SUMMARY REPORT
134 BIRCH ROAD (FORMERLY 279 BIRCH ROAD)
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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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 134 Birch Road (Formerly 279 Birch Road). 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 134 Birch Road (Formerly 279 Birch Road). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 279 Birch Road* (MCAS Beaufort, 2009). The UST Assessment Report is provided in Appendix B. Details regarding the IGWA sampling activities at this site are provided in the *Initial Groundwater Investigation Report – February and March 2017* (Resolution Consultants, 2017). The laboratory report that includes the pertinent IGWA analytical results for this site is presented in Appendix C.

2.1 UST Removal and Soil Sampling

On April 9, 2009, a single 280 gallon heating oil UST was removed from the front landscaped bed area adjacent to the driveway at 134 Birch Road (Formerly 279 Birch Road). The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). The UST was removed, cleaned, and shipped offsite for recycling. There was no visual evidence

(i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of the UST was 5'10" bgs and a single soil sample was collected from that depth. The sample was collected from the fill port side of the former UST to represent a worst case scenario.

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

2.2 Soil Analytical Results

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

The soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form (Appendix B). The results of the soil sampling at the former UST location were used by MCAS Beaufort, in consultation with SCDHEC, to determine a path forward (i.e., additional sampling or NFA) for the property. The soil results collected from 134 Birch Road (Formerly 279 Birch Road) were greater than the SCDHEC RBSLs, which indicated further investigation was required. In a letter dated December 14, 2016, SCDHEC requested an IGWA for 134 Birch Road (Formerly 279 Birch Road) to determine if the groundwater was impacted by petroleum COPCs. SCDHEC's request letter is provided in Appendix D.

2.3 Groundwater Sampling

On March 3, 2017, a temporary monitoring well was installed at 134 Birch Road (Formerly 279 Birch Road), in accordance with the South Carolina Well Standards and Regulations (R.61-71.H-I, updated June 24, 2016). In order to provide data that can be used to determine whether COPCs are migrating to underlying groundwater, the monitoring well was placed in the same general location as the former heating oil UST. The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). Further details are provided in the *Initial Groundwater Investigation Report – February and March 2017* (Resolution Consultants, 2017).

The sampling strategy for this phase of the investigation required a one-time sampling event of the temporarily installed monitoring well. Following well installation and development, groundwater samples were collected using low-flow methods and shipped to an offsite laboratory for analysis of the petroleum COPCs. Upon completion of groundwater sampling, the temporary well was abandoned in accordance with the South Carolina Well Standards and Regulations R.61-71 (SCDHEC, 2016). Field forms are provided in the *Initial Groundwater Investigation Report – February and March 2017* (Resolution Consultants, 2017).

2.4 Groundwater Analytical Results

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

The groundwater results collected from 134 Birch Road (Formerly 279 Birch Road) were less than the SCDHEC RBSLs and the site specific groundwater VISLs (Table 2), which indicated that the groundwater was not impacted by COPCs associated with the former UST at concentrations that present a potential risk to human health and the environment.

3.0 PROPERTY STATUS

Based on the analytical results for groundwater, SCDHEC made the determination that NFA was required for 134 Birch Road (Formerly 279 Birch Road). This NFA determination was obtained in a letter dated July 27, 2017. SCDHEC's NFA letter is provided in Appendix D.

4.0 REFERENCES

Marine Corps Air Station Beaufort, 2009. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 279 Birch Road, Laurel Bay Military Housing Area*, April 2009.

Resolution Consultants, 2017. *Initial Groundwater Investigation Report – February and March 2017 for Laurel Bay Military Housing Area, Multiple Properties, Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort, Beaufort, South Carolina*, June 2017.

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
134 Birch Road (Formerly 279 Birch Road)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs [1]	Results Sample Collected 04/09/09
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)		
Benzene	0.003	ND
Ethylbenzene	1.15	**0.0125**
Naphthalene	0.036	**0.188**
Toluene	0.627	**0.00370**
Xylenes, Total	13.01	ND
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (mg/kg)		
Benzo(a)anthracene	0.66	ND
Benzo(b)fluoranthene	0.66	ND
Benzo(k)fluoranthene	0.66	ND
Chrysene	0.66	ND
Dibenz(a,h)anthracene	0.66	ND

Notes:

[1] South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 3.0 and 3.1 (SCDHEC, May 2015 and SCDHEC, February 2016) and the Underground Storage Tank Assessment Guidelines (SCDHEC, February 2006).

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

mg/kg - milligrams per kilogram

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

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

Table 2
Laboratory Analytical Results - Groundwater
134 Birch Road (Formerly 279 Birch Road)
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 03/03/17
Volatile Organic Compounds Analyzed by EPA Method 8260B (µg/L)			
Benzene	5	16.24	ND
Ethylbenzene	700	45.95	ND
Naphthalene	25	29.33	**9.4**
Toluene	1000	105,445	ND
Xylenes, Total	10,000	2,133	ND
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (µg/L)			
Benzo(a)anthracene	10	NA	**0.24**
Benzo(b)fluoranthene	10	NA	ND
Benzo(k)fluoranthene	10	NA	ND
Chrysene	10	NA	**0.18**
Dibenz(a,h)anthracene	10	NA	ND

Notes:

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

[2] Site-specific groundwater VISLs were calculated using the EPA JE Model Spreadsheets (Version 3.1, February 2004) and conservative modeling inputs representative of a small single-story house with an 8 foot ceiling. Site-specific groundwater VISLs were developed based on a target risk level of $1x10^{-6}$, a target hazard quotient of 1 (per target organ), and a default residential exposure scenario, assuming exposure for 24 hours/day, 350 days/year, for 26 years. Modeling was performed for a range of depths to groundwater for application as appropriate in different areas of the Laurel Bay Military Housing Area. The most conservative levels are presented for comparison. Refer to Appendix H of the Uniform Federal Policy Sampling Analysis and Sampling Plan for Vapor Media, Revision 4 (Resolution Consultants, April 2017) for additional information.

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

JE - Johnson & Ettinger

NA - Not Applicable

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

RBSL - Risk-Based Screening Level

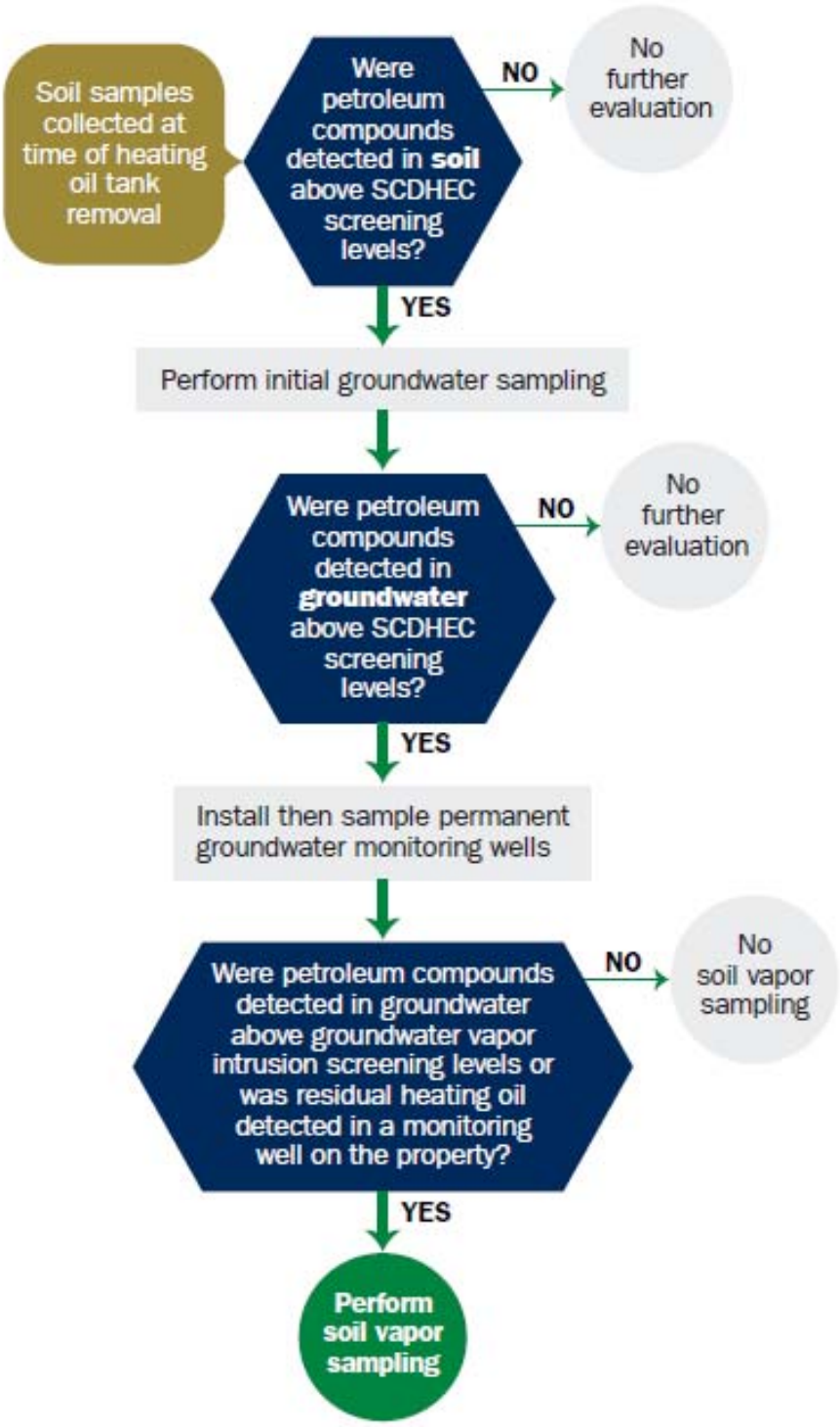
SCDHEC - South Carolina Department Of Health and Environmental Control

µg/L - micrograms per liter

VISL - Vapor Intrusion Screening Level

Appendix A
Multi-Media Selection Process for LBMH

CDM - AECOM
Multimedia Joint Venture



Appendix A - Multi-Media Selection Process for LBMH

Appendix B
UST Assessment 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	
279 Birch Dr., 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).....	279Birch				
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 1980s				
G.	Spill Prevention Equipment Y/N.....	5'10"				
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.....	4/9/09				
L.	Visible Holes Y/N.....	Yes				
		Yes				

M. Method of disposal for any USTs removed from the ground (attach disposal manifests)
UST 279Birch was removed from the ground, cleaned and recycled. See Attachment "A."

N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests)
Fluid was pumped from the tank and disposed of 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 on the entire surface.

VII. PIPING INFORMATION

	279Birch				
A. Construction Material..(ex. Steel, FRP).....	Steel /Copper				
B. Distance from UST to Dispenser.....	N/A				
C. Number of Dispensers.....	N/A				
D. Type of System Pressure or Suction.....	Suction				
E. Was Piping Removed from the Ground? Y/N	Yes*				
F. Visible Corrosion or Pitting Y/N.....	Yes				
G. Visible Holes Y/N.....	No				
H. Age.....	Early 1950s				

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 pipe.

*Steel vent pipe was cut and capped at edge of the excavation. Copper supply & return piping was previously removed by others.

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? *Very mild odor came from excavation. 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 96012001

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
279Birch	Excav at fill end	Soil	Sandy clay	5'10"	4/9/09 1420 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 and water. 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)

279 BIRCH DR.

0 175 350 700 1,050 1,400 Feet

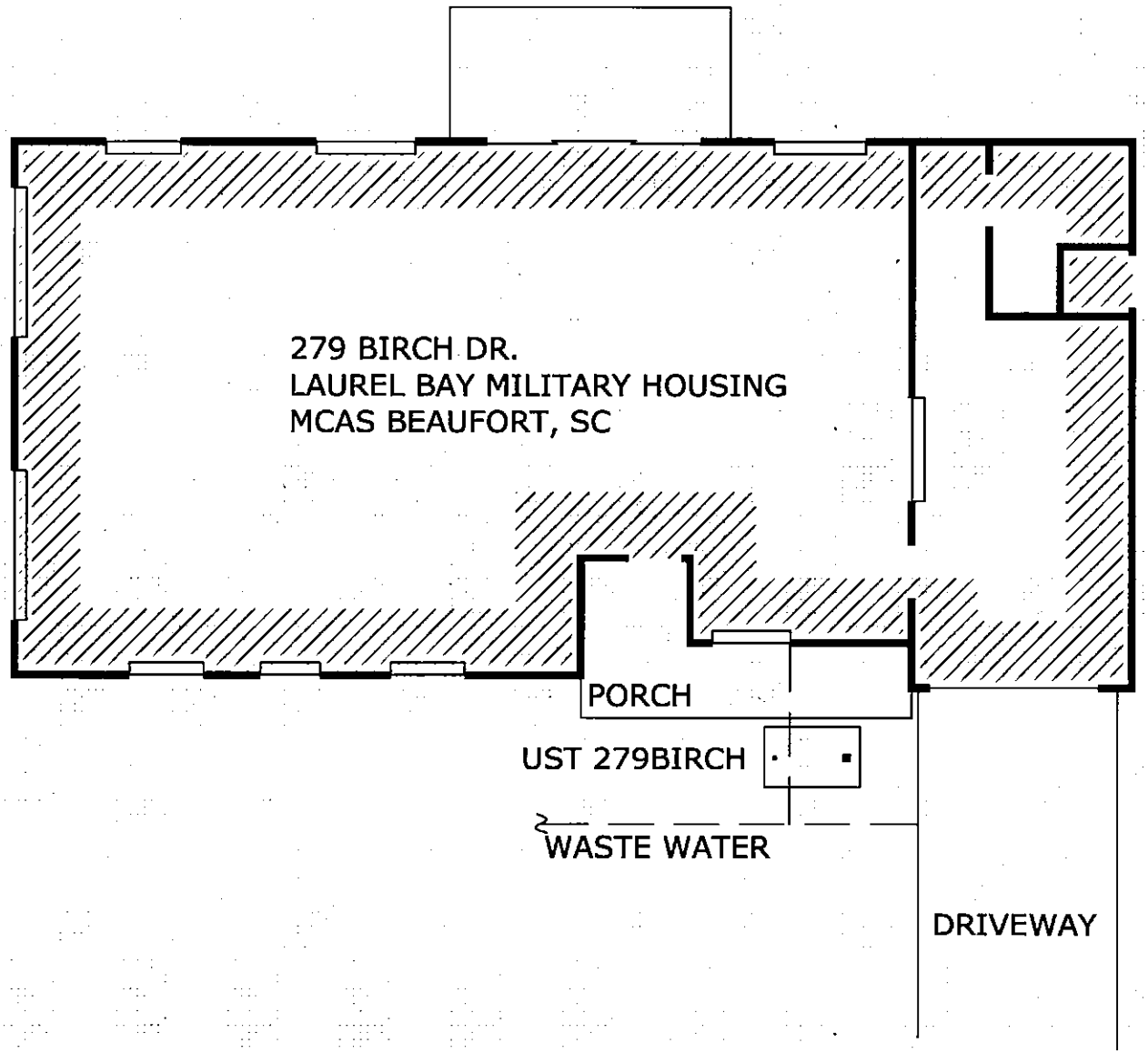
SBG-EEG, Inc.
Small Business Group, Inc.
10179 Hwy 78
Ladson, SC 29456

Ph. (843) 879-0400

Drawn By: L. DiAsio

Dwg Date: Apr 2009

FIGURE 1: LOCATION MAP
279 BIRCH DR., LAUREL BAY
MCAS BEAUFORT SC



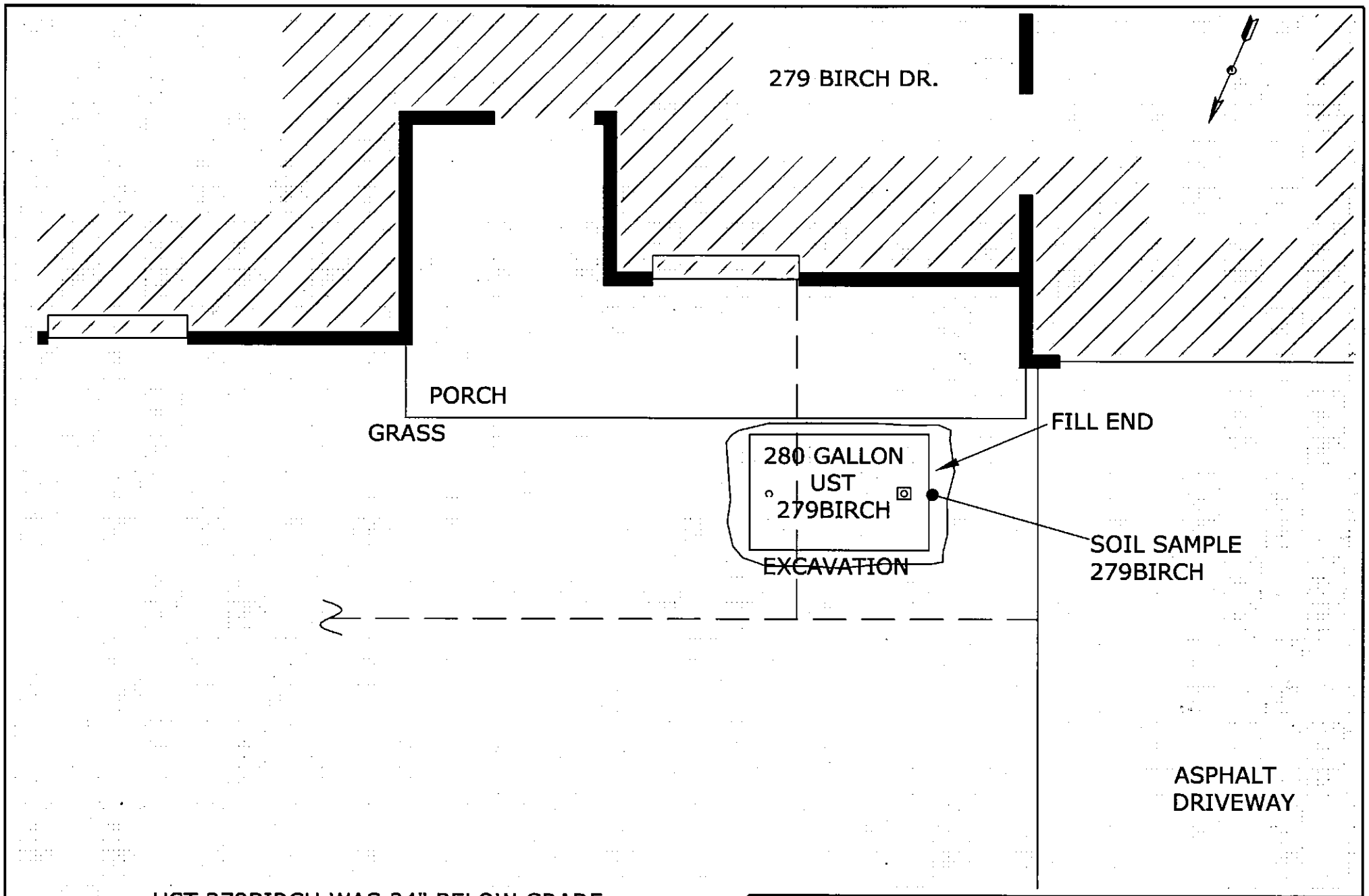
GRAPHIC SCALE

0 5' 10' 20'

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

FIGURE 2 SITE MAP
279 BIRCH DR., LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC | DWG DATE APR 2009



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

FIGURE 3 UST SAMPLE LOCATIONS
279 BIRCH DR., LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC | DWG DATE APR 2009

Picture 1: UST 279Birch excavation site prior to removal.

Picture 2: UST 279Birch immediately after removal from 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	279Birch						
Benzene	ND						
Toluene	0.00370 mg/kg						
Ethylbenzene	0.0125 mg/kg						
Xylenes	ND						
Naphthalene	0.188 mg/kg						
Benzo (a) anthracene	ND						
Benzo (b) fluoranthene	ND						
Benzo (k) fluoranthene	ND						
Chrysene	ND						
Dibenz (a, h) anthracene	ND						
TPH (EPA 3550)							

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

SUMMARY OF ANALYSIS RESULTS (cont'd)

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

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

XV. ANALYTICAL RESULTS

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

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

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

April 24, 2009 12:33:16PM

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

Work Order: NSD0949
Project Name: Laurel Bay Housing Project
Project Nbr: [none]
P/O Nbr: 0829
Date Received: 04/10/09

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
268 Beech	NSD0949-01	04/06/09 13:45
255 Beech-1	NSD0949-02	04/07/09 10:40
255 Beech-2	NSD0949-03	04/07/09 14:45
279 Birch	NSD0949-04	04/09/09 14:20

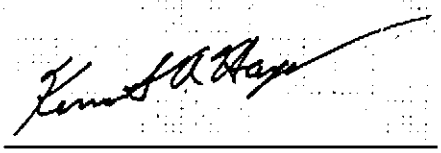
An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed,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

South Carolina Certification Number: 84009001

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

All solids results are reported in wet weight unless specifically stated.
Estimated uncertainty is available upon request.
This report has been electronically signed.
Report Approved By:



Ken A. Hayes

Senior Project Manager

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

Client	EEG - Env. Enterprise Group (2449)	Work Order:	NSD0949
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/10/09 08:10

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSD0949-01 (268 Beech - Soil) Sampled: 04/06/09 13:45								
General Chemistry Parameters								
% Dry Solids	**78.0**		%	0.500	1	04/16/09 08:12	SW-846	9042321
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg dry	0.00205	1	04/20/09 15:32	SW846 8260B	9043056
Ethylbenzene	**0.169**		mg/kg dry	0.00205	1	04/20/09 15:32	SW846 8260B	9043056
Naphthalene	**3.97**	H2	mg/kg dry	0.283	50	04/21/09 18:39	SW846 8260B	9043200
Toluene	**0.00617**		mg/kg dry	0.00205	1	04/20/09 15:32	SW846 8260B	9043056
Xylenes, total	**0.665**		mg/kg dry	0.00513	1	04/20/09 15:32	SW846 8260B	9043056
Surr: 1,2-Dichloroethane-d4 (41-150%)	*99 %*					*04/20/09 15:32*	*SW846 8260B*	*9043056*
Surr: 1,2-Dichloroethane-d4 (41-150%)	*124 %*					*04/21/09 18:39*	*SW846 8260B*	*9043200*
Surr: Dibromofluoromethane (55-139%)	*102 %*					*04/20/09 15:32*	*SW846 8260B*	*9043056*
Surr: Dibromofluoromethane (55-139%)	*98 %*					*04/21/09 18:39*	*SW846 8260B*	*9043200*
Surr: Toluene-d8 (57-148%)	*111 %*					*04/20/09 15:32*	*SW846 8260B*	*9043056*
Surr: Toluene-d8 (57-148%)	*97 %*					*04/21/09 18:39*	*SW846 8260B*	*9043200*
Surr: 4-Bromofluorobenzene (58-150%)	*122 %*					*04/20/09 15:32*	*SW846 8260B*	*9043056*
Surr: 4-Bromofluorobenzene (58-150%)	*118 %*					*04/21/09 18:39*	*SW846 8260B*	*9043200*
Polyaromatic Hydrocarbons by EPA 8270D								
Acenaphthene	ND		mg/kg dry	0.0842	1	04/15/09 15:38	SW846 8270D	9041798
Acenaphthylene	ND		mg/kg dry	0.0842	1	04/15/09 15:38	SW846 8270D	9041798
Anthracene	ND		mg/kg dry	0.0842	1	04/15/09 15:38	SW846 8270D	9041798
Benzo (a) anthracene	ND		mg/kg dry	0.0842	1	04/15/09 15:38	SW846 8270D	9041798
Benzo (a) pyrene	ND		mg/kg dry	0.0842	1	04/15/09 15:38	SW846 8270D	9041798
Benzo (b) fluoranthene	ND		mg/kg dry	0.0842	1	04/15/09 15:38	SW846 8270D	9041798
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0842	1	04/15/09 15:38	SW846 8270D	9041798
Benzo (k) fluoranthene	ND		mg/kg dry	0.0842	1	04/15/09 15:38	SW846 8270D	9041798
Chrysene	ND		mg/kg dry	0.0842	1	04/15/09 15:38	SW846 8270D	9041798
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0842	1	04/15/09 15:38	SW846 8270D	9041798
Fluoranthene	ND		mg/kg dry	0.0842	1	04/15/09 15:38	SW846 8270D	9041798
Fluorene	**0.633**		mg/kg dry	0.0842	1	04/15/09 15:38	SW846 8270D	9041798
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0842	1	04/15/09 15:38	SW846 8270D	9041798
Naphthalene	**0.393**		mg/kg dry	0.0842	1	04/15/09 15:38	SW846 8270D	9041798
Phenanthrene	**1.25**		mg/kg dry	0.0842	1	04/15/09 15:38	SW846 8270D	9041798
Pyrene	ND		mg/kg dry	0.0842	1	04/15/09 15:38	SW846 8270D	9041798
1-Methylnaphthalene	**2.40**		mg/kg dry	0.0842	1	04/15/09 15:38	SW846 8270D	9041798
2-Methylnaphthalene	**3.32**		mg/kg dry	0.0842	1	04/15/09 15:38	SW846 8270D	9041798
Surr: Terphenyl-d14 (26-128%)	*64 %*					*04/15/09 15:38*	*SW846 8270D*	*9041798*
Surr: 2-Fluorobiphenyl (19-109%)	*65 %*					*04/15/09 15:38*	*SW846 8270D*	*9041798*
Surr: Nitrobenzene-d5 (22-104%)	*69 %*					*04/15/09 15:38*	*SW846 8270D*	*9041798*

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Client	EEG - Env. Enterprise Group (2449)	Work Order:	NSD0949
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/10/09 08:10

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSD0949-02 (255 Beech-1 - Soil) Sampled: 04/07/09 10:40								
General Chemistry Parameters								
% Dry Solids	81.6		%	0.500	1	04/16/09 08:12	SW-846	9042321
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg dry	0.00199	1	04/20/09 16:02	SW846 8260B	9043056
Ethylbenzene	ND		mg/kg dry	0.00199	1	04/20/09 16:02	SW846 8260B	9043056
Naphthalene	**0.0115**		mg/kg dry	0.00500	1	04/21/09 18:08	SW846 8260B	9043200
Toluene	**0.00529**		mg/kg dry	0.00199	1	04/20/09 16:02	SW846 8260B	9043056
Xylenes, total	ND		mg/kg dry	0.00498	1	04/20/09 16:02	SW846 8260B	9043056
Surr: 1,2-Dichloroethane-d4 (41-150%)	*94 %*					*04/20/09 16:02*	*SW846 8260B*	*9043056*
Surr: 1,2-Dichloroethane-d4 (41-150%)	*131 %*					*04/21/09 18:08*	*SW846 8260B*	*9043200*
Surr: Dibromofluoromethane (55-139%)	*99 %*					*04/20/09 16:02*	*SW846 8260B*	*9043056*
Surr: Dibromofluoromethane (55-139%)	*103 %*					*04/21/09 18:08*	*SW846 8260B*	*9043200*
Surr: Toluene-d8 (57-148%)	*98 %*					*04/20/09 16:02*	*SW846 8260B*	*9043056*
Surr: Toluene-d8 (57-148%)	*99 %*					*04/21/09 18:08*	*SW846 8260B*	*9043200*
Surr: 4-Bromofluorobenzene (58-150%)	*103 %*					*04/20/09 16:02*	*SW846 8260B*	*9043056*
Surr: 4-Bromofluorobenzene (58-150%)	*147 %*					*04/21/09 18:08*	*SW846 8260B*	*9043200*
Polyaromatic Hydrocarbons by EPA 8270D								
Acenaphthene	ND		mg/kg dry	0.0808	1	04/15/09 16:00	SW846 8270D	9041798
Acenaphthylene	ND		mg/kg dry	0.0808	1	04/15/09 16:00	SW846 8270D	9041798
Anthracene	ND		mg/kg dry	0.0808	1	04/15/09 16:00	SW846 8270D	9041798
Benzo (a) anthracene	ND		mg/kg dry	0.0808	1	04/15/09 16:00	SW846 8270D	9041798
Benzo (a) pyrene	ND		mg/kg dry	0.0808	1	04/15/09 16:00	SW846 8270D	9041798
Benzo (b) fluoranthene	ND		mg/kg dry	0.0808	1	04/15/09 16:00	SW846 8270D	9041798
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0808	1	04/15/09 16:00	SW846 8270D	9041798
Benzo (k) fluoranthene	ND		mg/kg dry	0.0808	1	04/15/09 16:00	SW846 8270D	9041798
Chrysene	ND		mg/kg dry	0.0808	1	04/15/09 16:00	SW846 8270D	9041798
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0808	1	04/15/09 16:00	SW846 8270D	9041798
Fluoranthene	ND		mg/kg dry	0.0808	1	04/15/09 16:00	SW846 8270D	9041798
Fluorene	ND		mg/kg dry	0.0808	1	04/15/09 16:00	SW846 8270D	9041798
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0808	1	04/15/09 16:00	SW846 8270D	9041798
Naphthalene	ND		mg/kg dry	0.0808	1	04/15/09 16:00	SW846 8270D	9041798
Phenanthrene	ND		mg/kg dry	0.0808	1	04/15/09 16:00	SW846 8270D	9041798
Pyrene	ND		mg/kg dry	0.0808	1	04/15/09 16:00	SW846 8270D	9041798
1-Methylnaphthalene	ND		mg/kg dry	0.0808	1	04/15/09 16:00	SW846 8270D	9041798
2-Methylnaphthalene	ND		mg/kg dry	0.0808	1	04/15/09 16:00	SW846 8270D	9041798
Surr: Terphenyl-d14 (26-128%)	*45 %*					*04/15/09 16:00*	*SW846 8270D*	*9041798*
Surr: 2-Fluorobiphenyl (19-109%)	*58 %*					*04/15/09 16:00*	*SW846 8270D*	*9041798*
Surr: Nitrobenzene-d5 (22-104%)	*57 %*					*04/15/09 16:00*	*SW846 8270D*	*9041798*

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Client	EEG - Env. Enterprise Group (2449)	Work Order:	NSD0949
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/10/09 08:10

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSD0949-03 (255 Beech-2 - Soil) Sampled: 04/07/09 14:45								
General Chemistry Parameters								
% Dry Solids	**79.1**		%	0.500	1	04/16/09 08:12	SW-846	9042321
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg dry	0.00218	1	04/20/09 16:33	SW846 8260B	9043056
Ethylbenzene	ND		mg/kg dry	0.00218	1	04/20/09 16:33	SW846 8260B	9043056
Naphthalene	**0.0123**		mg/kg dry	0.00544	1	04/20/09 16:33	SW846 8260B	9043056
Toluene	**0.00536**		mg/kg dry	0.00218	1	04/20/09 16:33	SW846 8260B	9043056
Xylenes, total	ND		mg/kg dry	0.00544	1	04/20/09 16:33	SW846 8260B	9043056
Surr: 1,2-Dichloroethane-d4 (41-150%)	*93 %*					*04/20/09 16:33*	*SW846 8260B*	*9043056*
Surr: Dibromofluoromethane (55-139%)	*98 %*					*04/20/09 16:33*	*SW846 8260B*	*9043056*
Surr: Toluene-d8 (57-148%)	*94 %*					*04/20/09 16:33*	*SW846 8260B*	*9043056*
Surr: 4-Bromofluorobenzene (58-150%)	*108 %*					*04/20/09 16:33*	*SW846 8260B*	*9043056*
Polyaromatic Hydrocarbons by EPA 8270D								
Acenaphthene	ND		mg/kg dry	0.0845	1	04/15/09 16:23	SW846 8270D	9041798
Acenaphthylene	ND		mg/kg dry	0.0845	1	04/15/09 16:23	SW846 8270D	9041798
Anthracene	ND		mg/kg dry	0.0845	1	04/15/09 16:23	SW846 8270D	9041798
Benzo (a) anthracene	**0.0967**		mg/kg dry	0.0845	1	04/15/09 16:23	SW846 8270D	9041798
Benzo (a) pyrene	ND		mg/kg dry	0.0845	1	04/15/09 16:23	SW846 8270D	9041798
Benzo (b) fluoranthene	ND		mg/kg dry	0.0845	1	04/15/09 16:23	SW846 8270D	9041798
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0845	1	04/15/09 16:23	SW846 8270D	9041798
Benzo (k) fluoranthene	ND		mg/kg dry	0.0845	1	04/15/09 16:23	SW846 8270D	9041798
Chrysene	ND		mg/kg dry	0.0845	1	04/15/09 16:23	SW846 8270D	9041798
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0845	1	04/15/09 16:23	SW846 8270D	9041798
Fluoranthene	**0.287**		mg/kg dry	0.0845	1	04/15/09 16:23	SW846 8270D	9041798
Fluorene	ND		mg/kg dry	0.0845	1	04/15/09 16:23	SW846 8270D	9041798
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0845	1	04/15/09 16:23	SW846 8270D	9041798
Naphthalene	ND		mg/kg dry	0.0845	1	04/15/09 16:23	SW846 8270D	9041798
Phenanthrene	**0.207**		mg/kg dry	0.0845	1	04/15/09 16:23	SW846 8270D	9041798
Pyrene	**0.266**		mg/kg dry	0.0845	1	04/15/09 16:23	SW846 8270D	9041798
1-Methylnaphthalene	ND		mg/kg dry	0.0845	1	04/15/09 16:23	SW846 8270D	9041798
2-Methylnaphthalene	ND		mg/kg dry	0.0845	1	04/15/09 16:23	SW846 8270D	9041798
Surr: Terphenyl-d14 (26-128%)	*69 %*					*04/15/09 16:23*	*SW846 8270D*	*9041798*
Surr: 2-Fluorobiphenyl (19-109%)	*60 %*					*04/15/09 16:23*	*SW846 8270D*	*9041798*
Surr: Nitrobenzene-d5 (22-104%)	*59 %*					*04/15/09 16:23*	*SW846 8270D*	*9041798*

Client	EEG - Env. Enterprise Group (2449)	Work Order:	NSD0949
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/10/09 08:10

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSD0949-04 (279 Birch - Soil) Sampled: 04/09/09 14:20								
General Chemistry Parameters								
% Dry Solids	**72.8**		%	0.500	1	04/16/09 08:12	SW-846	9042321
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg dry	0.00210	1	04/20/09 17:04	SW846 8260B	9043056
Ethylbenzene	**0.0125**		mg/kg dry	0.00210	1	04/20/09 17:04	SW846 8260B	9043056
Naphthalene	**0.188**		mg/kg dry	0.00524	1	04/20/09 17:04	SW846 8260B	9043056
Toluene	**0.00370**		mg/kg dry	0.00210	1	04/20/09 17:04	SW846 8260B	9043056
Xylenes, total	ND		mg/kg dry	0.00524	1	04/20/09 17:04	SW846 8260B	9043056
Surr: 1,2-Dichloroethane-d4 (41-150%)	*103 %*					*04/20/09 17:04*	*SW846 8260B*	*9043056*
Surr: Dibromofluoromethane (55-139%)	*102 %*					*04/20/09 17:04*	*SW846 8260B*	*9043056*
Surr: Toluene-d8 (57-148%)	*93 %*					*04/20/09 17:04*	*SW846 8260B*	*9043056*
Surr: 4-Bromofluorobenzene (58-150%)	*100 %*					*04/20/09 17:04*	*SW846 8260B*	*9043056*
Polyaromatic Hydrocarbons by EPA 8270D								
Acenaphthene	ND		mg/kg dry	0.0904	1	04/15/09 17:08	SW846 8270D	9041798
Acenaphthylene	ND		mg/kg dry	0.0904	1	04/15/09 17:08	SW846 8270D	9041798
Anthracene	**0.0972**		mg/kg dry	0.0904	1	04/15/09 17:08	SW846 8270D	9041798
Benzo (a) anthracene	ND		mg/kg dry	0.0904	1	04/15/09 17:08	SW846 8270D	9041798
Benzo (a) pyrene	ND		mg/kg dry	0.0904	1	04/15/09 17:08	SW846 8270D	9041798
Benzo (b) fluoranthene	ND		mg/kg dry	0.0904	1	04/15/09 17:08	SW846 8270D	9041798
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0904	1	04/15/09 17:08	SW846 8270D	9041798
Benzo (k) fluoranthene	ND		mg/kg dry	0.0904	1	04/15/09 17:08	SW846 8270D	9041798
Chrysene	ND		mg/kg dry	0.0904	1	04/15/09 17:08	SW846 8270D	9041798
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0904	1	04/15/09 17:08	SW846 8270D	9041798
Fluoranthene	**0.584**		mg/kg dry	0.0904	1	04/15/09 17:08	SW846 8270D	9041798
Fluorene	ND		mg/kg dry	0.0904	1	04/15/09 17:08	SW846 8270D	9041798
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0904	1	04/15/09 17:08	SW846 8270D	9041798
Naphthalene	**0.0913**		mg/kg dry	0.0904	1	04/15/09 17:08	SW846 8270D	9041798
Phenanthrene	**0.387**		mg/kg dry	0.0904	1	04/15/09 17:08	SW846 8270D	9041798
Pyrene	**0.370**		mg/kg dry	0.0904	1	04/15/09 17:08	SW846 8270D	9041798
1-Methylnaphthalene	**0.291**		mg/kg dry	0.0904	1	04/15/09 17:08	SW846 8270D	9041798
2-Methylnaphthalene	**0.419**		mg/kg dry	0.0904	1	04/15/09 17:08	SW846 8270D	9041798
Surr: Terphenyl-d14 (26-128%)	*66 %*					*04/15/09 17:08*	*SW846 8270D*	*9041798*
Surr: 2-Fluorobiphenyl (19-109%)	*50 %*					*04/15/09 17:08*	*SW846 8270D*	*9041798*
Surr: Nitrobenzene-d5 (22-104%)	*53 %*					*04/15/09 17:08*	*SW846 8270D*	*9041798*

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Client	EEG - Env. Enterprise Group (2449)	Work Order:	NSD0949
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/10/09 08:10

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
Polyaromatic Hydrocarbons by EPA 8270D							
SW846 8270D	9041798	NSD0949-01	30.61	1.00	04/13/09 10:35	TEM	EPA 3550B
SW846 8270D	9041798	NSD0949-02	30.50	1.00	04/13/09 10:35	TEM	EPA 3550B
SW846 8270D	9041798	NSD0949-03	30.06	1.00	04/13/09 10:35	TEM	EPA 3550B
SW846 8270D	9041798	NSD0949-04	30.54	1.00	04/13/09 10:35	TEM	EPA 3550B
Selected Volatile Organic Compounds by EPA Method 8260B							
SW846 8260B	9043056	NSD0949-01	6.25	5.00	04/06/09 13:45	JRL	EPA 5035
SW846 8260B	9043200	NSD0949-01RE1	5.66	5.00	04/06/09 13:45	JRL	EPA 5035
SW846 8260B	9043056	NSD0949-02	6.15	5.00	04/07/09 10:40	JRL	EPA 5035
SW846 8260B	9043200	NSD0949-02RE1	6.13	5.00	04/07/09 10:40	JRL	EPA 5035
SW846 8260B	9043056	NSD0949-03	5.81	5.00	04/07/09 14:45	JRL	EPA 5035
SW846 8260B	9043056	NSD0949-04	6.55	5.00	04/09/09 14:20	JRL	EPA 5035

Client	EEG - Env. Enterprise Group (2449)	Work Order:	NSD0949
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/10/09 08:10

PROJECT QUALITY CONTROL DATA
Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Selected Volatile Organic Compounds by EPA Method 8260B						
9043056-BLK1						
Benzene	<0.000670		mg/kg wet	9043056	9043056-BLK1	04/20/09 14:30
Ethylbenzene	<0.000670		mg/kg wet	9043056	9043056-BLK1	04/20/09 14:30
Naphthalene	<0.00151		mg/kg wet	9043056	9043056-BLK1	04/20/09 14:30
Toluene	<0.000670		mg/kg wet	9043056	9043056-BLK1	04/20/09 14:30
Xylenes, total	<0.00172		mg/kg wet	9043056	9043056-BLK1	04/20/09 14:30
Surrogate: 1,2-Dichloroethane-d4	102%			9043056	9043056-BLK1	04/20/09 14:30
Surrogate: Dibromofluoromethane	103%			9043056	9043056-BLK1	04/20/09 14:30
Surrogate: Toluene-d8	92%			9043056	9043056-BLK1	04/20/09 14:30
Surrogate: 4-Bromofluorobenzene	84%			9043056	9043056-BLK1	04/20/09 14:30
9043200-BLK1						
Benzene	<0.000670		mg/kg wet	9043200	9043200-BLK1	04/21/09 11:56
Ethylbenzene	<0.000670		mg/kg wet	9043200	9043200-BLK1	04/21/09 11:56
Naphthalene	<0.00151		mg/kg wet	9043200	9043200-BLK1	04/21/09 11:56
Toluene	<0.000670		mg/kg wet	9043200	9043200-BLK1	04/21/09 11:56
Xylenes, total	<0.00172		mg/kg wet	9043200	9043200-BLK1	04/21/09 11:56
Surrogate: 1,2-Dichloroethane-d4	128%			9043200	9043200-BLK1	04/21/09 11:56
Surrogate: Dibromofluoromethane	101%			9043200	9043200-BLK1	04/21/09 11:56
Surrogate: Toluene-d8	93%			9043200	9043200-BLK1	04/21/09 11:56
Surrogate: 4-Bromofluorobenzene	110%			9043200	9043200-BLK1	04/21/09 11:56
Polyaromatic Hydrocarbons by EPA 8270D						
9041798-BLK1						
Acenaphthene	<0.0310		mg/kg wet	9041798	9041798-BLK1	04/14/09 17:34
Acenaphthylene	<0.0320		mg/kg wet	9041798	9041798-BLK1	04/14/09 17:34
Anthracene	<0.0330		mg/kg wet	9041798	9041798-BLK1	04/14/09 17:34
Benzo (a) anthracene	<0.0380		mg/kg wet	9041798	9041798-BLK1	04/14/09 17:34
Benzo (a) pyrene	<0.0290		mg/kg wet	9041798	9041798-BLK1	04/14/09 17:34
Benzo (b) fluoranthene	<0.0320		mg/kg wet	9041798	9041798-BLK1	04/14/09 17:34
Benzo (g,h,i) perylene	<0.0290		mg/kg wet	9041798	9041798-BLK1	04/14/09 17:34
Benzo (k) fluoranthene	<0.0290		mg/kg wet	9041798	9041798-BLK1	04/14/09 17:34
Chrysene	<0.0390		mg/kg wet	9041798	9041798-BLK1	04/14/09 17:34
Dibenz (a,h) anthracene	<0.0310		mg/kg wet	9041798	9041798-BLK1	04/14/09 17:34
Fluoranthene	<0.0340		mg/kg wet	9041798	9041798-BLK1	04/14/09 17:34
Fluorene	<0.0390		mg/kg wet	9041798	9041798-BLK1	04/14/09 17:34
Indeno (1,2,3-cd) pyrene	<0.0310		mg/kg wet	9041798	9041798-BLK1	04/14/09 17:34
Naphthalene	<0.0410		mg/kg wet	9041798	9041798-BLK1	04/14/09 17:34
Phenanthrene	<0.0340		mg/kg wet	9041798	9041798-BLK1	04/14/09 17:34
Pyrene	<0.0410		mg/kg wet	9041798	9041798-BLK1	04/14/09 17:34
Surrogate: Terphenyl-d14	80%			9041798	9041798-BLK1	04/14/09 17:34
Surrogate: 2-Fluorobiphenyl	81%			9041798	9041798-BLK1	04/14/09 17:34

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Client	EEG - Env. Enterprise Group (2449)	Work Order:	NSD0949
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/10/09 08:10

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8270D						
9041798-BLK1						
Surrogate: Nitrobenzene-d5	83%			9041798	9041798-BLK1	04/14/09 17:34

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Client	EEG - Env. Enterprise Group (2449)	Work Order:	NSD0949
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/10/09 08:10

PROJECT QUALITY CONTROL DATA
Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	% Rec.	Analyzed Date/Time
General Chemistry Parameters										
9042321-DUP1										
% Dry Solids	86.1	84.8		%	2	20	9042321	NSD0937-15		04/16/09 08:12

Client	EEG - Env. Enterprise Group (2449)	Work Order:	NSD0949
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/10/09 08:10

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Selected Volatile Organic Compounds by EPA Method 8260B								
9043056-BS1								
Benzene	50.0	51.3		ug/kg	103%	76 - 130	9043056	04/20/09 12:28
Ethylbenzene	50.0	44.5		ug/kg	89%	80 - 128	9043056	04/20/09 12:28
Naphthalene	50.0	36.3		ug/kg	73%	63 - 144	9043056	04/20/09 12:28
Toluene	50.0	45.6		ug/kg	91%	80 - 125	9043056	04/20/09 12:28
Xylenes, total	150	137		ug/kg	91%	79 - 130	9043056	04/20/09 12:28
Surrogate: 1,2-Dichloroethane-d4	50.0	51.0			102%	41 - 150	9043056	04/20/09 12:28
Surrogate: Dibromofluoromethane	50.0	53.1			106%	55 - 139	9043056	04/20/09 12:28
Surrogate: Toluene-d8	50.0	46.5			93%	57 - 148	9043056	04/20/09 12:28
Surrogate: 4-Bromofluorobenzene	50.0	42.1			84%	58 - 150	9043056	04/20/09 12:28
9043200-BS1								
Benzene	50.0	52.2		ug/kg	104%	76 - 130	9043200	04/21/09 10:20
Ethylbenzene	50.0	55.9		ug/kg	112%	80 - 128	9043200	04/21/09 10:20
Naphthalene	50.0	62.2		ug/kg	124%	63 - 144	9043200	04/21/09 10:20
Toluene	50.0	51.0		ug/kg	102%	80 - 125	9043200	04/21/09 10:20
Xylenes, total	150	170		ug/kg	113%	79 - 130	9043200	04/21/09 10:20
Surrogate: 1,2-Dichloroethane-d4	50.0	66.4			133%	41 - 150	9043200	04/21/09 10:20
Surrogate: Dibromofluoromethane	50.0	49.9			100%	55 - 139	9043200	04/21/09 10:20
Surrogate: Toluene-d8	50.0	47.9			96%	57 - 148	9043200	04/21/09 10:20
Surrogate: 4-Bromofluorobenzene	50.0	56.6			113%	58 - 150	9043200	04/21/09 10:20
Polyaromatic Hydrocarbons by EPA 8270D								
9041798-BS1								
Acenaphthene	1.67	1.52		mg/kg wet	91%	52 - 106	9041798	04/14/09 17:57
Acenaphthylene	1.67	1.52		mg/kg wet	91%	53 - 109	9041798	04/14/09 17:57
Anthracene	1.67	1.65		mg/kg wet	99%	54 - 124	9041798	04/14/09 17:57
Benzo (a) anthracene	1.67	1.47		mg/kg wet	88%	53 - 111	9041798	04/14/09 17:57
Benzo (a) pyrene	1.67	1.56		mg/kg wet	93%	52 - 122	9041798	04/14/09 17:57
Benzo (b) fluoranthene	1.67	1.48		mg/kg wet	89%	48 - 115	9041798	04/14/09 17:57
Benzo (g,h,i) perylene	1.67	1.50		mg/kg wet	90%	46 - 114	9041798	04/14/09 17:57
Benzo (k) fluoranthene	1.67	1.58		mg/kg wet	95%	41 - 121	9041798	04/14/09 17:57
Chrysene	1.67	1.46		mg/kg wet	87%	49 - 113	9041798	04/14/09 17:57
Dibenz (a,h) anthracene	1.67	1.57		mg/kg wet	94%	47 - 117	9041798	04/14/09 17:57
Fluoranthene	1.67	1.59		mg/kg wet	95%	52 - 113	9041798	04/14/09 17:57
Fluorene	1.67	1.51		mg/kg wet	90%	54 - 107	9041798	04/14/09 17:57
Indeno (1,2,3-cd) pyrene	1.67	1.57		mg/kg wet	94%	47 - 115	9041798	04/14/09 17:57
Naphthalene	1.67	1.28		mg/kg wet	77%	34 - 107	9041798	04/14/09 17:57
Phenanthrene	1.67	1.51		mg/kg wet	91%	53 - 108	9041798	04/14/09 17:57
Pyrene	1.67	1.47		mg/kg wet	88%	54 - 113	9041798	04/14/09 17:57
Surrogate: Terphenyl-d14	1.67	1.33			80%	26 - 128	9041798	04/14/09 17:57
Surrogate: 2-Fluorobiphenyl	1.67	1.40			84%	19 - 109	9041798	04/14/09 17:57

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Client	EEG - Env. Enterprise Group (2449)	Work Order:	NSD0949
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/10/09 08:10

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8270D								
9041798-BS1								
Surrogate: Nitrobenzene-d5	1.67	1.30			78%	22 - 104	9041798	04/14/09 17:57

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Client	EEG - Env. Enterprise Group (2449)	Work Order:	NSD0949
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/10/09 08:10

PROJECT QUALITY CONTROL DATA

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Selected Volatile Organic Compounds by EPA Method 8260B												
9043056-BSD1												
Benzene		51.4		ug/kg	50.0	103%	76 - 130	0.3	43	9043056		04/20/09 12:58
Ethylbenzene		45.1		ug/kg	50.0	90%	80 - 128	1	48	9043056		04/20/09 12:58
Naphthalene		41.0		ug/kg	50.0	82%	63 - 144	12	50	9043056		04/20/09 12:58
Toluene		45.2		ug/kg	50.0	90%	80 - 125	0.8	44	9043056		04/20/09 12:58
Xylenes, total		136		ug/kg	150	90%	79 - 130	1	48	9043056		04/20/09 12:58
Surrogate: 1,2-Dichloroethane-d4		50.5		ug/kg	50.0	101%	41 - 150			9043056		04/20/09 12:58
Surrogate: Dibromofluoromethane		52.6		ug/kg	50.0	105%	55 - 139			9043056		04/20/09 12:58
Surrogate: Toluene-d8		46.2		ug/kg	50.0	92%	57 - 148			9043056		04/20/09 12:58
Surrogate: 4-Bromofluorobenzene		49.1		ug/kg	50.0	98%	58 - 150			9043056		04/20/09 12:58
9043200-BSD1												
Benzene		53.9		ug/kg	50.0	108%	76 - 130	3	43	9043200		04/21/09 10:51
Ethylbenzene		57.2		ug/kg	50.0	114%	80 - 128	2	48	9043200		04/21/09 10:51
Naphthalene		67.3		ug/kg	50.0	135%	63 - 144	8	50	9043200		04/21/09 10:51
Toluene		52.4		ug/kg	50.0	105%	80 - 125	3	44	9043200		04/21/09 10:51
Xylenes, total		174		ug/kg	150	116%	79 - 130	3	48	9043200		04/21/09 10:51
Surrogate: 1,2-Dichloroethane-d4		67.0		ug/kg	50.0	134%	41 - 150			9043200		04/21/09 10:51
Surrogate: Dibromofluoromethane		50.2		ug/kg	50.0	100%	55 - 139			9043200		04/21/09 10:51
Surrogate: Toluene-d8		49.0		ug/kg	50.0	98%	57 - 148			9043200		04/21/09 10:51
Surrogate: 4-Bromofluorobenzene		56.4		ug/kg	50.0	113%	58 - 150			9043200		04/21/09 10:51

Client	EEG - Env. Enterprise Group (2449)	Work Order:	NSD0949
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/10/09 08:10

PROJECT QUALITY CONTROL DATA
Matrix Spike

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Selected Volatile Organic Compounds by EPA Method 8260B										
9043056-MS1										
Benzene	ND	0.0301		mg/kg dry	0.0531	57%	33 - 146	9043056	NSD1692-05	04/20/09 22:10
Ethylbenzene	ND	0.0263		mg/kg dry	0.0531	49%	16 - 160	9043056	NSD1692-05	04/20/09 22:10
Naphthalene	0.00267	0.0146		mg/kg dry	0.0531	22%	10 - 151	9043056	NSD1692-05	04/20/09 22:10
Toluene	0.00453	0.0322		mg/kg dry	0.0531	52%	30 - 145	9043056	NSD1692-05	04/20/09 22:10
Xylenes, total	ND	0.0764		mg/kg dry	0.159	48%	16 - 159	9043056	NSD1692-05	04/20/09 22:10
Surrogate: 1,2-Dichloroethane-d4		49.7		ug/kg	50.0	99%	41 - 150	9043056	NSD1692-05	04/20/09 22:10
Surrogate: Dibromofluoromethane		51.3		ug/kg	50.0	103%	55 - 139	9043056	NSD1692-05	04/20/09 22:10
Surrogate: Toluene-d8		47.3		ug/kg	50.0	95%	57 - 148	9043056	NSD1692-05	04/20/09 22:10
Surrogate: 4-Bromofluorobenzene		48.2		ug/kg	50.0	96%	58 - 150	9043056	NSD1692-05	04/20/09 22:10
9043200-MS1										
Benzene	4.70	49.7		ug/kg	50.0	90%	33 - 146	9043200	NSD0945-02	04/21/09 21:13
Ethylbenzene	3.33	54.3		ug/kg	50.0	102%	16 - 160	9043200	NSD0945-02	04/21/09 21:13
Naphthalene	1.59	37.5		ug/kg	50.0	72%	10 - 151	9043200	NSD0945-02	04/21/09 21:13
Toluene	8.28	61.8		ug/kg	50.0	107%	30 - 145	9043200	NSD0945-02	04/21/09 21:13
Xylenes, total	8.45	163		ug/kg	150	103%	16 - 159	9043200	NSD0945-02	04/21/09 21:13
Surrogate: 1,2-Dichloroethane-d4		66.3		ug/kg	50.0	133%	41 - 150	9043200	NSD0945-02	04/21/09 21:13
Surrogate: Dibromofluoromethane		50.6		ug/kg	50.0	101%	55 - 139	9043200	NSD0945-02	04/21/09 21:13
Surrogate: Toluene-d8		49.8		ug/kg	50.0	100%	57 - 148	9043200	NSD0945-02	04/21/09 21:13
Surrogate: 4-Bromofluorobenzene		62.7		ug/kg	50.0	125%	58 - 150	9043200	NSD0945-02	04/21/09 21:13
Polyaromatic Hydrocarbons by EPA 8270D										
9041798-MS1										
Acenaphthene	ND	1.50		mg/kg dry	1.93	78%	28 - 117	9041798	NSD0980-01	04/14/09 18:20
Acenaphthylene	ND	1.66		mg/kg dry	1.93	86%	33 - 113	9041798	NSD0980-01	04/14/09 18:20
Anthracene	ND	1.77		mg/kg dry	1.93	92%	31 - 131	9041798	NSD0980-01	04/14/09 18:20
Benzo (a) anthracene	ND	1.63		mg/kg dry	1.93	85%	29 - 124	9041798	NSD0980-01	04/14/09 18:20
Benzo (a) pyrene	ND	1.70		mg/kg dry	1.93	88%	30 - 127	9041798	NSD0980-01	04/14/09 18:20
Benzo (b) fluoranthene	ND	1.85		mg/kg dry	1.93	96%	26 - 128	9041798	NSD0980-01	04/14/09 18:20
Benzo (g,h,i) perylene	ND	1.66		mg/kg dry	1.93	86%	21 - 122	9041798	NSD0980-01	04/14/09 18:20
Benzo (k) fluoranthene	ND	1.56		mg/kg dry	1.93	81%	20 - 130	9041798	NSD0980-01	04/14/09 18:20
Chrysene	ND	1.64		mg/kg dry	1.93	85%	30 - 119	9041798	NSD0980-01	04/14/09 18:20
Dibenz (a,h) anthracene	ND	1.72		mg/kg dry	1.93	90%	27 - 122	9041798	NSD0980-01	04/14/09 18:20
Fluoranthene	0.0443	1.66		mg/kg dry	1.93	84%	23 - 132	9041798	NSD0980-01	04/14/09 18:20
Fluorene	ND	1.67		mg/kg dry	1.93	87%	38 - 110	9041798	NSD0980-01	04/14/09 18:20
Indeno (1,2,3-cd) pyrene	ND	1.74		mg/kg dry	1.93	90%	24 - 122	9041798	NSD0980-01	04/14/09 18:20
Naphthalene	ND	1.35		mg/kg dry	1.93	70%	14 - 117	9041798	NSD0980-01	04/14/09 18:20
Phenanthrene	ND	1.66		mg/kg dry	1.93	86%	21 - 130	9041798	NSD0980-01	04/14/09 18:20

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Client	EEG - Env. Enterprise Group (2449)	Work Order:	NSD0949
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/10/09 08:10

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8270D										
9041798-MS1										
Pyrene	ND	1.58		mg/kg dry	1.93	82%	24 - 133	9041798	NSD0980-01	04/14/09 18:20
Surrogate: Terphenyl-d14		1.41		mg/kg dry	1.93	73%	26 - 128	9041798	NSD0980-01	04/14/09 18:20
Surrogate: 2-Fluorobiphenyl		1.47		mg/kg dry	1.93	76%	19 - 109	9041798	NSD0980-01	04/14/09 18:20
Surrogate: Nitrobenzene-d5		1.35		mg/kg dry	1.93	70%	22 - 104	9041798	NSD0980-01	04/14/09 18:20

Client	EEG - Env. Enterprise Group (2449)	Work Order:	NSD0949
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/10/09 08:10

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Selected Volatile Organic Compounds by EPA Method 8260B												
9043056-MSD1												
Benzene	ND	0.0463		mg/kg dry	0.0515	90%	33 - 146	42	43	9043056	NSD1692-05	04/20/09 22:40
Ethylbenzene	ND	0.0431		mg/kg dry	0.0515	84%	16 - 160	48	48	9043056	NSD1692-05	04/20/09 22:40
Naphthalene	0.00267	0.0220		mg/kg dry	0.0515	38%	10 - 151	40	50	9043056	NSD1692-05	04/20/09 22:40
Toluene	0.00453	0.0489		mg/kg dry	0.0515	86%	30 - 145	41	44	9043056	NSD1692-05	04/20/09 22:40
Xylenes, total	ND	0.128	R	mg/kg dry	0.154	83%	16 - 159	51	48	9043056	NSD1692-05	04/20/09 22:40
Surrogate: 1,2-Dichloroethane-d4		48.5		ug/kg	50.0	97%	41 - 150			9043056	NSD1692-05	04/20/09 22:40
Surrogate: Dibromofluoromethane		51.3		ug/kg	50.0	103%	55 - 139			9043056	NSD1692-05	04/20/09 22:40
Surrogate: Toluene-d8		47.3		ug/kg	50.0	95%	57 - 148			9043056	NSD1692-05	04/20/09 22:40
Surrogate: 4-Bromofluorobenzene		50.8		ug/kg	50.0	102%	58 - 150			9043056	NSD1692-05	04/20/09 22:40
9043200-MSD1												
Benzene	5.77	55.7		ug/kg	50.0	100%	33 - 146	11	43	9043200	NSD0945-02	04/21/09 21:44
Ethylbenzene	4.09	57.5		ug/kg	50.0	107%	16 - 160	6	48	9043200	NSD0945-02	04/21/09 21:44
Naphthalene	1.96	35.0		ug/kg	50.0	66%	10 - 151	7	50	9043200	NSD0945-02	04/21/09 21:44
Toluene	10.2	65.4		ug/kg	50.0	110%	30 - 145	6	44	9043200	NSD0945-02	04/21/09 21:44
Xylenes, total	10.4	172		ug/kg	150	108%	16 - 159	6	48	9043200	NSD0945-02	04/21/09 21:44
Surrogate: 1,2-Dichloroethane-d4		66.1		ug/kg	50.0	132%	41 - 150			9043200	NSD0945-02	04/21/09 21:44
Surrogate: Dibromofluoromethane		50.1		ug/kg	50.0	100%	55 - 139			9043200	NSD0945-02	04/21/09 21:44
Surrogate: Toluene-d8		49.1		ug/kg	50.0	98%	57 - 148			9043200	NSD0945-02	04/21/09 21:44
Surrogate: 4-Bromofluorobenzene		61.0		ug/kg	50.0	122%	58 - 150			9043200	NSD0945-02	04/21/09 21:44
Polyaromatic Hydrocarbons by EPA 8270D												
9041798-MSD1												
Acenaphthene	ND	1.48		mg/kg dry	1.91	77%	28 - 117	1	33	9041798	NSD0980-01	04/14/09 18:43
Acenaphthylene	ND	1.56		mg/kg dry	1.91	82%	33 - 113	6	38	9041798	NSD0980-01	04/14/09 18:43
Anthracene	ND	1.67		mg/kg dry	1.91	87%	31 - 131	6	32	9041798	NSD0980-01	04/14/09 18:43
Benzo (a) anthracene	ND	1.53		mg/kg dry	1.91	80%	29 - 124	7	26	9041798	NSD0980-01	04/14/09 18:43
Benzo (a) pyrene	ND	1.57		mg/kg dry	1.91	82%	30 - 127	8	31	9041798	NSD0980-01	04/14/09 18:43
Benzo (b) fluoranthene	ND	1.54		mg/kg dry	1.91	80%	26 - 128	18	37	9041798	NSD0980-01	04/14/09 18:43
Benzo (g,h,i) perylene	ND	1.52		mg/kg dry	1.91	80%	21 - 122	8	28	9041798	NSD0980-01	04/14/09 18:43
Benzo (k) fluoranthene	ND	1.66		mg/kg dry	1.91	87%	20 - 130	6	35	9041798	NSD0980-01	04/14/09 18:43
Chrysene	ND	1.53		mg/kg dry	1.91	80%	30 - 119	7	31	9041798	NSD0980-01	04/14/09 18:43
Dibenz (a,h) anthracene	ND	1.58		mg/kg dry	1.91	83%	27 - 122	9	32	9041798	NSD0980-01	04/14/09 18:43
Fluoranthene	0.0443	1.65		mg/kg dry	1.91	84%	23 - 132	1	36	9041798	NSD0980-01	04/14/09 18:43
Fluorene	ND	1.55		mg/kg dry	1.91	81%	38 - 110	7	35	9041798	NSD0980-01	04/14/09 18:43
Indeno (1,2,3-cd) pyrene	ND	1.59		mg/kg dry	1.91	83%	24 - 122	9	28	9041798	NSD0980-01	04/14/09 18:43
Naphthalene	ND	1.27		mg/kg dry	1.91	66%	14 - 117	6	34	9041798	NSD0980-01	04/14/09 18:43
Phenanthrene	ND	1.61		mg/kg dry	1.91	84%	21 - 130	3	33	9041798	NSD0980-01	04/14/09 18:43
Pyrene	ND	1.49		mg/kg dry	1.91	78%	24 - 133	6	36	9041798	NSD0980-01	04/14/09 18:43
Surrogate: Terphenyl-d14		1.30		mg/kg dry	1.91	68%	26 - 128			9041798	NSD0980-01	04/14/09 18:43
Surrogate: 2-Fluorobiphenyl		1.41		mg/kg dry	1.91	74%	19 - 109			9041798	NSD0980-01	04/14/09 18:43

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

Client	EEG - Env. Enterprise Group (2449)	Work Order:	NSD0949
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/10/09 08:10

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD Limit	Batch	Sample Duplicated	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8270D											
9041798-MSD1											
Surrogate: Nitrobenzene-d5		1.27		mg/kg dry	1.91	67%	22 - 104		9041798	NSD0980-01	04/14/09 18:43

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

Client	EEG - Env. Enterprise Group (2449)	Work Order:	NSD0949
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/10/09 08:10

CERTIFICATION SUMMARY

TestAmerica Nashville

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

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

Client	EEG - Env. Enterprise Group (2449)	Work Order:	NSD0949
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/10/09 08:10

DATA QUALIFIERS AND DEFINITIONS

H2	Initial analysis within holding time. Reanalysis for the required dilution or confirmation was past holding time.
R	The RPD exceeded the method control limit. The individual analyte QA/QC recoveries, however, were within acceptance limits.
ND	Not detected at the reporting limit (or method detection limit if shown)

METHOD MODIFICATION NOTES

NSD0949
04/24/09 23:59

estAmerica
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
Project Manager: Tom McElwee email: mcelwee@eeginc.net
Telephone Number: 843.412.2097
Sampler Name: (Print) Matt Shaw
Sampler Signature:
Fax No.: 843-879-0401
Site State: SC
PO#: 0829
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	Preservative: HNO3 (Red Label)	Preservative: HCl (Blue Label)	Preservative: NaOH (Orange Label)	Preservative: H2SO4 Plastic (Yellow Label)	Preservative: H2SO4 Glass (Yellow Label)	Preservative: None (Black Label)	Preservative: Other (Specify) Methanol	Matrix: Groundwater	Matrix: Wastewater	Matrix: Drinking Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify):	Analyze For: BTEX + Napth - 8260B	Analyze For: PAH - 8270C	RUSH TAT (Pre-Schedule)
268 Birch	4/6/09	1345	5	X			2						2	1					X		3	2	
255 Birch-1	4/7/09	1040	5	X			2						2	1					X		3	2	
255 Birch-2	4/7/09	1445	5	X			2						2	1					X		3	2	
299 Birch	4/9/09	1420	5	X			2						2	1					X		3	2	

Special Instructions:

Method of Shipment: FEDEX

Relinquished by:	Date	Time	Received by:	Date	Time
	4/9/09	1900	Fedex		
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
				4/10	8:10

Laboratory Comments:
Temperature Upon Receipt: 2.5°C
VOCs Free of Headspace? Y

ATTACHMENT A

UST Certificate of Disposal

CONTRACTOR

Small Business Group, Inc.
10179 Highway 78
Ladson, SC 29456

TEL (843) 879-0403
FAX (843) 879-0401

TANK ID & LOCATION

UST 279Birch, 279 Birch Dr., 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.D. McQueen / 4/30/09

(Name) (Date)

Appendix C
Laboratory Analytical Report - Groundwater

CDM - AECOM
Multimedia Joint Venture

Volatile Organic Compounds by GC/MS

Client: **AECOM - Resolution Consultants**
Laboratory ID: **SC04007-003**
Description: **BEALB279TW01WG20170303**
Matrix: **Aqueous**
Date Sampled: **03/03/2017 1100**
Date Received: **03/04/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/07/2017 1507	PMV		36403

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**	**9.4**		**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		108	85-114
Dibromofluoromethane		108	80-119
1,2-Dichloroethane-d4		100	81-118
Toluene-d8		98	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

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

Semivolatile Organic Compounds by GC/MS

Client: **AECOM - Resolution Consultants**
Laboratory ID: **SC04007-003**
Description: **BEALB279TW01WG20170303**
Matrix: **Aqueous**
Date Sampled: **03/03/2017 1100**
Date Received: **03/04/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D	1	03/15/2017 1306	RBH	03/07/2017 1304	36374

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
Benzo(a)anthracene	**56-55-3**	**8270D**	**0.24**		**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**	**0.18**	**J**	**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		66	44-120
2-Fluorobiphenyl		56	44-119
Terphenyl-d14		68	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

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

Appendix D
Regulatory Correspondence

CDM - AECOM
Multimedia Joint Venture

Healthy People Healthy Communities

December 14, 2016

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 Tank Assessment Reports

Dear Mr. Drawdy:

The South Carolina Department of Health and Environmental Control (the Department) received the Underground Storage Tanks (USTs) Assessment Reports for the addresses listed in the attachment. 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 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 these sites.

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
RCRA Federal Facilities Section

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, December 14, 2016
Subject: IGWA, Laurel Bay Underground Tank Assessment Reports

Draft Final Initial Groundwater Investigation Report for (41 addresses)

Monitoring Well Investigation Recommendation	
113 Birch	279 Birch
274 Birch	268 Beech

dhec
Healthy People. Healthy Communities.

July 27, 2017

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

RE: Draft Final Initial Groundwater Investigation Report, February and March 2017

Dear Mr. Drawdy:

The South Carolina Department of Health and Environmental Control (DHEC) received groundwater data from temporary monitoring well installations in the Draft Final Groundwater Investigation Report, Laurel Bay Military Housing Area for the fifty two (52) addresses shown in the attachment. 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 DHEC's request, groundwater samples were collected from the attached referenced addresses. DHEC 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 groundwater monitoring wells should be installed at the three (3) stated addresses. For the remaining forty nine (49) addresses, there is no indication of contamination on the property and therefore no further investigation is required at this time.

Please note that DHEC'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, DHEC 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 July 27, 2017

Draft Final Initial Groundwater Investigation Report for (52 addresses)

Permanent Well Installation recommedation (3 Addresses):

- 254 Beech Street (110 ug/L)
- 268 Beech Street (28 ug/L)
- 774 Althea Street (35 ug/L)

No Further Action recommendation (49 addresses):

- 113 Birch Drive
- 121 Banyan Drive
- 122 Banyan Drive
- 159 Cypress Street
- 221 Cypress Street
- 274 Birch Drive
- 279 Birch Drive
- 283 Birch Drive
- 328 Ash Street
- 346 Ash Street
- 359 Aspen Street
- 370 Aspen Street
- 377 Aspen Street
- 409 Elderberry Drive
- 465 Dogwood Drive
- 480 Laurel Bay Boulevard
- 486 Laurel Bay Boulevard
- 515 Laurel Bay Boulevard
- 542 Laurel Bay Boulevard
- 593 Aster Street
- 630 Dahlia Drive
- 641 Dahlia Drive
- 693 Camelia Drive
- 723 Bluebell Lane
- 860 Dolphin Street
- 873 Cobia Drive
- 883 Cobia Drive
- 905 Barracuda Drive
- 921 Barracuda Drive
- 935 Albacore Street
- 946 Albacore Street
- 1037 Iris Lane
- 1039 Iris Lane
- 1110 Iris Lane
- 1134 Iris Lane
- 1143 Iris Lane
- 1177 Bobwhite Drive
- 1202 Cardinal Lane
- 1212 Cardinal Lane
- 1222 Cardinal Lane
- 1224 Cardinal Lane
- 1226 Dove Lane
- 1236 Dove Lane
- 1245 Dove Lane
- 1247 Dove Lane
- 1274 Albatross Drive
- 1319 Albatross Drive
- 1337 Albatross Drive
- 1346 Cardinal Lane