

SUMMARY REPORT  
200 BIRCH ROAD (FORMERLY 289 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
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 200 Birch Road (Formerly 289 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*

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*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 200 Birch Road (Formerly 289 Birch Road). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 289 Birch Road* (MCAS Beaufort, 2009). The UST Assessment Report is provided in Appendix B.

### 2.1 UST Removal and Soil Sampling

On April 28, 2009, a single 280 gallon heating oil UST was removed from the landscaped area adjacent to the driveway at 200 Birch Road (Formerly 289 Birch Road). 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 5'8" 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 200 Birch Road (Formerly 289 Birch Road) 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 200 Birch Road (Formerly 289 Birch Road). This NFA determination was obtained in a letter dated July 22, 2009. SCDHEC's NFA letter is provided in Appendix C.

## 4.0 REFERENCES

Marine Corps Air Station Beaufort, 2009. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 289 Birch Road, Laurel Bay Military Housing Area, June 2009.*

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**  
**200 Birch Road (Formerly 289 Birch Road)**  
**Laurel Bay Military Housing Area**  
**Marine Corps Air Station Beaufort**  
**Beaufort, South Carolina**

Constituent	SCDHEC RBSLs <sup>(1)</sup>	Results Sample Collected 04/28/09
<b>Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)</b>		
Benzene	0.003	ND
Ethylbenzene	1.15	ND
Naphthalene	0.036	<b>0.00797</b>
Toluene	0.627	ND
Xylenes, Total	13.01	ND
<b>Semivolatile Organic Compounds Analyzed by EPA Method 8270D (mg/kg)</b>		
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:**

<sup>(1)</sup> South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 1.0 and 1.1 (SCDHEC, May 2001 and SCDHEC, February 2011) 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

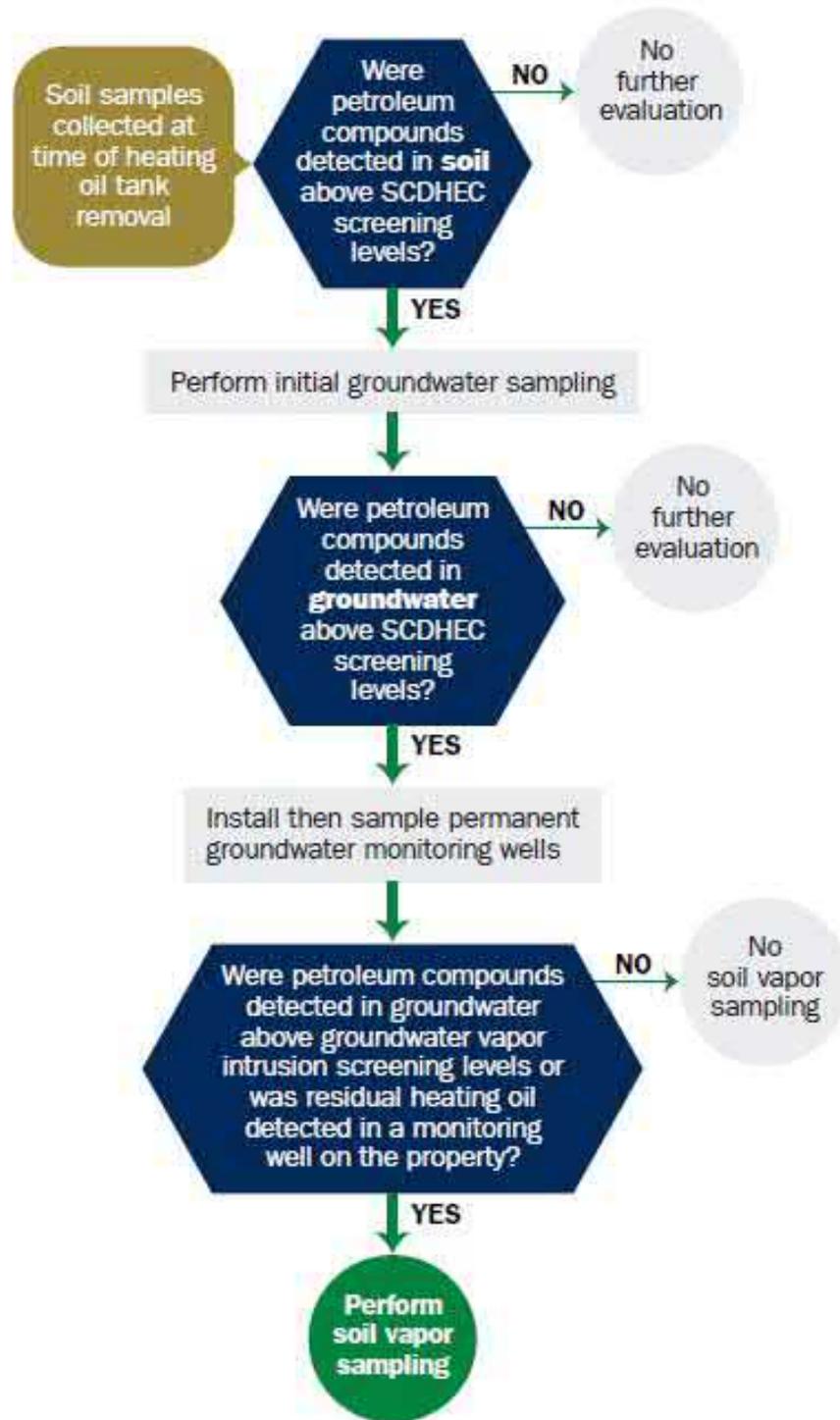
mg/kg - milligram per kilogram

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**



Appendix A - Multi-Media Selection Process for LBMH

**Appendix B**  
**UST Assessment Report**

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

04226

**RECEIVED**

JUN 29 2009

SITE ASSESSMENT,  
REMEDICATION &  
RESTORATION

**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	
289 Birch Dr., Laurel Bay Military Housing Area	
Street Address or State Road (as applicable)	
Beaufort,	Beaufort
City	County

### 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**

289Birch				
Heating oil				
280 gal				
Late 1950s				
Steel				
Mid 1980s				
5'8"				
No				
No				
Removed				
4/28/09				
Yes				
Yes				

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

M. Method of disposal for any USTs removed from the ground (attach disposal manifests)  
UST 289Birch 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

- 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.....

289Birch				
Steel /Copper				
N/A				
N/A				
Suction				
Yes				
Yes				
No				
Late 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 vent pipe. The copper supply and return piping was sound.

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## 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.

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## IX. SITE CONDITIONS

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

## X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 96012001

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
289Birch	Excav at fill end	Soil	Sandy clay	5'8"	4/28/09 1130 hrs	P. Shaw	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

\* = Depth Below the Surrounding Land Surface



## XII. RECEPTORS

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

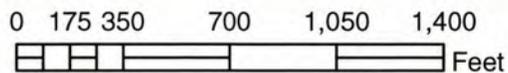
### **XIII. SITE MAP**

**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)



**289 BIRCH DR.**



<b>SBG-EEG, Inc.</b>	
Small Business Group, Inc. 10179 Hwy 78 Ladson, SC 29456	
Ph. (843) 879-0400	
Drawn By:	L. DiAsio
Dwg Date:	May 2009

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

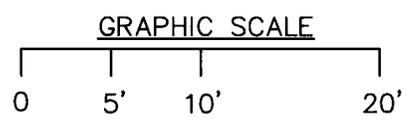


289 BIRCH DR.  
LAUREL BAY MILITARY HOUSING  
MCAS BEAUFORT, SC

SCREENED  
PORCH

PORCH

UST 289BIRCH  
DRIVEWAY



***SBG-EEG***

10179 HWY 78  
LADSON, SC 29456

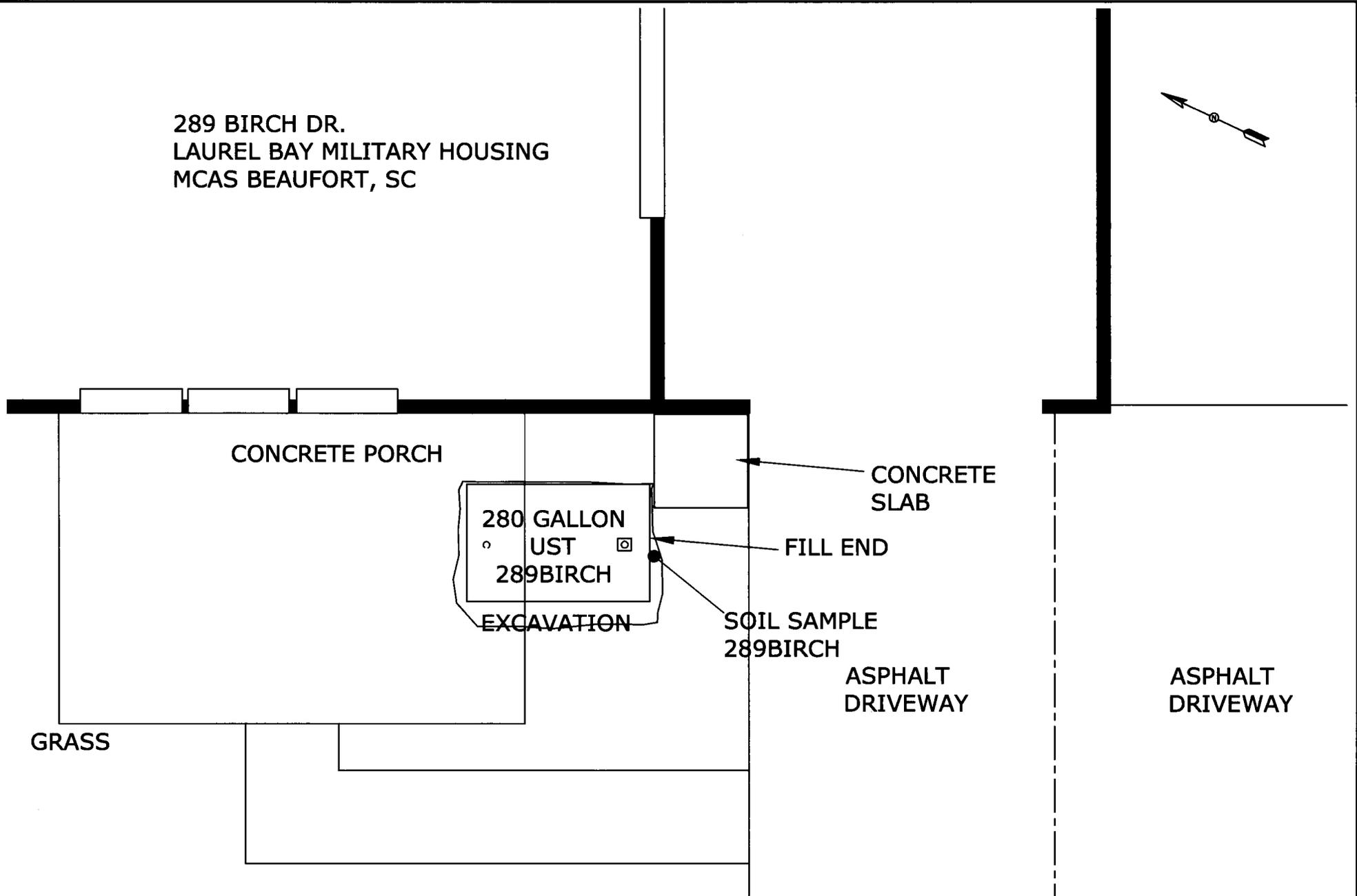
ph. (843) 879-0400

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

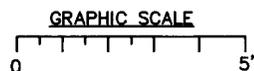
SCALE: GRAPHIC

DWG DATE MAY 2009

289 BIRCH DR.  
LAUREL BAY MILITARY HOUSING  
MCAS BEAUFORT, SC



UST 289BIRCH WAS 32" BELOW GRADE.



**SBG-EEG**

10179 HWY 78  
LADSON, SC 29456

ph. (843) 879-0400

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

SCALE: GRAPHIC

DWG DATE MAY 2009



Picture 1: 289 Birch Dr. underground storage tank site.



Picture 2: UST 289Birch being removed from the 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.

<b>CoC</b>	289 Birch							
<b>Benzene</b>	ND							
<b>Toluene</b>	ND							
<b>Ethylbenzene</b>	ND							
<b>Xylenes</b>	ND							
<b>Naphthalene</b>	0.00797 mg/kg							
<b>Benzo (a) anthracene</b>	ND							
<b>Benzo (b) fluoranthene</b>	ND							
<b>Benzo (k) fluoranthene</b>	ND							
<b>Chrysene</b>	ND							
<b>Dibenz (a, h) anthracene</b>	ND							
<b>TPH (EPA 3550)</b>								

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

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

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

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

## **XV. ANALYTICAL RESULTS**

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

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

May 15, 2009

1:45:00PM

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

Work Order: NSE0094  
Project Name: Laurel Bay Housing Project  
Project Nbr: [none]  
P/O Nbr: 0829  
Date Received: 05/01/09

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
295 Birch-1	NSE0094-01	04/27/09 10:45
295 Birch-2	NSE0094-02	04/27/09 13:00
289 Birch	NSE0094-03	04/28/09 11:30
386 Acorn	NSE0094-04	04/29/09 11:15
397 Acorn-1	NSE0094-05	04/30/09 10:30
397 Acorn-2	NSE0094-06	04/30/09 11:40

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.

This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately at 615-726-0177.

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

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

Work Order: NSE0094  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 05/01/09 08:00

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
<b>Sample ID: NSE0094-01 (295 Birch-1 - Soil) Sampled: 04/27/09 10:45</b>								
General Chemistry Parameters								
% Dry Solids	81.6		%	0.500	1	05/11/09 09:44	SW-846	9051163
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg dry	0.00205	1	05/06/09 05:20	SW846 8260B	9050171
Ethylbenzene	0.00317		mg/kg dry	0.00205	1	05/06/09 05:20	SW846 8260B	9050171
Naphthalene	0.0628	B	mg/kg dry	0.00511	1	05/06/09 05:20	SW846 8260B	9050171
Toluene	ND	B	mg/kg dry	0.00205	1	05/06/09 05:20	SW846 8260B	9050171
Xylenes, total	ND	B	mg/kg dry	0.00511	1	05/06/09 05:20	SW846 8260B	9050171
<i>Surr: 1,2-Dichloroethane-d4 (41-150%)</i>	116 %					05/06/09 05:20	SW846 8260B	9050171
<i>Surr: Dibromofluoromethane (55-139%)</i>	102 %					05/06/09 05:20	SW846 8260B	9050171
<i>Surr: Toluene-d8 (57-148%)</i>	96 %					05/06/09 05:20	SW846 8260B	9050171
<i>Surr: 4-Bromofluorobenzene (58-150%)</i>	107 %					05/06/09 05:20	SW846 8260B	9050171
Polyaromatic Hydrocarbons by EPA 8270D								
Acenaphthene	ND		mg/kg dry	0.0800	1	05/08/09 12:51	SW846 8270D	9050227
Acenaphthylene	ND		mg/kg dry	0.0800	1	05/08/09 12:51	SW846 8270D	9050227
Anthracene	0.0812		mg/kg dry	0.0800	1	05/08/09 12:51	SW846 8270D	9050227
Benzo (a) anthracene	ND		mg/kg dry	0.0800	1	05/08/09 12:51	SW846 8270D	9050227
Benzo (a) pyrene	ND		mg/kg dry	0.0800	1	05/08/09 12:51	SW846 8270D	9050227
Benzo (b) fluoranthene	ND		mg/kg dry	0.0800	1	05/08/09 12:51	SW846 8270D	9050227
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0800	1	05/08/09 12:51	SW846 8270D	9050227
Benzo (k) fluoranthene	ND		mg/kg dry	0.0800	1	05/08/09 12:51	SW846 8270D	9050227
Chrysene	ND		mg/kg dry	0.0800	1	05/08/09 12:51	SW846 8270D	9050227
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0800	1	05/08/09 12:51	SW846 8270D	9050227
Fluoranthene	0.139		mg/kg dry	0.0800	1	05/08/09 12:51	SW846 8270D	9050227
Fluorene	0.115		mg/kg dry	0.0800	1	05/08/09 12:51	SW846 8270D	9050227
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0800	1	05/08/09 12:51	SW846 8270D	9050227
Naphthalene	ND		mg/kg dry	0.0800	1	05/08/09 12:51	SW846 8270D	9050227
Phenanthrene	0.771		mg/kg dry	0.0800	1	05/08/09 12:51	SW846 8270D	9050227
Pyrene	ND		mg/kg dry	0.0800	1	05/08/09 12:51	SW846 8270D	9050227
1-Methylnaphthalene	ND		mg/kg dry	0.0800	1	05/08/09 12:51	SW846 8270D	9050227
2-Methylnaphthalene	ND		mg/kg dry	0.0800	1	05/08/09 12:51	SW846 8270D	9050227
<i>Surr: Terphenyl-d14 (26-128%)</i>	56 %					05/08/09 12:51	SW846 8270D	9050227
<i>Surr: 2-Fluorobiphenyl (19-109%)</i>	50 %					05/08/09 12:51	SW846 8270D	9050227
<i>Surr: Nitrobenzene-d5 (22-104%)</i>	48 %					05/08/09 12:51	SW846 8270D	9050227

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

Work Order: NSE0094  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 05/01/09 08:00

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
<b>Sample ID: NSE0094-02 (295 Birch-2 - Soil) Sampled: 04/27/09 13:00</b>								
General Chemistry Parameters								
% Dry Solids	74.8		%	0.500	1	05/11/09 09:44	SW-846	9051163
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg dry	0.00219	1	05/06/09 05:51	SW846 8260B	9050171
Ethylbenzene	ND		mg/kg dry	0.00219	1	05/06/09 05:51	SW846 8260B	9050171
Naphthalene	0.0151	B	mg/kg dry	0.00548	1	05/06/09 05:51	SW846 8260B	9050171
Toluene	ND	B	mg/kg dry	0.00219	1	05/06/09 05:51	SW846 8260B	9050171
Xylenes, total	ND	B	mg/kg dry	0.00548	1	05/06/09 05:51	SW846 8260B	9050171
Surr: 1,2-Dichloroethane-d4 (41-150%)	119 %					05/06/09 05:51	SW846 8260B	9050171
Surr: Dibromofluoromethane (55-139%)	103 %					05/06/09 05:51	SW846 8260B	9050171
Surr: Toluene-d8 (57-148%)	103 %					05/06/09 05:51	SW846 8260B	9050171
Surr: 4-Bromofluorobenzene (58-150%)	113 %					05/06/09 05:51	SW846 8260B	9050171
Polyaromatic Hydrocarbons by EPA 8270D								
Accnaphthene	ND		mg/kg dry	0.0888	1	05/07/09 19:29	SW846 8270D	9050227
Accnaphthylene	ND		mg/kg dry	0.0888	1	05/07/09 19:29	SW846 8270D	9050227
Anthracene	ND		mg/kg dry	0.0888	1	05/07/09 19:29	SW846 8270D	9050227
Benzo (a) anthracene	ND		mg/kg dry	0.0888	1	05/07/09 19:29	SW846 8270D	9050227
Benzo (a) pyrene	ND		mg/kg dry	0.0888	1	05/07/09 19:29	SW846 8270D	9050227
Benzo (b) fluoranthene	ND		mg/kg dry	0.0888	1	05/07/09 19:29	SW846 8270D	9050227
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0888	1	05/07/09 19:29	SW846 8270D	9050227
Benzo (k) fluoranthene	ND		mg/kg dry	0.0888	1	05/07/09 19:29	SW846 8270D	9050227
Chrysene	ND		mg/kg dry	0.0888	1	05/07/09 19:29	SW846 8270D	9050227
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0888	1	05/07/09 19:29	SW846 8270D	9050227
Fluoranthene	ND		mg/kg dry	0.0888	1	05/07/09 19:29	SW846 8270D	9050227
Fluorene	ND		mg/kg dry	0.0888	1	05/07/09 19:29	SW846 8270D	9050227
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0888	1	05/07/09 19:29	SW846 8270D	9050227
Naphthalene	ND		mg/kg dry	0.0888	1	05/07/09 19:29	SW846 8270D	9050227
Phenanthrene	0.207		mg/kg dry	0.0888	1	05/07/09 19:29	SW846 8270D	9050227
Pyrene	ND		mg/kg dry	0.0888	1	05/07/09 19:29	SW846 8270D	9050227
1-Methylnaphthalene	0.585		mg/kg dry	0.0888	1	05/07/09 19:29	SW846 8270D	9050227
2-Methylnaphthalene	0.0980		mg/kg dry	0.0888	1	05/07/09 19:29	SW846 8270D	9050227
Surr: Terphenyl-d14 (26-128%)	88 %					05/07/09 19:29	SW846 8270D	9050227
Surr: 2-Fluorobiphenyl (19-109%)	87 %					05/07/09 19:29	SW846 8270D	9050227
Surr: Nitrobenzene-d5 (22-104%)	64 %					05/07/09 19:29	SW846 8270D	9050227

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

Work Order: NSE0094  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 05/01/09 08:00

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
<b>Sample ID: NSE0094-03 (289 Birch - Soil) Sampled: 04/28/09 11:30</b>								
General Chemistry Parameters								
% Dry Solids	84.8		%	0.500	1	05/11/09 09:44	SW-846	9051163
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg dry	0.00196	1	05/06/09 06:21	SW846 8260B	9050171
Ethylbenzene	ND		mg/kg dry	0.00196	1	05/06/09 06:21	SW846 8260B	9050171
Naphthalene	0.00797	B	mg/kg dry	0.00491	1	05/06/09 06:21	SW846 8260B	9050171
Toluene	ND	B	mg/kg dry	0.00196	1	05/06/09 06:21	SW846 8260B	9050171
Xylenes, total	ND	B	mg/kg dry	0.00491	1	05/06/09 06:21	SW846 8260B	9050171
Surr: 1,2-Dichloroethane-d4 (41-150%)	115 %					05/06/09 06:21	SW846 8260B	9050171
Surr: Dibromofluoromethane (55-139%)	100 %					05/06/09 06:21	SW846 8260B	9050171
Surr: Toluene-d8 (57-148%)	102 %					05/06/09 06:21	SW846 8260B	9050171
Surr: 4-Bromofluorobenzene (58-150%)	130 %					05/06/09 06:21	SW846 8260B	9050171
Polyaromatic Hydrocarbons by EPA 8270D								
Acenaphthene	ND	RL1	mg/kg dry	0.395	5	05/08/09 13:20	SW846 8270D	9050227
Acenaphthylene	ND	RL1	mg/kg dry	0.395	5	05/08/09 13:20	SW846 8270D	9050227
Anthracene	ND	RL1	mg/kg dry	0.395	5	05/08/09 13:20	SW846 8270D	9050227
Benzo (a) anthracene	ND	RL1	mg/kg dry	0.395	5	05/08/09 13:20	SW846 8270D	9050227
Benzo (a) pyrene	ND	RL1	mg/kg dry	0.395	5	05/08/09 13:20	SW846 8270D	9050227
Benzo (b) fluoranthene	ND	RL1	mg/kg dry	0.395	5	05/08/09 13:20	SW846 8270D	9050227
Benzo (g,h,i) perylene	ND	RL1	mg/kg dry	0.395	5	05/08/09 13:20	SW846 8270D	9050227
Benzo (k) fluoranthene	ND	RL1	mg/kg dry	0.395	5	05/08/09 13:20	SW846 8270D	9050227
Chrysene	ND	RL1	mg/kg dry	0.395	5	05/08/09 13:20	SW846 8270D	9050227
Dibenz (a,h) anthracene	ND	RL1	mg/kg dry	0.395	5	05/08/09 13:20	SW846 8270D	9050227
Fluoranthene	ND	RL1	mg/kg dry	0.395	5	05/08/09 13:20	SW846 8270D	9050227
Fluorene	ND	RL1	mg/kg dry	0.395	5	05/08/09 13:20	SW846 8270D	9050227
Indeno (1,2,3-cd) pyrene	ND	RL1	mg/kg dry	0.395	5	05/08/09 13:20	SW846 8270D	9050227
Naphthalene	ND	RL1	mg/kg dry	0.395	5	05/08/09 13:20	SW846 8270D	9050227
Phenanthrene	ND	RL1	mg/kg dry	0.395	5	05/08/09 13:20	SW846 8270D	9050227
Pyrene	ND	RL1	mg/kg dry	0.395	5	05/08/09 13:20	SW846 8270D	9050227
1-Methylnaphthalene	ND	RL1	mg/kg dry	0.395	5	05/08/09 13:20	SW846 8270D	9050227
2-Methylnaphthalene	ND	RL1	mg/kg dry	0.395	5	05/08/09 13:20	SW846 8270D	9050227
Surr: Terphenyl-d14 (26-128%)	47 %					05/08/09 13:20	SW846 8270D	9050227
Surr: 2-Fluorobiphenyl (19-109%)	45 %					05/08/09 13:20	SW846 8270D	9050227
Surr: Nitrobenzene-d5 (22-104%)	44 %					05/08/09 13:20	SW846 8270D	9050227

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

Work Order: NSE0094  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 05/01/09 08:00

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
<b>Sample ID: NSE0094-04 (386 Acorn - Soil) Sampled: 04/29/09 11:15</b>								
General Chemistry Parameters								
% Dry Solids	72.5		%	0.500	1	05/11/09 09:44	SW-846	9051163
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg dry	0.00220	1	05/06/09 06:51	SW846 8260B	9050171
Ethylbenzene	0.00712		mg/kg dry	0.00220	1	05/06/09 06:51	SW846 8260B	9050171
Naphthalene	0.163	B	mg/kg dry	0.00549	1	05/06/09 06:51	SW846 8260B	9050171
Toluene	ND	B	mg/kg dry	0.00220	1	05/06/09 06:51	SW846 8260B	9050171
Xylenes, total	0.00660	B	mg/kg dry	0.00549	1	05/06/09 06:51	SW846 8260B	9050171
Surr: 1,2-Dichloroethane-d4 (41-150%)	115 %					05/06/09 06:51	SW846 8260B	9050171
Surr: Dibromofluoromethane (55-139%)	101 %					05/06/09 06:51	SW846 8260B	9050171
Surr: Toluene-d8 (57-148%)	110 %					05/06/09 06:51	SW846 8260B	9050171
Surr: 4-Bromofluorobenzene (58-150%)	142 %					05/06/09 06:51	SW846 8260B	9050171
Polyaromatic Hydrocarbons by EPA 8270D								
Acenaphthene	ND		mg/kg dry	0.450	5	05/08/09 13:51	SW846 8270D	9050227
Acenaphthylene	ND		mg/kg dry	0.450	5	05/08/09 13:51	SW846 8270D	9050227
Anthracene	ND		mg/kg dry	0.450	5	05/08/09 13:51	SW846 8270D	9050227
Benzo (a) anthracene	ND		mg/kg dry	0.450	5	05/08/09 13:51	SW846 8270D	9050227
Benzo (a) pyrene	ND		mg/kg dry	0.450	5	05/08/09 13:51	SW846 8270D	9050227
Benzo (b) fluoranthene	ND		mg/kg dry	0.450	5	05/08/09 13:51	SW846 8270D	9050227
Benzo (g,h,i) perylene	ND		mg/kg dry	0.450	5	05/08/09 13:51	SW846 8270D	9050227
Benzo (k) fluoranthene	ND		mg/kg dry	0.450	5	05/08/09 13:51	SW846 8270D	9050227
Chrysene	ND		mg/kg dry	0.450	5	05/08/09 13:51	SW846 8270D	9050227
Dibenz (a,h) anthracene	ND		mg/kg dry	0.450	5	05/08/09 13:51	SW846 8270D	9050227
Fluoranthene	ND		mg/kg dry	0.450	5	05/08/09 13:51	SW846 8270D	9050227
Fluorene	ND		mg/kg dry	0.450	5	05/08/09 13:51	SW846 8270D	9050227
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.450	5	05/08/09 13:51	SW846 8270D	9050227
Naphthalene	ND		mg/kg dry	0.450	5	05/08/09 13:51	SW846 8270D	9050227
Phenanthrene	0.699		mg/kg dry	0.450	5	05/08/09 13:51	SW846 8270D	9050227
Pyrene	ND		mg/kg dry	0.450	5	05/08/09 13:51	SW846 8270D	9050227
1-Methylnaphthalene	1.52		mg/kg dry	0.450	5	05/08/09 13:51	SW846 8270D	9050227
2-Methylnaphthalene	2.22		mg/kg dry	0.450	5	05/08/09 13:51	SW846 8270D	9050227
Surr: Terphenyl-d14 (26-128%)	59 %					05/08/09 13:51	SW846 8270D	9050227
Surr: 2-Fluorobiphenyl (19-109%)	57 %					05/08/09 13:51	SW846 8270D	9050227
Surr: Nitrobenzene-d5 (22-104%)	53 %					05/08/09 13:51	SW846 8270D	9050227

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

Work Order: NSE0094  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 05/01/09 08:00

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
<b>Sample ID: NSE0094-05 (397 Acorn-1 - Soil) Sampled: 04/30/09 10:30</b>								
General Chemistry Parameters								
% Dry Solids	80.3		%	0.500	1	05/11/09 09:44	SW-846	9051163
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg dry	0.00217	1	05/06/09 07:21	SW846 8260B	9050171
Ethylbenzene	ND		mg/kg dry	0.00217	1	05/06/09 07:21	SW846 8260B	9050171
Naphthalene	0.0123	B	mg/kg dry	0.00542	1	05/06/09 07:21	SW846 8260B	9050171
Toluene	ND	B	mg/kg dry	0.00217	1	05/06/09 07:21	SW846 8260B	9050171
Xylenes, total	ND	B	mg/kg dry	0.00542	1	05/06/09 07:21	SW846 8260B	9050171
Surr: 1,2-Dichloroethane-d4 (41-150%)	117 %					05/06/09 07:21	SW846 8260B	9050171
Surr: Dibromofluoromethane (55-139%)	102 %					05/06/09 07:21	SW846 8260B	9050171
Surr: Toluene-d8 (57-148%)	104 %					05/06/09 07:21	SW846 8260B	9050171
Surr: 4-Bromofluorobenzene (58-150%)	122 %					05/06/09 07:21	SW846 8260B	9050171
Polyaromatic Hydrocarbons by EPA 8270D								
Acenaphthene	ND		mg/kg dry	0.0815	1	05/07/09 20:37	SW846 8270D	9050227
Acenaphthylene	ND		mg/kg dry	0.0815	1	05/07/09 20:37	SW846 8270D	9050227
Anthracene	ND		mg/kg dry	0.0815	1	05/07/09 20:37	SW846 8270D	9050227
Benzo (a) anthracene	ND		mg/kg dry	0.0815	1	05/07/09 20:37	SW846 8270D	9050227
Benzo (a) pyrene	ND		mg/kg dry	0.0815	1	05/07/09 20:37	SW846 8270D	9050227
Benzo (b) fluoranthene	ND		mg/kg dry	0.0815	1	05/07/09 20:37	SW846 8270D	9050227
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0815	1	05/07/09 20:37	SW846 8270D	9050227
Benzo (k) fluoranthene	ND		mg/kg dry	0.0815	1	05/07/09 20:37	SW846 8270D	9050227
Chrysene	ND		mg/kg dry	0.0815	1	05/07/09 20:37	SW846 8270D	9050227
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0815	1	05/07/09 20:37	SW846 8270D	9050227
Fluoranthene	ND		mg/kg dry	0.0815	1	05/07/09 20:37	SW846 8270D	9050227
Fluorene	ND		mg/kg dry	0.0815	1	05/07/09 20:37	SW846 8270D	9050227
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0815	1	05/07/09 20:37	SW846 8270D	9050227
Naphthalene	ND		mg/kg dry	0.0815	1	05/07/09 20:37	SW846 8270D	9050227
Phenanthrene	ND		mg/kg dry	0.0815	1	05/07/09 20:37	SW846 8270D	9050227
Pyrene	ND		mg/kg dry	0.0815	1	05/07/09 20:37	SW846 8270D	9050227
1-Methylnaphthalene	ND		mg/kg dry	0.0815	1	05/07/09 20:37	SW846 8270D	9050227
2-Methylnaphthalene	ND		mg/kg dry	0.0815	1	05/07/09 20:37	SW846 8270D	9050227
Surr: Terphenyl-d14 (26-128%)	62 %					05/07/09 20:37	SW846 8270D	9050227
Surr: 2-Fluorobiphenyl (19-109%)	71 %					05/07/09 20:37	SW846 8270D	9050227
Surr: Nitrobenzene-d5 (22-104%)	63 %					05/07/09 20:37	SW846 8270D	9050227

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

Work Order: NSE0094  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 05/01/09 08:00

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
<b>Sample ID: NSE0094-06 (397 Acorn-2 - Soil) Sampled: 04/30/09 11:40</b>								
General Chemistry Parameters								
% Dry Solids	79.3		%	0.500	1	05/11/09 09:44	SW-846	9051163
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzenc	ND		mg/kg dry	0.00214	1	05/06/09 07:51	SW846 8260B	9050171
Ethylbenzene	ND		mg/kg dry	0.00214	1	05/06/09 07:51	SW846 8260B	9050171
Naphthalenc	0.00619	B	mg/kg dry	0.00536	1	05/06/09 07:51	SW846 8260B	9050171
Toluenc	ND	B	mg/kg dry	0.00214	1	05/06/09 07:51	SW846 8260B	9050171
Xylenes, total	ND	B	mg/kg dry	0.00536	1	05/06/09 07:51	SW846 8260B	9050171
Surr: 1,2-Dichloroethane-d4 (41-150%)	115 %					05/06/09 07:51	SW846 8260B	9050171
Surr: Dibromofluoromethane (55-139%)	100 %					05/06/09 07:51	SW846 8260B	9050171
Surr: Toluene-d8 (57-148%)	102 %					05/06/09 07:51	SW846 8260B	9050171
Surr: 4-Bromofluorobenzene (58-150%)	125 %					05/06/09 07:51	SW846 8260B	9050171
Polyaromatic Hydrocarbons by EPA 8270D								
Acenaphthenc	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
Acenaphthylenc	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
Anthracenc	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
Benzo (a) anthracenc	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
Benzo (a) pyrenc	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
Benzo (b) fluoranthenc	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
Benzo (g,h,i) perylenc	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
Benzo (k) fluoranthenc	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
Chrysenc	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
Dibenz (a,h) anthracenc	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
Fluoranthenc	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
Fluorenc	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
Indeno (1,2,3-cd) pyrenc	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
Naphthalenc	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
Phenanthrenc	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
Pyrenc	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
1-Methylnaphthalenc	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
2-Methylnaphthalenc	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
Surr: Terphenyl-d14 (26-128%)	40 %					05/08/09 14:20	SW846 8270D	9050227
Surr: 2-Fluorobiphenyl (19-109%)	50 %					05/08/09 14:20	SW846 8270D	9050227
Surr: Nitrobenzene-d5 (22-104%)	45 %					05/08/09 14:20	SW846 8270D	9050227

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

Work Order: NSE0094  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 05/01/09 08:00

### SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
<b>Polyaromatic Hydrocarbons by EPA 8270D</b>							
SW846 8270D	9050227	NSE0094-01	30.78	1.00	05/06/09 11:20	TEM	EPA 3550B
SW846 8270D	9050227	NSE0094-02	30.27	1.00	05/06/09 11:20	TEM	EPA 3550B
SW846 8270D	9050227	NSE0094-03	30.00	1.00	05/06/09 11:20	TEM	EPA 3550B
SW846 8270D	9050227	NSE0094-03RE1	30.00	1.00	05/06/09 11:20	TEM	EPA 3550B
SW846 8270D	9050227	NSE0094-04	30.79	1.00	05/06/09 11:20	TEM	EPA 3550B
SW846 8270D	9050227	NSE0094-04RE1	30.79	1.00	05/06/09 11:20	TEM	EPA 3550B
SW846 8270D	9050227	NSE0094-05	30.72	1.00	05/06/09 11:20	TEM	EPA 3550B
SW846 8270D	9050227	NSE0094-06	30.83	1.00	05/06/09 11:20	TEM	EPA 3550B
SW846 8270D	9050227	NSE0094-06RE1	30.83	1.00	05/06/09 11:20	TEM	EPA 3550B
<b>Selected Volatile Organic Compounds by EPA Method 8260B</b>							
SW846 8260B	9050171	NSE0094-01	5.99	5.00	04/27/09 10:45	JRL	EPA 5035
SW846 8260B	9050171	NSE0094-02	6.10	5.00	04/27/09 13:00	JRL	EPA 5035
SW846 8260B	9050171	NSE0094-03	6.01	5.00	04/28/09 11:30	JRL	EPA 5035
SW846 8260B	9050171	NSE0094-04	6.28	5.00	04/29/09 11:15	JRL	EPA 5035
SW846 8260B	9050171	NSE0094-05	5.74	5.00	04/30/09 10:30	JRL	EPA 5035
SW846 8260B	9050171	NSE0094-06	5.88	5.00	04/30/09 11:40	JRL	EPA 5035
SW846 8260B	9050171	NSE0094-06RE1	4.57	5.00	04/30/09 11:40	JRL	EPA 5035

Client EEG - Env. Enterprisc Group (2449)  
 10179 Highway 78  
 Ladson, SC 29456  
 Attn Tom McElwcc

Work Order: NSE0094  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 05/01/09 08:00

**PROJECT QUALITY CONTROL DATA**  
**Blank**

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
<b>Selected Volatile Organic Compounds by EPA Method 8260B</b>						
<b>9050171-BLK1</b>						
Benzene	<0.000670		mg/kg wet	9050171	9050171-BLK1	05/06/09 02:19
Ethylbenzene	<0.000670		mg/kg wet	9050171	9050171-BLK1	05/06/09 02:19
Naphthalene	0.00199	B	mg/kg wet	9050171	9050171-BLK1	05/06/09 02:19
Toluene	0.00107	B	mg/kg wet	9050171	9050171-BLK1	05/06/09 02:19
Xylenes, total	0.00284	B	mg/kg wet	9050171	9050171-BLK1	05/06/09 02:19
Surrogate: 1,2-Dichloroethane-d4	117%			9050171	9050171-BLK1	05/06/09 02:19
Surrogate: Dibromofluoromethane	102%			9050171	9050171-BLK1	05/06/09 02:19
Surrogate: Toluene-d8	95%			9050171	9050171-BLK1	05/06/09 02:19
Surrogate: 4-Bromofluorobenzene	103%			9050171	9050171-BLK1	05/06/09 02:19

**Polyaromatic Hydrocarbons by EPA 8270D**

<b>9050227-BLK1</b>						
Acenaphthene	<0.0310		mg/kg wet	9050227	9050227-BLK1	05/06/09 18:56
Acenaphthylene	<0.0320		mg/kg wet	9050227	9050227-BLK1	05/06/09 18:56
Anthracene	<0.0330		mg/kg wet	9050227	9050227-BLK1	05/06/09 18:56
Benzo (a) anthracene	<0.0380		mg/kg wet	9050227	9050227-BLK1	05/06/09 18:56
Benzo (a) pyrene	<0.0290		mg/kg wet	9050227	9050227-BLK1	05/06/09 18:56
Benzo (b) fluoranthene	<0.0320		mg/kg wet	9050227	9050227-BLK1	05/06/09 18:56
Benzo (g,h,i) perylene	<0.0290		mg/kg wet	9050227	9050227-BLK1	05/06/09 18:56
Benzo (k) fluoranthene	<0.0290		mg/kg wet	9050227	9050227-BLK1	05/06/09 18:56
Chrysene	<0.0390		mg/kg wet	9050227	9050227-BLK1	05/06/09 18:56
Dibenz (a,h) anthracene	<0.0310		mg/kg wet	9050227	9050227-BLK1	05/06/09 18:56
Fluoranthene	<0.0340		mg/kg wet	9050227	9050227-BLK1	05/06/09 18:56
Fluorene	<0.0390		mg/kg wet	9050227	9050227-BLK1	05/06/09 18:56
Indeno (1,2,3-cd) pyrene	<0.0310		mg/kg wet	9050227	9050227-BLK1	05/06/09 18:56
Naphthalene	<0.0410		mg/kg wet	9050227	9050227-BLK1	05/06/09 18:56
Phenanthrene	<0.0340		mg/kg wet	9050227	9050227-BLK1	05/06/09 18:56
Pyrene	<0.0410		mg/kg wet	9050227	9050227-BLK1	05/06/09 18:56
1-Methylnaphthalene	<0.0320		mg/kg wet	9050227	9050227-BLK1	05/06/09 18:56
2-Methylnaphthalene	<0.0330		mg/kg wet	9050227	9050227-BLK1	05/06/09 18:56
Surrogate: Terphenyl-d14	95%			9050227	9050227-BLK1	05/06/09 18:56
Surrogate: 2-Fluorobiphenyl	72%			9050227	9050227-BLK1	05/06/09 18:56
Surrogate: Nitrobenzene-d5	69%			9050227	9050227-BLK1	05/06/09 18:56

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

Work Order: NSE0094  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 05/01/09 08:00

**PROJECT QUALITY CONTROL DATA**  
**Duplicate**

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	% Rec.	Analyzed Date/Time
<b>General Chemistry Parameters</b>										
<b>9051163-DUP1</b>										
% Dry Solids	90.7	90.2		%	0.6	20	9051163	NSE0088-03		05/11/09 09:44

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

Work Order: NSE0094  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 05/01/09 08:00

**PROJECT QUALITY CONTROL DATA**  
**LCS**

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
<b>Selected Volatile Organic Compounds by EPA Method 8260B</b>								
<b>9050171-BS1</b>								
Benzene	50.0	45.4		ug/kg	91%	76 - 130	9050171	05/06/09 00:18
Ethylbenzene	50.0	39.8		ug/kg	80%	80 - 128	9050171	05/06/09 00:18
Naphthalene	50.0	53.2		ug/kg	106%	63 - 144	9050171	05/06/09 00:18
Toluene	50.0	41.0		ug/kg	82%	80 - 125	9050171	05/06/09 00:18
Xylenes, total	150	121		ug/kg	81%	79 - 130	9050171	05/06/09 00:18
Surrogate: 1,2-Dichloroethane-d4	50.0	59.5			119%	41 - 150	9050171	05/06/09 00:18
Surrogate: Dibromofluoromethane	50.0	52.5			105%	55 - 139	9050171	05/06/09 00:18
Surrogate: Toluene-d8	50.0	49.0			98%	57 - 148	9050171	05/06/09 00:18
Surrogate: 4-Bromofluorobenzene	50.0	52.3			105%	58 - 150	9050171	05/06/09 00:18

**Polyaromatic Hydrocarbons by EPA 8270D**

**9050227-BS1**

Acenaphthene	1.67	1.41	MNR	mg/kg wet	84%	52 - 106	9050227	05/06/09 19:19
Acenaphthylene	1.67	1.46	MNR	mg/kg wet	88%	53 - 109	9050227	05/06/09 19:19
Anthracene	1.67	1.65	MNR	mg/kg wet	99%	54 - 124	9050227	05/06/09 19:19
Benzo (a) anthracene	1.67	1.52	MNR	mg/kg wet	91%	53 - 111	9050227	05/06/09 19:19
Benzo (a) pyrene	1.67	1.48	MNR	mg/kg wet	89%	52 - 122	9050227	05/06/09 19:19
Benzo (b) fluoranthene	1.67	1.19	MNR	mg/kg wet	71%	48 - 115	9050227	05/06/09 19:19
Benzo (g,h,i) perylene	1.67	1.47	MNR	mg/kg wet	88%	46 - 114	9050227	05/06/09 19:19
Benzo (k) fluoranthene	1.67	1.36	MNR	mg/kg wet	82%	41 - 121	9050227	05/06/09 19:19
Chrysene	1.67	1.50	MNR	mg/kg wet	90%	49 - 113	9050227	05/06/09 19:19
Dibenz (a,h) anthracene	1.67	1.29	MNR	mg/kg wet	77%	47 - 117	9050227	05/06/09 19:19
Fluoranthene	1.67	1.46	MNR	mg/kg wet	87%	52 - 113	9050227	05/06/09 19:19
Fluorene	1.67	1.48	MNR	mg/kg wet	89%	54 - 107	9050227	05/06/09 19:19
Indeno (1,2,3-cd) pyrene	1.67	1.33	MNR	mg/kg wet	80%	47 - 115	9050227	05/06/09 19:19
Naphthalene	1.67	1.14	MNR	mg/kg wet	69%	34 - 107	9050227	05/06/09 19:19
Phenanthrene	1.67	1.44	MNR	mg/kg wet	86%	53 - 108	9050227	05/06/09 19:19
Pyrene	1.67	1.56	MNR	mg/kg wet	94%	54 - 113	9050227	05/06/09 19:19
1-Methylnaphthalene	1.67	1.04	MNR	mg/kg wet	63%	36 - 100	9050227	05/06/09 19:19
2-Methylnaphthalene	1.67	1.13	MNR	mg/kg wet	68%	42 - 112	9050227	05/06/09 19:19
Surrogate: Terphenyl-d14	1.67	1.52			91%	26 - 128	9050227	05/06/09 19:19
Surrogate: 2-Fluorobiphenyl	1.67	1.38			83%	19 - 109	9050227	05/06/09 19:19
Surrogate: Nitrobenzene-d5	1.67	1.11			67%	22 - 104	9050227	05/06/09 19:19

Client EEG - Env. Enterprisc Group (2449)  
 10179 Highway 78  
 Ladson, SC 29456  
 Attn Tom McElwcc

Work Order: NSE0094  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 05/01/09 08:00

**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
<b>Selected Volatile Organic Compounds by EPA Method 8260B</b>												
<b>9050171-BSD1</b>												
Benzene		46.0		ug/kg	50.0	92%	76 - 130	1	43	9050171		05/06/09 00:48
Ethylbenzene		39.9		ug/kg	50.0	80%	80 - 128	0.3	48	9050171		05/06/09 00:48
Naphthalene		54.2		ug/kg	50.0	108%	63 - 144	2	50	9050171		05/06/09 00:48
Toluene		40.5		ug/kg	50.0	81%	80 - 125	1	44	9050171		05/06/09 00:48
Xylenes, total		122		ug/kg	150	81%	79 - 130	0.5	48	9050171		05/06/09 00:48
Surrogate: 1,2-Dichloroethane-d4		59.2		ug/kg	50.0	118%	41 - 150			9050171		05/06/09 00:48
Surrogate: Dibromofluoromethane		52.3		ug/kg	50.0	105%	55 - 139			9050171		05/06/09 00:48
Surrogate: Toluene-d8		48.3		ug/kg	50.0	97%	57 - 148			9050171		05/06/09 00:48
Surrogate: 4-Bromofluorobenzene		51.8		ug/kg	50.0	104%	58 - 150			9050171		05/06/09 00:48

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

Work Order: NSE0094  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 05/01/09 08:00

**PROJECT QUALITY CONTROL DATA**  
**Matrix Spike**

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
<b>Selected Volatile Organic Compounds by EPA Method 8260B</b>										
<b>9050171-MS1</b>										
Benzene	ND	1.16		mg/kg dry	3.45	34%	33 - 146	9050171	NSE0094-06RE 1	05/06/09 08:52
Ethylbenzene	ND	1.11		mg/kg dry	3.45	32%	16 - 160	9050171	NSE0094-06RE 1	05/06/09 08:52
Naphthalene	0.179	1.35		mg/kg dry	3.45	34%	10 - 151	9050171	NSE0094-06RE 1	05/06/09 08:52
Toluene	ND	1.06		mg/kg dry	3.45	31%	30 - 145	9050171	NSE0094-06RE 1	05/06/09 08:52
Xylenes, total	0.197	3.37		mg/kg dry	10.3	31%	16 - 159	9050171	NSE0094-06RE 1	05/06/09 08:52
<i>Surrogate: 1,2-Dichloroethane-d4</i>		57.0		ug/kg	50.0	114%	41 - 150	9050171	NSE0094-06RE 1	05/06/09 08:52
<i>Surrogate: Dibromofluoromethane</i>		50.6		ug/kg	50.0	101%	55 - 139	9050171	NSE0094-06RE 1	05/06/09 08:52
<i>Surrogate: Toluene-d8</i>		46.8		ug/kg	50.0	94%	57 - 148	9050171	NSE0094-06RE 1	05/06/09 08:52
<i>Surrogate: 4-Bromofluorobenzene</i>		54.7		ug/kg	50.0	109%	58 - 150	9050171	NSE0094-06RE 1	05/06/09 08:52

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

Work Order: NSE0094  
 Project Name: Laurel Bay Housing Project  
 Project Number: [none]  
 Received: 05/01/09 08:00

**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
<b>Selected Volatile Organic Compounds by EPA Method 8260B</b>												
<b>9050171-MSD1</b>												
Benzene	ND	0.784	M8	mg/kg dry	3.45	23%	33 - 146	38	43	9050171	NSE0094-06RE	05/06/09 09:22
Ethylbenzene	ND	0.706		mg/kg dry	3.45	20%	16 - 160	44	48	9050171	NSE0094-06RE	05/06/09 09:22
Naphthalene	0.179	0.966		mg/kg dry	3.45	23%	10 - 151	33	50	9050171	NSE0094-06RE	05/06/09 09:22
Toluene	ND	0.696	M8	mg/kg dry	3.45	20%	30 - 145	41	44	9050171	NSE0094-06RE	05/06/09 09:22
Xylenes, total	0.197	2.16		mg/kg dry	10.3	19%	16 - 159	44	48	9050171	NSE0094-06RE	05/06/09 09:22
<i>Surrogate: 1,2-Dichloroethane-d4</i>		59.4		ug/kg	50.0	119%	41 - 150			9050171	NSE0094-06RE	05/06/09 09:22
<i>Surrogate: Dibromofluoromethane</i>		51.2		ug/kg	50.0	102%	55 - 139			9050171	NSE0094-06RE	05/06/09 09:22
<i>Surrogate: Toluene-d8</i>		46.6		ug/kg	50.0	93%	57 - 148			9050171	NSE0094-06RE	05/06/09 09:22
<i>Surrogate: 4-Bromofluorobenzene</i>		54.1		ug/kg	50.0	108%	58 - 150			9050171	NSE0094-06RE	05/06/09 09:22

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

Work Order: NSE0094  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 05/01/09 08:00

### CERTIFICATION SUMMARY

#### TestAmerica Nashville

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

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

Work Order: NSE0094  
Project Name: Laurel Bay Housing Project  
Project Number: [none]  
Received: 05/01/09 08:00

## DATA QUALIFIERS AND DEFINITIONS

**B** Analyte was detected in the associated Method Blank.  
**M8** The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).  
**MNR** No results were reported for the MS/MSD. The sample used for the MS/MSD required dilution due to the sample matrix. Because of this, the spike compounds were diluted below the detection limit.  
**RL1** Reporting limit raised due to sample matrix effects.  
**ND** Not detected at the reporting limit (or method detection limit if shown)

## METHOD MODIFICATION NOTES



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 289Birch, 289 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. L. White, 5/20/09  
(Name) (Date)

**Appendix C**  
**Regulatory Correspondence**



C. Earl Hunter, Commissioner

*Promoting and protecting the health of the public and the environment.*

July 22, 2009

Commanding Officer  
ATTN: S-4 NREAO (Craig Ehde)  
MCAS  
PO Box 55001  
Beaufort, SC 29904-5001

Re: MCAS – Laurel Bay Housing – 289 Birch St..  
**Site ID # 04226**  
UST Closure Reports received June 29, 2009  
No Further Action

Dear Mr. Ehde:

The Department has reviewed the referenced closure report. Based upon the geotechnical data in the referenced report, the soil samples are non-detect and/or below risk based screening levels.

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

Should you have any questions, please contact me at 803-896-4179 (office phone) or [cookejt@dhec.sc.gov](mailto:cookejt@dhec.sc.gov).

Sincerely,

Jan T. Cooke, Hydrogeologist  
AST Petroleum Restoration & Site Environmental Investigations Section  
Division of Site Assessment, Remediation & Revitalization  
Bureau of Land and Waste Management

B. Thomas Knight, Manager

cc: Region 8 District EQC