LBMH

CDM - AECOM
Multimedia Joint Venture



Appendix A - Multi-Media Selection Process for LBMH

Appendix B
UST Assessment Report

CDM - AECOM
Multimedia Joint Venture

Attachment 1

South Carolina Department of Health and Environmental Control (SCDHEC)

Underground Storage Tank (UST) Assessment Report

Date Received
State Use Only

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

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

710 Bluebell 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).....	710Bluebell	
B.	Capacity..(ex. 1k, 2k).....	Heating oil	
C.	Age.....	280 gal	
D.	Construction Material..(ex. Steel, FRP).....	Late 1950s	
E.	Month/Year of Last Use.....	Steel	
F.	Depth (ft.) To Base of Tank.....	Mid 80s	
G.	Spill Prevention Equipment Y/N.....	6'7"	
H.	Overfill Prevention Equipment Y/N.....	No	
I.	Method of Closure Removed/Filled.....	No	
J.	Date Tanks Removed/Filled.....	Removed	
K.	Visible Corrosion or Pitting Y/N.....	3/6/2013	
L.	Visible Holes Y/N.....	Yes	
		Yes	

M. Method of disposal for any USTs removed from the ground (attach disposal manifests)
UST 710Bluebell was removed from the ground and disposed at a Subtitle "D" landfill. See Attachment "A".

N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests)
UST 710Bluebell had been previously filled with sand by others.

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

VII. PIPING INFORMATION

710Bluebell		
Steel & Copper		
N/A		
N/A		
Suction		
No		
Yes		
No		
Late 1950s		

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

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

C. Number of Dispensers.....

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

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

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

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

H. Age.....

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

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

VIII. BRIEF SITE DESCRIPTION AND HISTORY

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

IX. SITE CONDITIONS

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

X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 84009

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
710 Bluebell	Excav at fill end	Soil	Sandy	6'7"	3/6/13 1130 hrs	P. Shaw	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

* = Depth Below the Surrounding Land Surface

XI. SAMPLING METHODOLOGY

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

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

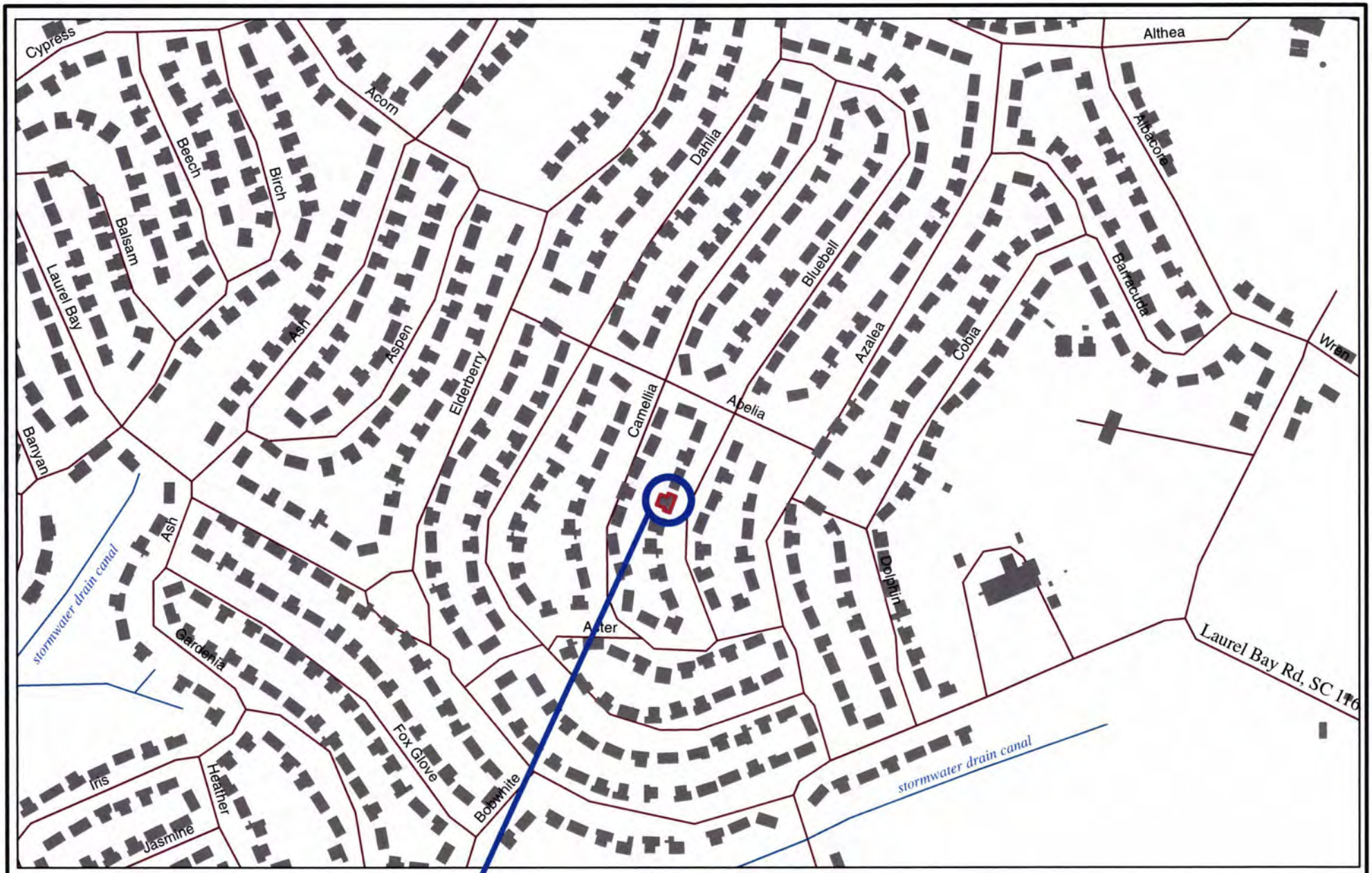
XII. RECEPTORS

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

XIII. SITE MAP

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

(Attach Site Map Here)

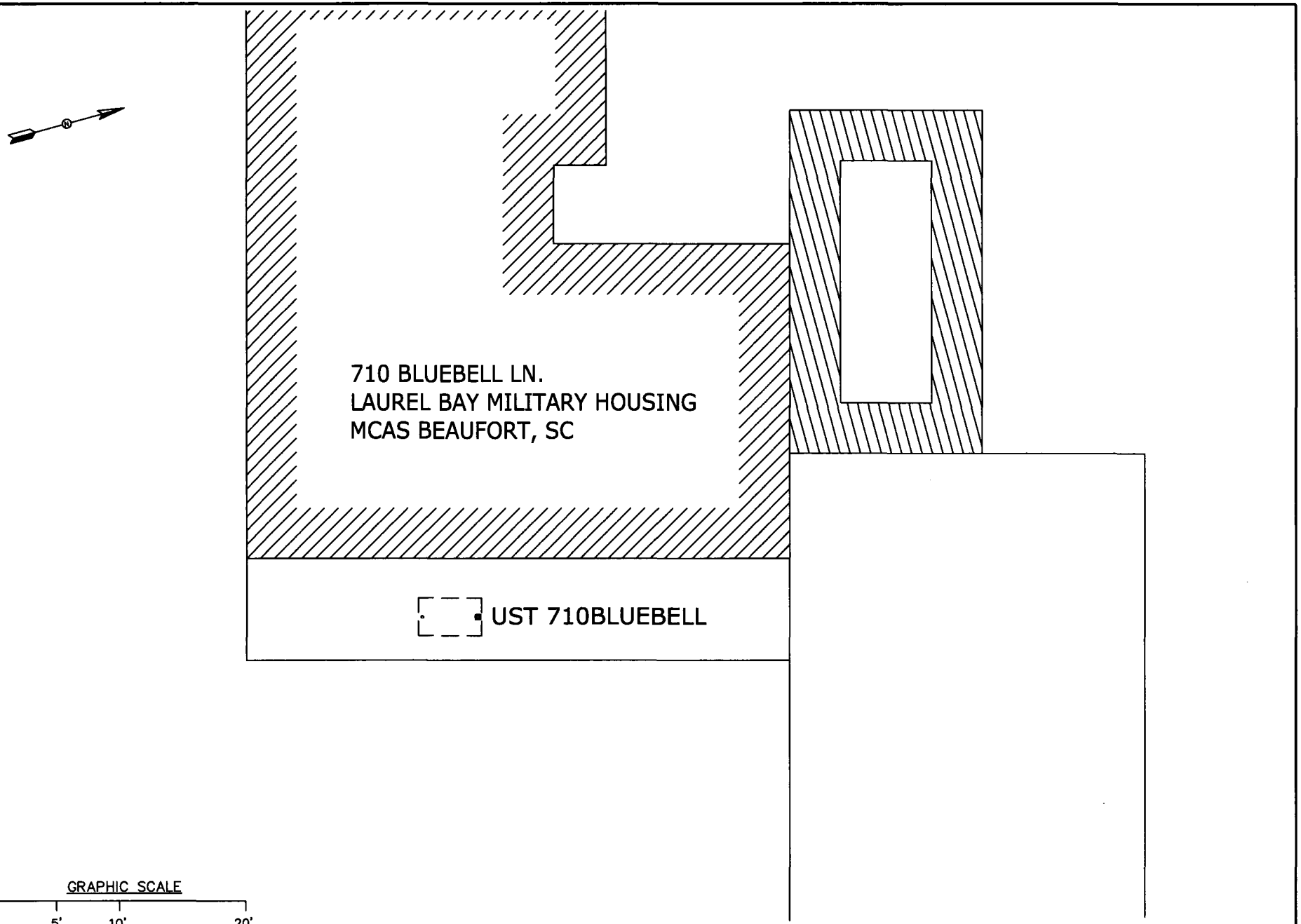


SBG-EEG, Inc.
7301 Rivers Ave., Suite 245
N. Charleston SC 29406-9643
Ph. (843) 573-7140

Drawn By: L. DiAsio

Dwg Date: Apr 2013

FIGURE 1: LOCATION MAP
710 BLUEBELL LANE
LAUREL BAY, BEAUFORT SC



GRAPHIC SCALE

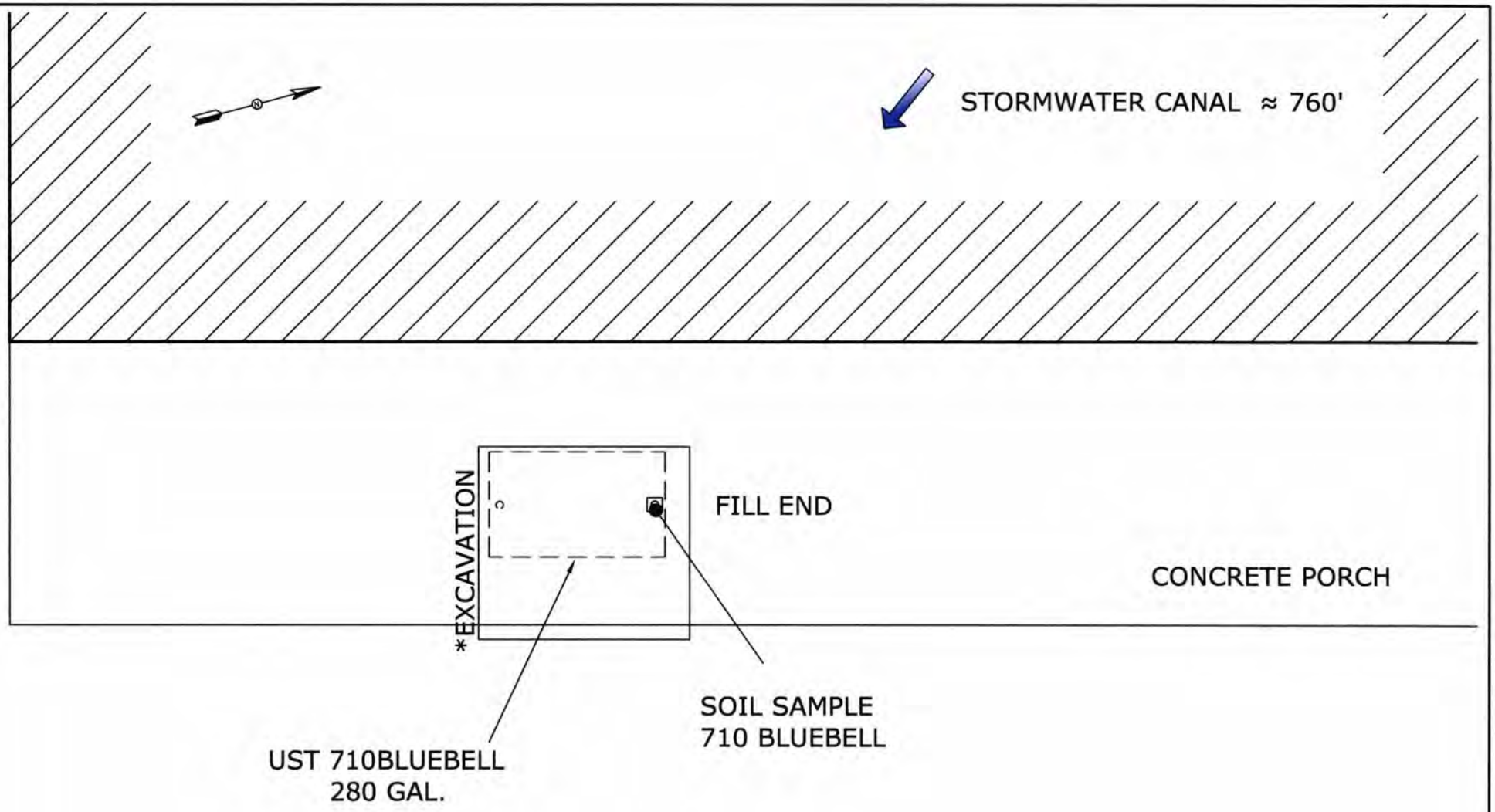
0 5' 10' 20'

TANK DEPTH BELOW GRADE
710BLUEBELL = 43"

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

FIGURE 2 SITE MAP
710 BLUEBELL LN., LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC | DWG DATE APR 2013



GRAPHIC SCALE
0 5'

*A PORTION OF THE PORCH WAS REMOVED TO FACILITATE EXTRACTING THE TANK.

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

FIGURE 3 UST SAMPLE LOCATIONS
710 BLUEBELL LN., LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC | DWG DATE APR 2013

Picture 1: Location of UST 710Bluebell.

Picture 2: UST 710Bluebell 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	710Bluebell					
Benzene	ND					
Toluene	ND					
Ethylbenzene	ND					
Xylenes	ND					
Naphthalene	ND					
Benzo (a) anthracene	0.140 mg/kg					
Benzo (b) fluoranthene	0.252 mg/kg					
Benzo (k) fluoranthene	0.104 mg/kg					
Chrysene	0.225 mg/kg					
Dibenz (a, h) anthracene	0.0244 mg/kg					
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: 490-21711-1
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:
3/27/2013 10:40:14 AM

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

Table of Contents

Sample Summary

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

TestAmerica Job ID: 490-21711-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-21711-1	1375 Dove	Solid	03/05/13 13:35	03/13/13 08:10
490-21711-2	710 Bluebell	Solid	03/06/13 11:30	03/13/13 08:10
490-21711-3	643 Dahlia - a	Solid	03/07/13 14:05	03/13/13 08:10
490-21711-4	1421 Albatross	Solid	03/05/13 14:45	03/13/13 08:10
490-21711-5	715 Bluebell	Solid	03/06/13 14:30	03/13/13 08:10
490-21711-6	1256 Dove	Solid	03/07/13 15:00	03/13/13 08:10

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

TestAmerica Job ID: 490-21711-1

Job ID: 490-21711-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-21711-1

Comments
No additional comments.

Receipt
The samples were received on 3/13/2013 8:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3° C.

GC/MS VOA
Method(s) 8260B: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample(s): 1421 Albatross (490-21711-4).

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside control limits: 1421 Albatross (490-21711-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B: MS/MSD for batch 65345 was not reportable due to failing internal standards. See LCS/LCSD for batch precision.

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside control limits: 1421 Albatross (490-21711-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 65720.

No other analytical or quality issues were noted.

GC/MS Semi VOA
Method(s) 8270D: The following sample(s) was diluted due to the nature of the sample matrix: 1421 Albatross (490-21711-4). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: Due to sample matrix effect on the internal standard (ISTD)of the 1x, a dilution was required for the following sample(s): 1421 Albatross (490-21711-4).

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

VOA Prep
No analytical or quality issues were noted.

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
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

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

TestAmerica Job ID: 490-21711-1

Client Sample ID: 1375 Dove

Date Collected: 03/05/13 13:35
Date Received: 03/13/13 08:10

Lab Sample ID: 490-21711-1

Matrix: Solid
Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00232	0.000776	mg/Kg	☼	03/14/13 17:05	03/15/13 17:59	1
Ethylbenzene	ND		0.00232	0.000776	mg/Kg	☼	03/14/13 17:05	03/15/13 17:59	1
Naphthalene	ND		0.00579	0.00197	mg/Kg	☼	03/14/13 17:05	03/15/13 17:59	1
Toluene	ND		0.00232	0.000858	mg/Kg	☼	03/14/13 17:05	03/15/13 17:59	1
Xylenes, Total	ND		0.00579	0.000776	mg/Kg	☼	03/14/13 17:05	03/15/13 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*	*03/14/13 17:05*	*03/15/13 17:59*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*03/14/13 17:05*	*03/15/13 17:59*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*03/14/13 17:05*	*03/15/13 17:59*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*	*03/14/13 17:05*	*03/15/13 17:59*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0830	0.0124	mg/Kg	☼	03/15/13 06:52	03/15/13 18:22	1
Acenaphthylene	ND		0.0830	0.0111	mg/Kg	☼	03/15/13 06:52	03/15/13 18:22	1
Anthracene	ND		0.0830	0.0111	mg/Kg	☼	03/15/13 06:52	03/15/13 18:22	1
Benzo[a]anthracene	ND		0.0830	0.0186	mg/Kg	☼	03/15/13 06:52	03/15/13 18:22	1
Benzo[a]pyrene	ND		0.0830	0.0149	mg/Kg	☼	03/15/13 06:52	03/15/13 18:22	1
Benzo[b]fluoranthene	ND		0.0830	0.0149	mg/Kg	☼	03/15/13 06:52	03/15/13 18:22	1
Benzo[g,h,i]perylene	ND		0.0830	0.0111	mg/Kg	☼	03/15/13 06:52	03/15/13 18:22	1
Benzo[k]fluoranthene	ND		0.0830	0.0173	mg/Kg	☼	03/15/13 06:52	03/15/13 18:22	1
1-Methylnaphthalene	ND		0.0830	0.0173	mg/Kg	☼	03/15/13 06:52	03/15/13 18:22	1
Pyrene	ND		0.0830	0.0149	mg/Kg	☼	03/15/13 06:52	03/15/13 18:22	1
Phenanthrene	ND		0.0830	0.0111	mg/Kg	☼	03/15/13 06:52	03/15/13 18:22	1
Chrysene	ND		0.0830	0.0111	mg/Kg	☼	03/15/13 06:52	03/15/13 18:22	1
Dibenz(a,h)anthracene	ND		0.0830	0.00867	mg/Kg	☼	03/15/13 06:52	03/15/13 18:22	1
Fluoranthene	ND		0.0830	0.0111	mg/Kg	☼	03/15/13 06:52	03/15/13 18:22	1
Fluorene	ND		0.0830	0.0149	mg/Kg	☼	03/15/13 06:52	03/15/13 18:22	1
Indeno[1,2,3-cd]pyrene	ND		0.0830	0.0124	mg/Kg	☼	03/15/13 06:52	03/15/13 18:22	1
Naphthalene	ND		0.0830	0.0111	mg/Kg	☼	03/15/13 06:52	03/15/13 18:22	1
2-Methylnaphthalene	ND		0.0830	0.0198	mg/Kg	☼	03/15/13 06:52	03/15/13 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*51*		*29 - 120*	*03/15/13 06:52*	*03/15/13 18:22*	*1*
Terphenyl-d14 (Surr)	*76*		*13 - 120*	*03/15/13 06:52*	*03/15/13 18:22*	*1*
Nitrobenzene-d5 (Surr)	*52*		*27 - 120*	*03/15/13 06:52*	*03/15/13 18:22*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80		0.10	0.10	%			03/15/13 08:19	1

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

TestAmerica Job ID: 490-21711-1

Client Sample ID: 710 Bluebell
Date Collected: 03/06/13 11:30
Date Received: 03/13/13 08:10

Lab Sample ID: 490-21711-2
Matrix: Solid
Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00276	0.000926	mg/Kg	☼	03/14/13 17:05	03/15/13 18:26	1
Ethylbenzene	ND		0.00276	0.000926	mg/Kg	☼	03/14/13 17:05	03/15/13 18:26	1
Naphthalene	ND		0.00691	0.00235	mg/Kg	☼	03/14/13 17:05	03/15/13 18:26	1
Toluene	ND		0.00276	0.00102	mg/Kg	☼	03/14/13 17:05	03/15/13 18:26	1
Xylenes, Total	ND		0.00691	0.000926	mg/Kg	☼	03/14/13 17:05	03/15/13 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*	*03/14/13 17:05*	*03/15/13 18:26*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*03/14/13 17:05*	*03/15/13 18:26*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*03/14/13 17:05*	*03/15/13 18:26*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*	*03/14/13 17:05*	*03/15/13 18:26*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0796	0.0119	mg/Kg	☼	03/15/13 06:52	03/15/13 18:44	1
Acenaphthylene	ND		0.0796	0.0107	mg/Kg	☼	03/15/13 06:52	03/15/13 18:44	1
Anthracene	**0.0153**	**J**	0.0796	0.0107	mg/Kg	☼	03/15/13 06:52	03/15/13 18:44	1
Benzo[a]anthracene	**0.140**		0.0796	0.0178	mg/Kg	☼	03/15/13 06:52	03/15/13 18:44	1
Benzo[a]pyrene	**0.136**		0.0796	0.0143	mg/Kg	☼	03/15/13 06:52	03/15/13 18:44	1
Benzo[b]fluoranthene	**0.252**		0.0796	0.0143	mg/Kg	☼	03/15/13 06:52	03/15/13 18:44	1
Benzo[g,h,i]perylene	**0.109**		0.0796	0.0107	mg/Kg	☼	03/15/13 06:52	03/15/13 18:44	1
Benzo[k]fluoranthene	**0.104**		0.0796	0.0166	mg/Kg	☼	03/15/13 06:52	03/15/13 18:44	1
1-Methylnaphthalene	ND		0.0796	0.0166	mg/Kg	☼	03/15/13 06:52	03/15/13 18:44	1
Pyrene	**0.280**		0.0796	0.0143	mg/Kg	☼	03/15/13 06:52	03/15/13 18:44	1
Phenanthrene	**0.136**		0.0796	0.0107	mg/Kg	☼	03/15/13 06:52	03/15/13 18:44	1
Chrysene	**0.225**		0.0796	0.0107	mg/Kg	☼	03/15/13 06:52	03/15/13 18:44	1
Dibenz(a,h)anthracene	**0.0244**	**J**	0.0796	0.00831	mg/Kg	☼	03/15/13 06:52	03/15/13 18:44	1
Fluoranthene	**0.397**		0.0796	0.0107	mg/Kg	☼	03/15/13 06:52	03/15/13 18:44	1
Fluorene	ND		0.0796	0.0143	mg/Kg	☼	03/15/13 06:52	03/15/13 18:44	1
Indeno[1,2,3-cd]pyrene	**0.0938**		0.0796	0.0119	mg/Kg	☼	03/15/13 06:52	03/15/13 18:44	1
Naphthalene	ND		0.0796	0.0107	mg/Kg	☼	03/15/13 06:52	03/15/13 18:44	1
2-Methylnaphthalene	ND		0.0796	0.0190	mg/Kg	☼	03/15/13 06:52	03/15/13 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*54*		*29 - 120*	*03/15/13 06:52*	*03/15/13 18:44*	*1*
Terphenyl-d14 (Surr)	*66*		*13 - 120*	*03/15/13 06:52*	*03/15/13 18:44*	*1*
Nitrobenzene-d5 (Surr)	*49*		*27 - 120*	*03/15/13 06:52*	*03/15/13 18:44*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**83**		0.10	0.10	%			03/15/13 08:19	1

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

TestAmerica Job ID: 490-21711-1

Client Sample ID: 643 Dahlia - a
Date Collected: 03/07/13 14:05
Date Received: 03/13/13 08:10

Lab Sample ID: 490-21711-3
Matrix: Solid
Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000669	mg/Kg	☼	03/14/13 17:05	03/15/13 18:54	1
Ethylbenzene	ND		0.00200	0.000669	mg/Kg	☼	03/14/13 17:05	03/15/13 18:54	1
Naphthalene	0.0203		0.00500	0.00170	mg/Kg	☼	03/14/13 17:05	03/15/13 18:54	1
Toluene	ND		0.00200	0.000739	mg/Kg	☼	03/14/13 17:05	03/15/13 18:54	1
Xylenes, Total	ND		0.00500	0.000669	mg/Kg	☼	03/14/13 17:05	03/15/13 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*	*03/14/13 17:05*	*03/15/13 18:54*	*1*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*03/14/13 17:05*	*03/15/13 18:54*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/14/13 17:05*	*03/15/13 18:54*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*	*03/14/13 17:05*	*03/15/13 18:54*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0831	0.0124	mg/Kg	☼	03/15/13 06:52	03/15/13 19:28	1
Acenaphthylene	ND		0.0831	0.0112	mg/Kg	☼	03/15/13 06:52	03/15/13 19:28	1
Anthracene	0.0241	J	0.0831	0.0112	mg/Kg	☼	03/15/13 06:52	03/15/13 19:28	1
Benzo[a]anthracene	ND		0.0831	0.0186	mg/Kg	☼	03/15/13 06:52	03/15/13 19:28	1
Benzo[a]pyrene	ND		0.0831	0.0149	mg/Kg	☼	03/15/13 06:52	03/15/13 19:28	1
Benzo[b]fluoranthene	ND		0.0831	0.0149	mg/Kg	☼	03/15/13 06:52	03/15/13 19:28	1
Benzo[g,h,i]perylene	ND		0.0831	0.0112	mg/Kg	☼	03/15/13 06:52	03/15/13 19:28	1
Benzo[k]fluoranthene	ND		0.0831	0.0174	mg/Kg	☼	03/15/13 06:52	03/15/13 19:28	1
1-Methylnaphthalene	0.0817	J	0.0831	0.0174	mg/Kg	☼	03/15/13 06:52	03/15/13 19:28	1
Pyrene	0.0964		0.0831	0.0149	mg/Kg	☼	03/15/13 06:52	03/15/13 19:28	1
Phenanthrene	0.108		0.0831	0.0112	mg/Kg	☼	03/15/13 06:52	03/15/13 19:28	1
Chrysene	ND		0.0831	0.0112	mg/Kg	☼	03/15/13 06:52	03/15/13 19:28	1
Dibenz(a,h)anthracene	ND		0.0831	0.00868	mg/Kg	☼	03/15/13 06:52	03/15/13 19:28	1
Fluoranthene	0.144		0.0831	0.0112	mg/Kg	☼	03/15/13 06:52	03/15/13 19:28	1
Fluorene	ND		0.0831	0.0149	mg/Kg	☼	03/15/13 06:52	03/15/13 19:28	1
Indeno[1,2,3-cd]pyrene	ND		0.0831	0.0124	mg/Kg	☼	03/15/13 06:52	03/15/13 19:28	1
Naphthalene	ND		0.0831	0.0112	mg/Kg	☼	03/15/13 06:52	03/15/13 19:28	1
2-Methylnaphthalene	0.110		0.0831	0.0198	mg/Kg	☼	03/15/13 06:52	03/15/13 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*63*		*29 - 120*	*03/15/13 06:52*	*03/15/13 19:28*	*1*
Terphenyl-d14 (Surr)	*74*		*13 - 120*	*03/15/13 06:52*	*03/15/13 19:28*	*1*
Nitrobenzene-d5 (Surr)	*60*		*27 - 120*	*03/15/13 06:52*	*03/15/13 19:28*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79		0.10	0.10	%			03/15/13 08:19	1

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

TestAmerica Job ID: 490-21711-1

Client Sample ID: 1421 Albatross
Date Collected: 03/05/13 14:45
Date Received: 03/13/13 08:10

Lab Sample ID: 490-21711-4
Matrix: Solid
Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.489		0.128	0.0436	mg/Kg	☼	03/14/13 17:03	03/18/13 15:15	1
Ethylbenzene	5.50		0.128	0.0436	mg/Kg	☼	03/14/13 17:03	03/18/13 15:15	1
Naphthalene	53.5		6.42	2.18	mg/Kg	☼	03/14/13 17:03	03/18/13 15:42	20
Toluene	0.0602		0.00212	0.000783	mg/Kg	☼	03/14/13 17:05	03/15/13 19:21	1
Xylenes, Total	17.6		0.321	0.0436	mg/Kg	☼	03/14/13 17:03	03/18/13 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*149*	*X*	*70 - 130*	*03/14/13 17:05*	*03/15/13 19:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*03/14/13 17:03*	*03/18/13 15:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*03/14/13 17:03*	*03/18/13 15:42*	*20*
4-Bromofluorobenzene (Surr)	*4512*	*X*	*70 - 130*	*03/14/13 17:05*	*03/15/13 19:21*	*1*
4-Bromofluorobenzene (Surr)	*142*	*X*	*70 - 130*	*03/14/13 17:03*	*03/18/13 15:15*	*1*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*03/14/13 17:03*	*03/18/13 15:42*	*20*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/14/13 17:05*	*03/15/13 19:21*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*	*03/14/13 17:03*	*03/18/13 15:15*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*	*03/14/13 17:03*	*03/18/13 15:42*	*20*
Toluene-d8 (Surr)	*128*		*70 - 130*	*03/14/13 17:05*	*03/15/13 19:21*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/14/13 17:03*	*03/18/13 15:15*	*1*
Toluene-d8 (Surr)	*111*		*70 - 130*	*03/14/13 17:03*	*03/18/13 15:42*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.56		0.814	0.122	mg/Kg	☼	03/15/13 06:52	03/16/13 19:11	10
Acenaphthylene	ND		0.814	0.109	mg/Kg	☼	03/15/13 06:52	03/16/13 19:11	10
Anthracene	1.13		0.814	0.109	mg/Kg	☼	03/15/13 06:52	03/16/13 19:11	10
Benzo[a]anthracene	ND		0.814	0.182	mg/Kg	☼	03/15/13 06:52	03/16/13 19:11	10
Benzo[a]pyrene	ND		0.814	0.146	mg/Kg	☼	03/15/13 06:52	03/16/13 19:11	10
Benzo[b]fluoranthene	ND		0.814	0.146	mg/Kg	☼	03/15/13 06:52	03/16/13 19:11	10
Benzo[g,h,i]perylene	ND		0.814	0.109	mg/Kg	☼	03/15/13 06:52	03/16/13 19:11	10
Benzo[k]fluoranthene	ND		0.814	0.170	mg/Kg	☼	03/15/13 06:52	03/16/13 19:11	10
1-Methylnaphthalene	52.3		4.07	0.851	mg/Kg	☼	03/15/13 06:52	03/16/13 21:21	50
Pyrene	ND		0.814	0.146	mg/Kg	☼	03/15/13 06:52	03/16/13 19:11	10
Phenanthrene	10.6		0.814	0.109	mg/Kg	☼	03/15/13 06:52	03/16/13 19:11	10
Chrysene	ND		0.814	0.109	mg/Kg	☼	03/15/13 06:52	03/16/13 19:11	10
Dibenz(a,h)anthracene	ND		0.814	0.0851	mg/Kg	☼	03/15/13 06:52	03/16/13 19:11	10
Fluoranthene	0.439	J	0.814	0.109	mg/Kg	☼	03/15/13 06:52	03/16/13 19:11	10
Fluorene	5.27		0.814	0.146	mg/Kg	☼	03/15/13 06:52	03/16/13 19:11	10
Indeno[1,2,3-cd]pyrene	ND		0.814	0.122	mg/Kg	☼	03/15/13 06:52	03/16/13 19:11	10
Naphthalene	17.1		0.814	0.109	mg/Kg	☼	03/15/13 06:52	03/16/13 19:11	10
2-Methylnaphthalene	84.4		4.07	0.972	mg/Kg	☼	03/15/13 06:52	03/16/13 21:21	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*29 - 120*	*03/15/13 06:52*	*03/16/13 19:11*	*10*
Terphenyl-d14 (Surr)	*101*		*13 - 120*	*03/15/13 06:52*	*03/16/13 19:11*	*10*
Nitrobenzene-d5 (Surr)	*106*		*27 - 120*	*03/15/13 06:52*	*03/16/13 19:11*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81		0.10	0.10	%			03/15/13 08:19	1

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

TestAmerica Job ID: 490-21711-1

Client Sample ID: 715 Bluebell
Date Collected: 03/06/13 14:30
Date Received: 03/13/13 08:10

Lab Sample ID: 490-21711-5
Matrix: Solid
Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00254	0.000852	mg/Kg	☼	03/14/13 17:05	03/15/13 19:48	1
Ethylbenzene	ND		0.00254	0.000852	mg/Kg	☼	03/14/13 17:05	03/15/13 19:48	1
Naphthalene	ND		0.00613	0.00208	mg/Kg	☼	03/14/13 17:05	03/18/13 14:21	1
Toluene	ND		0.00254	0.000941	mg/Kg	☼	03/14/13 17:05	03/15/13 19:48	1
Xylenes, Total	0.00234	J	0.00636	0.000852	mg/Kg	☼	03/14/13 17:05	03/15/13 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*	*03/14/13 17:05*	*03/15/13 19:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*	*03/14/13 17:05*	*03/18/13 14:21*	*1*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*03/14/13 17:05*	*03/15/13 19:48*	*1*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*03/14/13 17:05*	*03/18/13 14:21*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*	*03/14/13 17:05*	*03/15/13 19:48*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*03/14/13 17:05*	*03/18/13 14:21*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*	*03/14/13 17:05*	*03/15/13 19:48*	*1*
Toluene-d8 (Surr)	*108*		*70 - 130*	*03/14/13 17:05*	*03/18/13 14:21*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0766	0.0114	mg/Kg	☼	03/15/13 06:52	03/15/13 19:50	1
Acenaphthylene	ND		0.0766	0.0103	mg/Kg	☼	03/15/13 06:52	03/15/13 19:50	1
Anthracene	ND		0.0766	0.0103	mg/Kg	☼	03/15/13 06:52	03/15/13 19:50	1
Benzo[a]anthracene	ND		0.0766	0.0172	mg/Kg	☼	03/15/13 06:52	03/15/13 19:50	1
Benzo[a]pyrene	0.0903		0.0766	0.0137	mg/Kg	☼	03/15/13 06:52	03/15/13 19:50	1
Benzo[b]fluoranthene	ND		0.0766	0.0137	mg/Kg	☼	03/15/13 06:52	03/15/13 19:50	1
Benzo[g,h,i]perylene	ND		0.0766	0.0103	mg/Kg	☼	03/15/13 06:52	03/15/13 19:50	1
Benzo[k]fluoranthene	ND		0.0766	0.0160	mg/Kg	☼	03/15/13 06:52	03/15/13 19:50	1
1-Methylnaphthalene	ND		0.0766	0.0160	mg/Kg	☼	03/15/13 06:52	03/15/13 19:50	1
Pyrene	ND		0.0766	0.0137	mg/Kg	☼	03/15/13 06:52	03/15/13 19:50	1
Phenanthrene	ND		0.0766	0.0103	mg/Kg	☼	03/15/13 06:52	03/15/13 19:50	1
Chrysene	ND		0.0766	0.0103	mg/Kg	☼	03/15/13 06:52	03/15/13 19:50	1
Dibenz(a,h)anthracene	ND		0.0766	0.00800	mg/Kg	☼	03/15/13 06:52	03/15/13 19:50	1
Fluoranthene	ND		0.0766	0.0103	mg/Kg	☼	03/15/13 06:52	03/15/13 19:50	1
Fluorene	ND		0.0766	0.0137	mg/Kg	☼	03/15/13 06:52	03/15/13 19:50	1
Indeno[1,2,3-cd]pyrene	ND		0.0766	0.0114	mg/Kg	☼	03/15/13 06:52	03/15/13 19:50	1
Naphthalene	ND		0.0766	0.0103	mg/Kg	☼	03/15/13 06:52	03/15/13 19:50	1
2-Methylnaphthalene	ND		0.0766	0.0183	mg/Kg	☼	03/15/13 06:52	03/15/13 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*75*		*29 - 120*	*03/15/13 06:52*	*03/15/13 19:50*	*1*
Terphenyl-d14 (Surr)	*90*		*13 - 120*	*03/15/13 06:52*	*03/15/13 19:50*	*1*
Nitrobenzene-d5 (Surr)	*65*		*27 - 120*	*03/15/13 06:52*	*03/15/13 19:50*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87		0.10	0.10	%			03/15/13 08:19	1

Client Sample ID: 1256 Dove

Date Collected: 03/07/13 15:00
Date Received: 03/13/13 08:10

Lab Sample ID: 490-21711-6

Matrix: Solid
Percent Solids: 87.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00262	0.000878	mg/Kg		03/14/13 17:05	03/15/13 20:15	1
Ethylbenzene	ND		0.00262	0.000878	mg/Kg		03/14/13 17:05	03/15/13 20:15	1
Naphthalene	0.00260	J	0.00656	0.00223	mg/Kg		03/14/13 17:05	03/15/13 20:15	1
Toluene	ND		0.00262	0.000970	mg/Kg		03/14/13 17:05	03/15/13 20:15	1
Xylenes, Total	ND		0.00656	0.000878	mg/Kg		03/14/13 17:05	03/15/13 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*	*03/14/13 17:05*	*03/15/13 20:15*	*1*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*03/14/13 17:05*	*03/15/13 20:15*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*	*03/14/13 17:05*	*03/15/13 20:15*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*	*03/14/13 17:05*	*03/15/13 20:15*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0746	0.0111	mg/Kg		03/15/13 06:52	03/15/13 20:11	1
Acenaphthylene	ND		0.0746	0.0100	mg/Kg		03/15/13 06:52	03/15/13 20:11	1
Anthracene	ND		0.0746	0.0100	mg/Kg		03/15/13 06:52	03/15/13 20:11	1
Benzo[a]anthracene	0.0786		0.0746	0.0167	mg/Kg		03/15/13 06:52	03/15/13 20:11	1
Benzo[a]pyrene	ND		0.0746	0.0134	mg/Kg		03/15/13 06:52	03/15/13 20:11	1
Benzo[b]fluoranthene	0.0575	J	0.0746	0.0134	mg/Kg		03/15/13 06:52	03/15/13 20:11	1
Benzo[g,h,i]perylene	ND		0.0746	0.0100	mg/Kg		03/15/13 06:52	03/15/13 20:11	1
Benzo[k]fluoranthene	ND		0.0746	0.0156	mg/Kg		03/15/13 06:52	03/15/13 20:11	1
1-Methylnaphthalene	ND		0.0746	0.0156	mg/Kg		03/15/13 06:52	03/15/13 20:11	1
Pyrene	0.116		0.0746	0.0134	mg/Kg		03/15/13 06:52	03/15/13 20:11	1
Phenanthrene	ND		0.0746	0.0100	mg/Kg		03/15/13 06:52	03/15/13 20:11	1
Chrysene	0.0742	J	0.0746	0.0100	mg/Kg		03/15/13 06:52	03/15/13 20:11	1
Dibenz(a,h)anthracene	ND		0.0746	0.00780	mg/Kg		03/15/13 06:52	03/15/13 20:11	1
Fluoranthene	0.150		0.0746	0.0100	mg/Kg		03/15/13 06:52	03/15/13 20:11	1
Fluorene	ND		0.0746	0.0134	mg/Kg		03/15/13 06:52	03/15/13 20:11	1
Indeno[1,2,3-cd]pyrene	ND		0.0746	0.0111	mg/Kg		03/15/13 06:52	03/15/13 20:11	1
Naphthalene	ND		0.0746	0.0100	mg/Kg		03/15/13 06:52	03/15/13 20:11	1
2-Methylnaphthalene	ND		0.0746	0.0178	mg/Kg		03/15/13 06:52	03/15/13 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*58*		*29 - 120*	*03/15/13 06:52*	*03/15/13 20:11*	*1*
Terphenyl-d14 (Surr)	*78*		*13 - 120*	*03/15/13 06:52*	*03/15/13 20:11*	*1*
Nitrobenzene-d5 (Surr)	*54*		*27 - 120*	*03/15/13 06:52*	*03/15/13 20:11*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88		0.10	0.10	%			03/15/13 08:19	1

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

Lab Sample ID: MB 490-65345/7
Matrix: Solid
Analysis Batch: 65345

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			03/15/13 15:14	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			03/15/13 15:14	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			03/15/13 15:14	1
Toluene	ND		0.00200	0.000740	mg/Kg			03/15/13 15:14	1
Xylenes, Total	ND		0.00500	0.000670	mg/Kg			03/15/13 15:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*03/15/13 15:14*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*03/15/13 15:14*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*03/15/13 15:14*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*03/15/13 15:14*	*1*

Lab Sample ID: LCS 490-65345/3
Matrix: Solid
Analysis Batch: 65345

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	0.04982		mg/Kg		100	75 - 127
Ethylbenzene	0.0500	0.04964		mg/Kg		99	80 - 134
Naphthalene	0.0500	0.05088		mg/Kg		102	69 - 150
Toluene	0.0500	0.05137		mg/Kg		103	80 - 132
Xylenes, Total	0.150	0.1505		mg/Kg		100	80 - 137

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*109*		*70 - 130*

Lab Sample ID: LCSD 490-65345/4
Matrix: Solid
Analysis Batch: 65345

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	0.04974		mg/Kg		99	75 - 127	0	50
Ethylbenzene	0.0500	0.04973		mg/Kg		99	80 - 134	0	50
Naphthalene	0.0500	0.05205		mg/Kg		104	69 - 150	2	50
Toluene	0.0500	0.05198		mg/Kg		104	80 - 132	1	50
Xylenes, Total	0.150	0.1508		mg/Kg		101	80 - 137	0	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*108*		*70 - 130*

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

Lab Sample ID: MB 490-65720/6
Matrix: Solid
Analysis Batch: 65720

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			03/18/13 13:26	1
Ethylbenzene	ND		0.100	0.0335	mg/Kg			03/18/13 13:26	1
Naphthalene	ND		0.250	0.0850	mg/Kg			03/18/13 13:26	1
Toluene	ND		0.100	0.0370	mg/Kg			03/18/13 13:26	1
Xylenes, Total	ND		0.250	0.0335	mg/Kg			03/18/13 13:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*03/18/13 13:26*	*1*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*03/18/13 13:26*	*1*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*03/18/13 13:26*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*03/18/13 13:26*	*1*

Lab Sample ID: MB 490-65720/7
Matrix: Solid
Analysis Batch: 65720

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			03/18/13 13:54	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			03/18/13 13:54	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			03/18/13 13:54	1
Toluene	ND		0.00200	0.000740	mg/Kg			03/18/13 13:54	1
Xylenes, Total	ND		0.00500	0.000670	mg/Kg			03/18/13 13:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*03/18/13 13:54*	*1*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*03/18/13 13:54*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*03/18/13 13:54*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*03/18/13 13:54*	*1*

Lab Sample ID: LCS 490-65720/3
Matrix: Solid
Analysis Batch: 65720

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	0.04816		mg/Kg		96	75 - 127
Ethylbenzene	0.0500	0.04890		mg/Kg		98	80 - 134
Naphthalene	0.0500	0.05301		mg/Kg		106	69 - 150
Toluene	0.0500	0.05058		mg/Kg		101	80 - 132
Xylenes, Total	0.150	0.1499		mg/Kg		100	80 - 137

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*106*		*70 - 130*

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

Lab Sample ID: LCSD 490-65720/4
Matrix: Solid
Analysis Batch: 65720

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	0.04740		mg/Kg		95	75 - 127	2	50
Ethylbenzene	0.0500	0.04718		mg/Kg		94	80 - 134	4	50
Naphthalene	0.0500	0.05208		mg/Kg		104	69 - 150	2	50
Toluene	0.0500	0.04912		mg/Kg		98	80 - 132	3	50
Xylenes, Total	0.150	0.1435		mg/Kg		96	80 - 137	4	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

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

Lab Sample ID: MB 490-65195/1-A
Matrix: Solid
Analysis Batch: 65455

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65195

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0100	mg/Kg		03/15/13 06:52	03/15/13 15:27	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		03/15/13 06:52	03/15/13 15:27	1
Anthracene	ND		0.0670	0.00900	mg/Kg		03/15/13 06:52	03/15/13 15:27	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		03/15/13 06:52	03/15/13 15:27	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		03/15/13 06:52	03/15/13 15:27	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		03/15/13 06:52	03/15/13 15:27	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		03/15/13 06:52	03/15/13 15:27	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		03/15/13 06:52	03/15/13 15:27	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		03/15/13 06:52	03/15/13 15:27	1
Pyrene	ND		0.0670	0.0120	mg/Kg		03/15/13 06:52	03/15/13 15:27	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		03/15/13 06:52	03/15/13 15:27	1
Chrysene	ND		0.0670	0.00900	mg/Kg		03/15/13 06:52	03/15/13 15:27	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		03/15/13 06:52	03/15/13 15:27	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg		03/15/13 06:52	03/15/13 15:27	1
Fluorene	ND		0.0670	0.0120	mg/Kg		03/15/13 06:52	03/15/13 15:27	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		03/15/13 06:52	03/15/13 15:27	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		03/15/13 06:52	03/15/13 15:27	1
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		03/15/13 06:52	03/15/13 15:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*56*		*29 - 120*	*03/15/13 06:52*	*03/15/13 15:27*	*1*
Terphenyl-d14 (Surr)	*76*		*13 - 120*	*03/15/13 06:52*	*03/15/13 15:27*	*1*
Nitrobenzene-d5 (Surr)	*50*		*27 - 120*	*03/15/13 06:52*	*03/15/13 15:27*	*1*

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

Lab Sample ID: LCS 490-65195/2-A
Matrix: Solid
Analysis Batch: 65455

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 65195

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	1.67	1.556		mg/Kg		93	38 - 120
Anthracene	1.67	1.528		mg/Kg		92	46 - 124
Benzo[a]anthracene	1.67	1.511		mg/Kg		91	45 - 120
Benzo[a]pyrene	1.67	1.546		mg/Kg		93	45 - 120
Benzo[b]fluoranthene	1.67	1.582		mg/Kg		95	42 - 120
Benzo[g,h,i]perylene	1.67	1.602		mg/Kg		96	38 - 120
Benzo[k]fluoranthene	1.67	1.469		mg/Kg		88	42 - 120
1-Methylnaphthalene	1.67	1.387		mg/Kg		83	32 - 120
Pyrene	1.67	1.510		mg/Kg		91	43 - 120
Phenanthrene	1.67	1.583		mg/Kg		95	45 - 120
Chrysene	1.67	1.482		mg/Kg		89	43 - 120
Dibenz(a,h)anthracene	1.67	1.626		mg/Kg		98	32 - 128
Fluoranthene	1.67	1.537		mg/Kg		92	46 - 120
Fluorene	1.67	1.534		mg/Kg		92	42 - 120
Indeno[1,2,3-cd]pyrene	1.67	1.603		mg/Kg		96	41 - 121
Naphthalene	1.67	1.391		mg/Kg		83	32 - 120
2-Methylnaphthalene	1.67	1.402		mg/Kg		84	28 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*77*		*29 - 120*
Terphenyl-d14 (Surr)	*92*		*13 - 120*
Nitrobenzene-d5 (Surr)	*60*		*27 - 120*

Lab Sample ID: 490-21695-A-4-B MS
Matrix: Solid
Analysis Batch: 65455

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 65195

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	ND		1.62	1.457		mg/Kg		90	25 - 120
Anthracene	ND		1.62	1.422		mg/Kg		88	28 - 125
Benzo[a]anthracene	ND		1.62	1.405		mg/Kg		87	23 - 120
Benzo[a]pyrene	ND		1.62	1.415		mg/Kg		87	15 - 128
Benzo[b]fluoranthene	ND		1.62	1.511		mg/Kg		93	12 - 133
Benzo[g,h,i]perylene	ND		1.62	1.392		mg/Kg		86	22 - 120
Benzo[k]fluoranthene	ND		1.62	1.335		mg/Kg		82	28 - 120
1-Methylnaphthalene	ND		1.62	1.304		mg/Kg		80	10 - 120
Pyrene	ND		1.62	1.378		mg/Kg		85	20 - 123
Phenanthrene	ND		1.62	1.487		mg/Kg		92	21 - 122
Chrysene	ND		1.62	1.381		mg/Kg		85	20 - 120
Dibenz(a,h)anthracene	ND		1.62	1.464		mg/Kg		90	12 - 128
Fluoranthene	ND		1.62	1.439		mg/Kg		89	10 - 143
Fluorene	ND		1.62	1.448		mg/Kg		89	20 - 120
Indeno[1,2,3-cd]pyrene	ND		1.62	1.421		mg/Kg		88	22 - 121
Naphthalene	ND		1.62	1.304		mg/Kg		80	10 - 120
2-Methylnaphthalene	ND		1.62	1.314		mg/Kg		81	13 - 120

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

Lab Sample ID: 490-21695-A-4-B MS
Matrix: Solid
Analysis Batch: 65455

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 65195

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl (Surr)	*75*		*29 - 120*
Terphenyl-d14 (Surr)	*88*		*13 - 120*
Nitrobenzene-d5 (Surr)	*58*		*27 - 120*

Lab Sample ID: 490-21695-A-4-C MSD
Matrix: Solid
Analysis Batch: 65455

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 65195

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthylene	ND		1.63	1.538		mg/Kg		95	25 - 120	5	50
Anthracene	ND		1.63	1.512		mg/Kg		93	28 - 125	6	49
Benzo[a]anthracene	ND		1.63	1.470		mg/Kg		90	23 - 120	5	50
Benzo[a]pyrene	ND		1.63	1.498		mg/Kg		92	15 - 128	6	50
Benzo[b]fluoranthene	ND		1.63	1.561		mg/Kg		96	12 - 133	3	50
Benzo[g,h,i]perylene	ND		1.63	1.455		mg/Kg		89	22 - 120	4	50
Benzo[k]fluoranthene	ND		1.63	1.471		mg/Kg		90	28 - 120	10	45
1-Methylnaphthalene	ND		1.63	1.368		mg/Kg		84	10 - 120	5	50
Pyrene	ND		1.63	1.435		mg/Kg		88	20 - 123	4	50
Phenanthrene	ND		1.63	1.580		mg/Kg		97	21 - 122	6	50
Chrysene	ND		1.63	1.463		mg/Kg		90	20 - 120	6	49
Dibenz(a,h)anthracene	ND		1.63	1.506		mg/Kg		93	12 - 128	3	50
Fluoranthene	ND		1.63	1.558		mg/Kg		96	10 - 143	8	50
Fluorene	ND		1.63	1.529		mg/Kg		94	20 - 120	5	50
Indeno[1,2,3-cd]pyrene	ND		1.63	1.483		mg/Kg		91	22 - 121	4	50
Naphthalene	ND		1.63	1.368		mg/Kg		84	10 - 120	5	50
2-Methylnaphthalene	ND		1.63	1.376		mg/Kg		85	13 - 120	5	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	*74*		*29 - 120*
Terphenyl-d14 (Surr)	*87*		*13 - 120*
Nitrobenzene-d5 (Surr)	*59*		*27 - 120*

Method: Moisture - Percent Moisture

Lab Sample ID: 490-21711-1 DU
Matrix: Solid
Analysis Batch: 65312

Client Sample ID: 1375 Dove
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	80		81		%		1	20

QC Association Summary

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

TestAmerica Job ID: 490-21711-1

GC/MS VOA

Prep Batch: 65243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-21711-4	1421 Albatross	Total/NA	Solid	5035	

Prep Batch: 65245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-21711-1	1375 Dove	Total/NA	Solid	5035	
490-21711-2	710 Bluebell	Total/NA	Solid	5035	
490-21711-3	643 Dahlia - a	Total/NA	Solid	5035	
490-21711-4	1421 Albatross	Total/NA	Solid	5035	
490-21711-5	715 Bluebell	Total/NA	Solid	5035	
490-21711-5	715 Bluebell	Total/NA	Solid	5035	
490-21711-6	1256 Dove	Total/NA	Solid	5035	

Analysis Batch: 65345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-21711-1	1375 Dove	Total/NA	Solid	8260B	65245
490-21711-2	710 Bluebell	Total/NA	Solid	8260B	65245
490-21711-3	643 Dahlia - a	Total/NA	Solid	8260B	65245
490-21711-4	1421 Albatross	Total/NA	Solid	8260B	65245
490-21711-5	715 Bluebell	Total/NA	Solid	8260B	65245
490-21711-6	1256 Dove	Total/NA	Solid	8260B	65245
LCS 490-65345/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-65345/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-65345/7	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 65720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-21711-4	1421 Albatross	Total/NA	Solid	8260B	65243
490-21711-4	1421 Albatross	Total/NA	Solid	8260B	65243
490-21711-5	715 Bluebell	Total/NA	Solid	8260B	65245
LCS 490-65720/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-65720/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-65720/6	Method Blank	Total/NA	Solid	8260B	
MB 490-65720/7	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 65195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-21695-A-4-B MS	Matrix Spike	Total/NA	Solid	3550C	
490-21695-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	
490-21711-1	1375 Dove	Total/NA	Solid	3550C	
490-21711-2	710 Bluebell	Total/NA	Solid	3550C	
490-21711-3	643 Dahlia - a	Total/NA	Solid	3550C	
490-21711-4	1421 Albatross	Total/NA	Solid	3550C	
490-21711-5	715 Bluebell	Total/NA	Solid	3550C	
490-21711-6	1256 Dove	Total/NA	Solid	3550C	
LCS 490-65195/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-65195/1-A	Method Blank	Total/NA	Solid	3550C	

GC/MS Semi VOA (Continued)

Analysis Batch: 65455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-21695-A-4-B MS	Matrix Spike	Total/NA	Solid	8270D	65195
490-21695-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8270D	65195
490-21711-1	1375 Dove	Total/NA	Solid	8270D	65195
490-21711-2	710 Bluebell	Total/NA	Solid	8270D	65195
490-21711-3	643 Dahlia - a	Total/NA	Solid	8270D	65195
490-21711-5	715 Bluebell	Total/NA	Solid	8270D	65195
490-21711-6	1256 Dove	Total/NA	Solid	8270D	65195
LCS 490-65195/2-A	Lab Control Sample	Total/NA	Solid	8270D	65195
MB 490-65195/1-A	Method Blank	Total/NA	Solid	8270D	65195

Analysis Batch: 65572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-21711-4	1421 Albatross	Total/NA	Solid	8270D	65195
490-21711-4	1421 Albatross	Total/NA	Solid	8270D	65195

General Chemistry

Analysis Batch: 65312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-21711-1	1375 Dove	Total/NA	Solid	Moisture	
490-21711-1 DU	1375 Dove	Total/NA	Solid	Moisture	
490-21711-2	710 Bluebell	Total/NA	Solid	Moisture	
490-21711-3	643 Dahlia - a	Total/NA	Solid	Moisture	
490-21711-4	1421 Albatross	Total/NA	Solid	Moisture	
490-21711-5	715 Bluebell	Total/NA	Solid	Moisture	
490-21711-6	1256 Dove	Total/NA	Solid	Moisture	

Lab Chronicle

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

TestAmerica Job ID: 490-21711-1

Client Sample ID: 1375 Dove

Lab Sample ID: 490-21711-1

Date Collected: 03/05/13 13:35
Matrix: Solid
Date Received: 03/13/13 08:10
Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			65245	03/14/13 17:05	ML	TAL NSH
Total/NA	Analysis	8260B		1	65345	03/15/13 17:59	MH	TAL NSH
Total/NA	Prep	3550C			65195	03/15/13 06:52	AK	TAL NSH
Total/NA	Analysis	8270D		1	65455	03/15/13 18:22	JS	TAL NSH
Total/NA	Analysis	Moisture		1	65312	03/15/13 08:19	RS	TAL NSH

Client Sample ID: 710 Bluebell

Lab Sample ID: 490-21711-2

Date Collected: 03/06/13 11:30
Matrix: Solid
Date Received: 03/13/13 08:10
Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			65245	03/14/13 17:05	ML	TAL NSH
Total/NA	Analysis	8260B		1	65345	03/15/13 18:26	MH	TAL NSH
Total/NA	Prep	3550C			65195	03/15/13 06:52	AK	TAL NSH
Total/NA	Analysis	8270D		1	65455	03/15/13 18:44	JS	TAL NSH
Total/NA	Analysis	Moisture		1	65312	03/15/13 08:19	RS	TAL NSH

Client Sample ID: 643 Dahlia - a

Lab Sample ID: 490-21711-3

Date Collected: 03/07/13 14:05
Matrix: Solid
Date Received: 03/13/13 08:10
Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			65245	03/14/13 17:05	ML	TAL NSH
Total/NA	Analysis	8260B		1	65345	03/15/13 18:54	MH	TAL NSH
Total/NA	Prep	3550C			65195	03/15/13 06:52	AK	TAL NSH
Total/NA	Analysis	8270D		1	65455	03/15/13 19:28	JS	TAL NSH
Total/NA	Analysis	Moisture		1	65312	03/15/13 08:19	RS	TAL NSH

Client Sample ID: 1421 Albatross

Lab Sample ID: 490-21711-4

Date Collected: 03/05/13 14:45
Matrix: Solid
Date Received: 03/13/13 08:10
Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			65245	03/14/13 17:05	ML	TAL NSH
Total/NA	Analysis	8260B		1	65345	03/15/13 19:21	MH	TAL NSH
Total/NA	Prep	5035			65243	03/14/13 17:03	ML	TAL NSH
Total/NA	Analysis	8260B		1	65720	03/18/13 15:15	MH	TAL NSH
Total/NA	Analysis	8260B		20	65720	03/18/13 15:42	MH	TAL NSH
Total/NA	Prep	3550C			65195	03/15/13 06:52	AK	TAL NSH
Total/NA	Analysis	8270D		10	65572	03/16/13 19:11	JS	TAL NSH
Total/NA	Analysis	8270D		50	65572	03/16/13 21:21	JS	TAL NSH
Total/NA	Analysis	Moisture		1	65312	03/15/13 08:19	RS	TAL NSH

Lab Chronicle

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

TestAmerica Job ID: 490-21711-1

Client Sample ID: 715 Bluebell

Date Collected: 03/06/13 14:30
Date Received: 03/13/13 08:10

Lab Sample ID: 490-21711-5
Matrix: Solid
Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			65245	03/14/13 17:05	ML	TAL NSH
Total/NA	Analysis	8260B		1	65345	03/15/13 19:48	MH	TAL NSH
Total/NA	Prep	5035			65245	03/14/13 17:05	ML	TAL NSH
Total/NA	Analysis	8260B		1	65720	03/18/13 14:21	MH	TAL NSH
Total/NA	Prep	3550C			65195	03/15/13 06:52	AK	TAL NSH
Total/NA	Analysis	8270D		1	65455	03/15/13 19:50	JS	TAL NSH
Total/NA	Analysis	Moisture		1	65312	03/15/13 08:19	RS	TAL NSH

Client Sample ID: 1256 Dove

Date Collected: 03/07/13 15:00
Date Received: 03/13/13 08:10

Lab Sample ID: 490-21711-6
Matrix: Solid
Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			65245	03/14/13 17:05	ML	TAL NSH
Total/NA	Analysis	8260B		1	65345	03/15/13 20:15	MH	TAL NSH
Total/NA	Prep	3550C			65195	03/15/13 06:52	AK	TAL NSH
Total/NA	Analysis	8270D		1	65455	03/15/13 20:11	JS	TAL NSH
Total/NA	Analysis	Moisture		1	65312	03/15/13 08:19	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: 490-21711-1

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: 490-21711-1

Laboratory: TestAmerica Nashville

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Charleston


490-21711 Chain of Custody

Cooler Received/Opened On 3/13/2013 @ 0810

1. Tracking # 9674 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 18290455

2. Temperature of rep. sample or temp blank when opened: 2.3 *Degrees Celsius*

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

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

If yes, how many and where: 1 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 (intial) _____

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 - Soils

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 (intial) _____

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 (intial) _____

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 (intial) _____

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

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

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 11/28/12

Pg 1 of 2

3/27/2013

TestAmerica
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?

Compliance Monitoring? Yes ____ No ____

Enforcement Action? Yes ____ No ____

Client Name/Account #: EEG # 2449

Address: 10179 Highway 78

City/State/Zip: Ladson, SC 29456

Site State: SC

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

PO#: 1035

Telephone Number: 843.412.2097 Fax No.: 843-879-0401

TA Quote #:

Sampler Name: (Print) Chris Tunstall

Project ID: Laurel Bay Housing Project

Sampler Signature:

Project #:

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO_3 (Red Label)	HCl (Blue Label) Sodium Bisulfate	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass (Yellow Label)	None (Black Label)	Other (Specify) Methanol	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: BTEX + Napth - 8260B	PAH - 8270D	RUSH TAT (Pre-Schedule)	Standard TAT	Fax Results	Page 2 of 2 with report
1375 Dova	3/5/13	1335	5	X					2				X	1					X		X	X				
710 Bluebell	3/6/13	1130	5	X					2				2	1					X		X	X				
643 Dahlia - a	3/7/13	1405	5	X					2				2	1					X		X	X				

Loc: 490
21711

Special Instructions:

Method of Shipment: FEDEX

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

Relinquished by:	Date	Time	Received by:	Date	Time
	3/12/13	0900	Fedex		
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
			2.3 TAN	3-13-13	08:10

PS 2 of 2

3/27/2013

TestAmerica
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?

Compliance Monitoring? Yes ____ No ____

Enforcement Action? Yes ____ No ____

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

Site State: SC
PO#: 1035
TA Quote #:
Project ID: Laurel Bay Housing Project
Project #:

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO_3 (Red Label)	HCl (Blue Label) Sodium Bisulfate	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass(Yellow Label)	None (Black Label)	Other (Specify) Methanol	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: BTEX + Napth - 8260	PAH - 8270D	RUSH TAT (Pre-Schedule)	Standard TAT	Fax Results
1421 Albatross	3/5/13	1445	5	X					2				2	1					X		X	X			
715 Bluebell	3/6/13	1430	5	X					2				2	1					X		X	X			
1256 Dove	3/7/13	1500	5	X					2				2	1					X		X	X			

Loc: 490
21711

Page 26 of 26 with report

Special Instructions:

Method of Shipment: FEDEX

Relinquished by:	Date	Time	Received by:	Date	Time
	3/12/13	0900	Fedex		
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
			23 TAN	3-13-13	08:10

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

Login Sample Receipt Checklist

Client: Environmental Enterprise Group

Job Number: 490-21711-1

Login Number: 21711
List Number: 1
Creator: Ford, Easton

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ATTACHMENT A

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

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

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
MCAS BEAUFORT LAUREL BAY HOUSING BEAUFORT, SC 29904 **4. Generator's Phone** 843-879-0411		WMNA	01519114
		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
Small business group 10179 Hwy 78 Ladson SC 29456		D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID
HICKORY HILL LANDFILL 2621 LOW COUNTRY DRIVE RIDGELAND, SC 29936		H. State Facility Phone 843-987-4643

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. HEATING OIL TANK FILLED WITH SAND WM Profile # 102655SC	1	20Y	2.44	TON	706081
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information
UST's from: 2) 715 Bluebell 4) 1256 Dover 6) 581 Aston
1) 1375 Dover 3) 710 Bluebell 5) 582 Aston

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
W.C. Dukes		4	16	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year
Prath Shaw		4	16	13
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year
JAMES BALDWIN	James Baldwin	4	17	13

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
Tom Cofield	Tom Cofield	4	17	13

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

Appendix C
Regulatory Correspondence

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

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: No Further Action
Laurel Bay Underground Storage Tank Assessment Reports for:
See attached sheet

Dear Mr. Drawdy,

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

The Department has reviewed the referenced assessment reports and agrees there is no indication of soil or groundwater contamination on these properties, and therefore no further investigation is required at this time.

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

If you have any questions, please contact me at kriegkm@dhec.sc.gov 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
Promoting and protecting the health of the public and the environment

Attachment to: Krieg to Drawdy
Subject: NFA
Dated 5/15/2014

Laurel Bay Underground Storage Tank Assessment Reports for: (143 addresses/146 tanks)

212 Balsam	503 Laurel Bay
219 Balsam	508 Laurel Bay
260 Beech Tank 1	510 Laurel Bay
260 Beech Tank 2	523 Laurel Bay
267 Birch	525 Laurel Bay
287 Birch	529 Laurel Bay
302 Ash	533 Laurel Bay
305 Ash	537 Laurel Bay
334 Ash	556 Dahlia
338 Ash Tank 1	557 Dahlia
338 Ash Tank 2	559 Dahlia
361 Aspen	562 Dahlia
371 Aspen	568 Dahlia
372 Aspen Tank 1	581 Aster
372 Aspen Tank 2	582 Aster
375 Aspen	584 Aster
385 Aspen	602 Dahlia
403 Elderberry	607 Dahlia
407 Elderberry	614 Dahlia
411 Elderberry	616 Dahlia
414 Elderberry	619 Dahlia
415 Elderberry	625 Dahlia
421 Elderberry	629 Dahlia
427 Elderberry	631 Dahlia
428 Elderberry	634 Dahlia
431 Elderberry	660 Camellia
455 Elderberry	661 Camellia
484 Laurel Bay	666 Camellia
490 Laurel Bay	669 Camellia
502 Laurel Bay	672 Camellia

Laurel Bay Underground Storage Tank Assessment Reports for: (143 addresses/146 tanks) cont.

674 Camellia	880 Cobia
677 Camellia	890 Cobia
679 Camellia	892 Cobia
686 Camellia	900 Barracuda
690 Camellia	906 Barracuda
698 Abelia	911 Barracuda
700 Bluebell	912 Barracuda
704 Bluebell	917 Barracuda
705 Bluebell	919 Barracuda
708 Bluebell	928 Albacore
710 Bluebell	1024 Foxglove
711 Bluebell	1028 Foxglove
714 Bluebell	1029 Foxglove
715 Bluebell	1038 Iris
726 Bluebell	1049 Gardenia
728 Bluebell	1079 Heather
731 Bluebell	1103 Iris
734 Bluebell	1122 Iris
759 Althea	1136 Iris
761 Althea	1173 Bobwhite
773 Althea	1200 Cardinal
778 Laurel Bay	1221 Cardinal
807 Azalea	1238 Dove
814 Azalea	1241 Dove
815 Azalea	1242 Dove
818 Azalea	1248 Dove
820 Azalea	1262 Dove
821 Azalea	1265 Dove
831 Azalea	1267 Dove
832 Azalea	1289 Eagle
834 Azalea	1298 Eagle
835 Azalea	1300 Eagle
841 Azalea	1303 Eagle
853 Dolphin	1304 Eagle
858 Dolphin	1315 Albatross
869 Cobia	1316 Albatross
874 Cobia	1320 Albatross
875 Cobia	1338 Albatross

1340 Albatross	
1342 Albatross	
1344 Cardinal	
1345 Cardinal	
1349 Cardinal	
1355 Cardinal	
1366 Cardinal	
1374 Dove	
1375 Dove	
1415 Albatross	