SUMMARY REPORT 77 ACORN DRIVE (FORMERLY 386 ACORN DRIVE) LAUREL BAY MILITARY HOUSING AREA MARINE CORPS AIR STATION BEAUFORT BEAUFORT, SC

> Revision: 0 Prepared for:

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

and



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

JUNE 2021

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Prepared by:



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

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



Summary Report 77 Acorn Drive (Formerly 386 Acorn Drive) Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort June 2021

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List of Acronyms

bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
СТО	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 77 Acorn Drive (Formerly 386 Acorn Drive). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

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

1.1 Background Information

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



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

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

In 2007, MCAS Beaufort began a voluntary program to remove the unregulated, residential 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 77 Acorn Drive (Formerly 386 Acorn Drive). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 386 Acorn Drive* (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 – July 2013* (Resolution Consultants, 2015). 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 29, 2009, a single 280 gallon heating oil UST was removed from the front grassed area adjacent to the driveway at 77 Acorn Drive (Formerly 386 Acorn Drive). 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 6'4" 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 77 Acorn Drive (Formerly 386 Acorn Drive) were greater than the SCDHEC RBSLs, which indicated further investigation was required. In a letter dated July 22, 2009, SCDHEC requested an IGWA for 77 Acorn Drive (Formerly 386 Acorn Drive) to determine if the groundwater was impacted by petroleum COPCs. SCDHEC's request letter is provided in Appendix D.

2.3 Groundwater Sampling

On July 16, 2013, a temporary monitoring well was installed at 77 Acorn Drive (Formerly 386 Acorn Drive), in accordance with the South Carolina Well Standards and Regulations (R.61-71.H-I, updated June 24, 2016). In order to provide data that can be used to determine whether COPCs are migrating to underlying groundwater, the monitoring well was placed in the same general location as the former heating oil UST. The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). Further details are provided in the *Initial Groundwater Investigation Report – July 2013* (Resolution Consultants, 2015).



The sampling strategy for this phase of the investigation required a one-time sampling event of the temporarily installed monitoring well. Following well installation and development, groundwater samples were collected using low-flow methods and shipped to an offsite laboratory for analysis of the petroleum COPCs. Upon completion of groundwater sampling, the temporary well was abandoned in accordance with the South Carolina Well Standards and Regulations R.61-71 (SCDHEC, 2016). Field forms are provided in the *Initial Groundwater Investigation Report – July 2013* (Resolution Consultants, 2015).

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 77 Acorn Drive (Formerly 386 Acorn Drive) 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 77 Acorn Drive (Formerly 386 Acorn Drive). This NFA determination was obtained in a letter dated August 6, 2015. 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 386 Acorn Drive, Laurel Bay Military Housing Area*, June 2009.
- Resolution Consultants, 2015. *Initial Groundwater Investigation Report July 2013 for Laurel Bay Military Housing Area, Multiple Properties, Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort, Beaufort, South Carolina*, June 2015.
- 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 77 Acorn Drive (Formerly 386 Acorn Drive) Laurel Bay Military Housing Area Marine Corps Air Station Beaufort Beaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Results Sample Collected 04/29/09	
Volatile Organic Compounds Analyz	ed by EPA Method 8260B (mg/kg)		
Benzene	0.003	ND	
Ethylbenzene	1.15	0.00712	
Naphthalene	0.036	0.163	
Toluene	0.627	ND	
Xylenes, Total	13.01	0.00660	
Semivolatile Organic Compounds Ar	nalyzed 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 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 - 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 2Laboratory Analytical Results - Groundwater77 Acorn Drive (Formerly 386 Acorn Drive)Laurel Bay Military Housing AreaMarine Corps Air Station BeaufortBeaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Site-Specific Groundwater VISLs (µg/L) ⁽²⁾	Results Sample Collected 07/16/13	
Volatile Organic Compounds Analyze	ed by EPA Method 8260B (µg	/L)		
Benzene	5	16.24	ND	
Ethylbenzene	700	45.95	ND	
Naphthalene	25	29.33	3.2	
Toluene	1000	105,445	ND	
Xylenes, Total	10,000	2,133	ND	
Semivolatile Organic Compounds An	alyzed by EPA Method 8270	D (µg/L)		
Benzo(a)anthracene	10	NA	0.17	
Benzo(b)fluoranthene	10	NA	ND	
Benzo(k)fluoranthene	10	NA	ND	
Chrysene	10	NA	ND	
Dibenz(a,h)anthracene	10	NA	ND	

Notes:

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

⁽²⁾ Site-specific groundwater VISLs were calculated using the EPA JE Model Spreadsheets (Version 3.1, February 2004) and conservative modeling inputs representative of a small single-story house with an 8 foot ceiling. Site-specific groundwater VISLs were developed based on a target risk level of 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





Appendix A - Multi-Media Selection Process for LBMH

Appendix B UST Assessment Report



Attachment 1

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

Date Received State Us	se Only OA35 I. OWNERSHIP O	SITE ASSESSMENT, REMEDIATION &
	anding Officer Attn: NRE ndividual, Public Agency, Other)	CAO (Craig Ehde)
Mailing Address Beaufort,	South Carolina	29904-5001
City 843 Area Code	State 228-7317 Telephone Number	Zip Code Craig Ehde Contact Person

II. SITE IDENTIFICATION AND LOCATION

Permit I.D. #	
Laurel Bay Mil	itary Housing Area, Marine Corps Air Station, Beaufort, SC
Facility Name or Com	pany Site Identifier
386 Acorn Dr.	, Laurel Bay Military Housing Area
Street Address or State	e Road (as applicable)
Beaufort,	Beaufort
City	County

ſ

Attachment 2

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. <u>This section must be completed.</u>

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)	Heating oil
B.	Capacity(ex. 1k, 2k)	280 gal
C.	Age	Late 1950s
D.	Construction Material(ex. Steel, FRP)	Steel
E.	Month/Year of Last Use	Mid 1980s
F.	Depth (ft.) To Base of Tank	6'4"
G.	Spill Prevention Equipment Y/N	No
H.	Overfill Prevention Equipment Y/N	No
I.	Method of Closure Removed/Filled	Removed
J.	Date Tanks Removed/Filled	4/29/09
K.	Visible Corrosion or Pitting Y/N	Yes
L.	Visible Holes Y/N	Yes

386Acorn

M. Method of disposal for any USTs removed from the ground (attach disposal manifests) UST 386Acorn was removed from the ground and disposed of at a subtitle D landfill. See Appendix "A."

N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests) <u>Tank was abandoned and mostly filled with sand by others.</u> However, it did contain some fluid which was pumped from it and <u>disposed of by MCAS.</u>

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

		386 Acorn
		Steel &
A.	Construction Material(ex. Steel, FRP)	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	Late 1950s
I.	If any corrosion, pitting, or holes were observed, de	scribe 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.

VIII. BRIEF SITE DESCRIPTION AND HISTORY

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

IX. SITE CONDITIONS

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

,

X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 96012001

B.

						ومستعدين المستعدين	
Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
386Acorn	Excav at fill end	Soil	Sandy	6'4"	4/29/09 1115 hrs	P. Shaw	
						-	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20					· · · · · · · · · · · · · · · · · · ·		

* = Depth Below the Surrounding Land Surface

XI. SAMPLING METHODOLOGY

Provide a detailed description of the methods used to collect <u>and</u> 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.

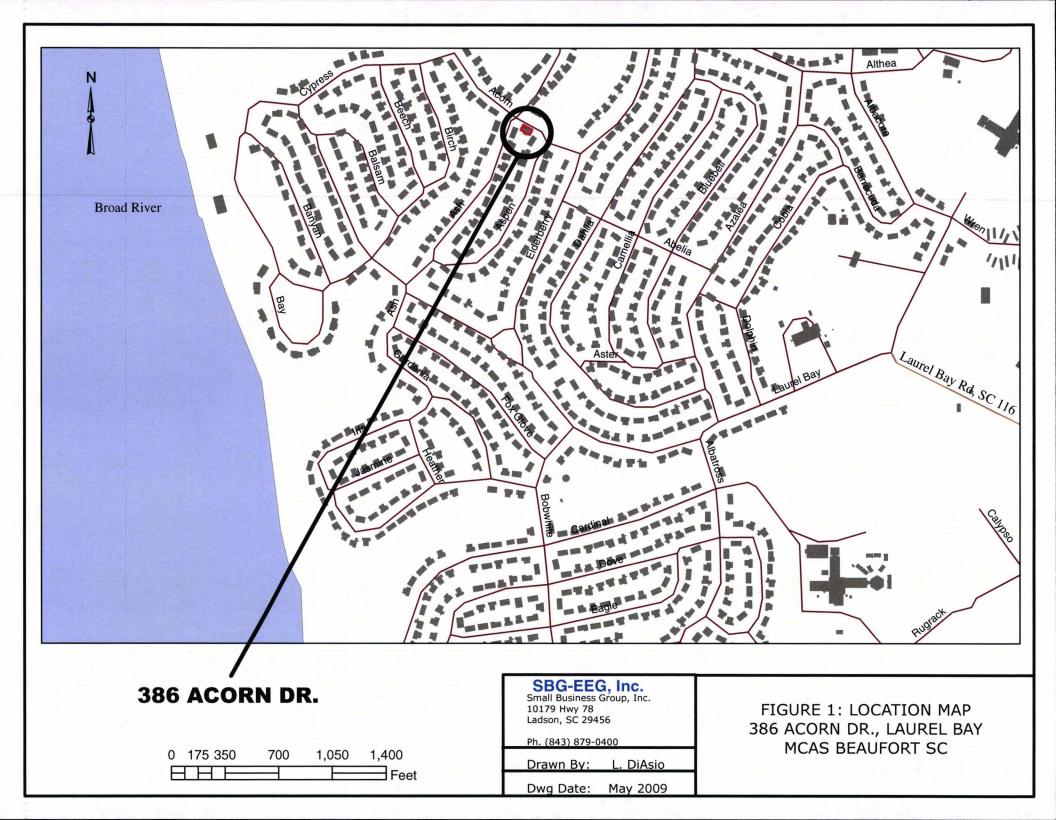
XII. RECEPTORS

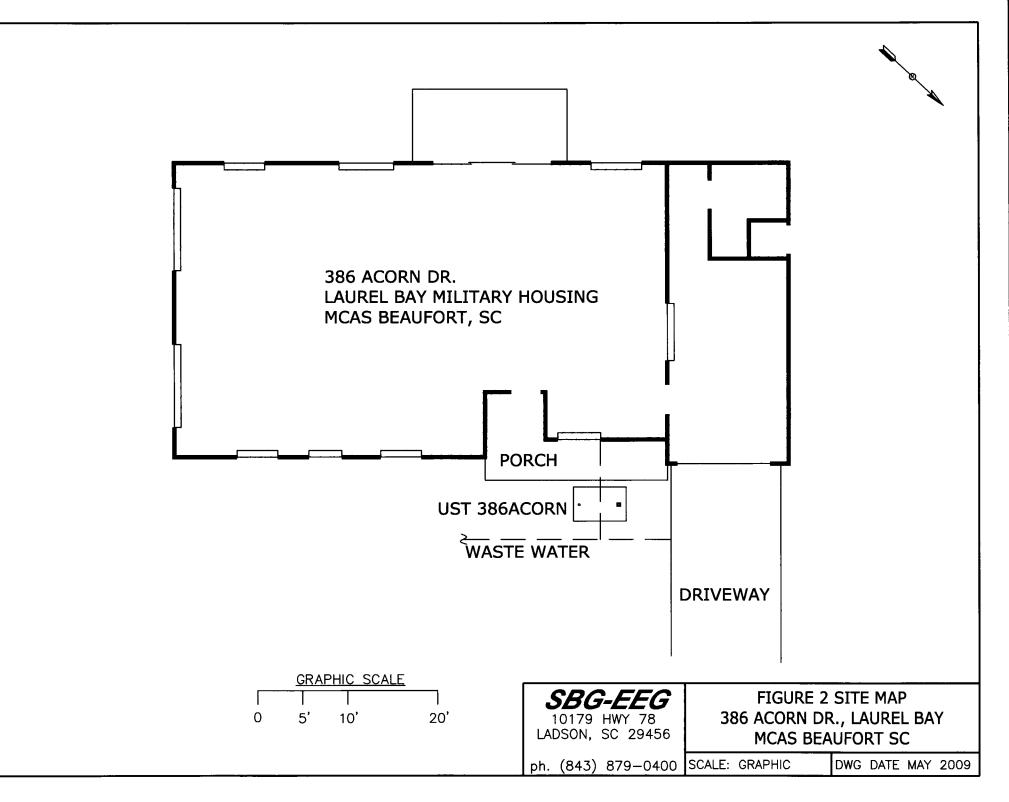
		Yes	No
А.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?		x
	If yes, indicate type of receptor, distance, and direction on site map.		
B.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?		Х
	If yes, indicate type of well, distance, and direction on site map.		
C.	Are there any underground structures (e.g., basements) Located within 100 feet of the UST system?		х
	If yes, indicate type of structure, distance, and direction on site map.		
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.	X*	
	If yes, indicate the type of utility, distance, and direction on the site map.		
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?		х
	If yes, indicate the area of contaminated soil on the site map.		

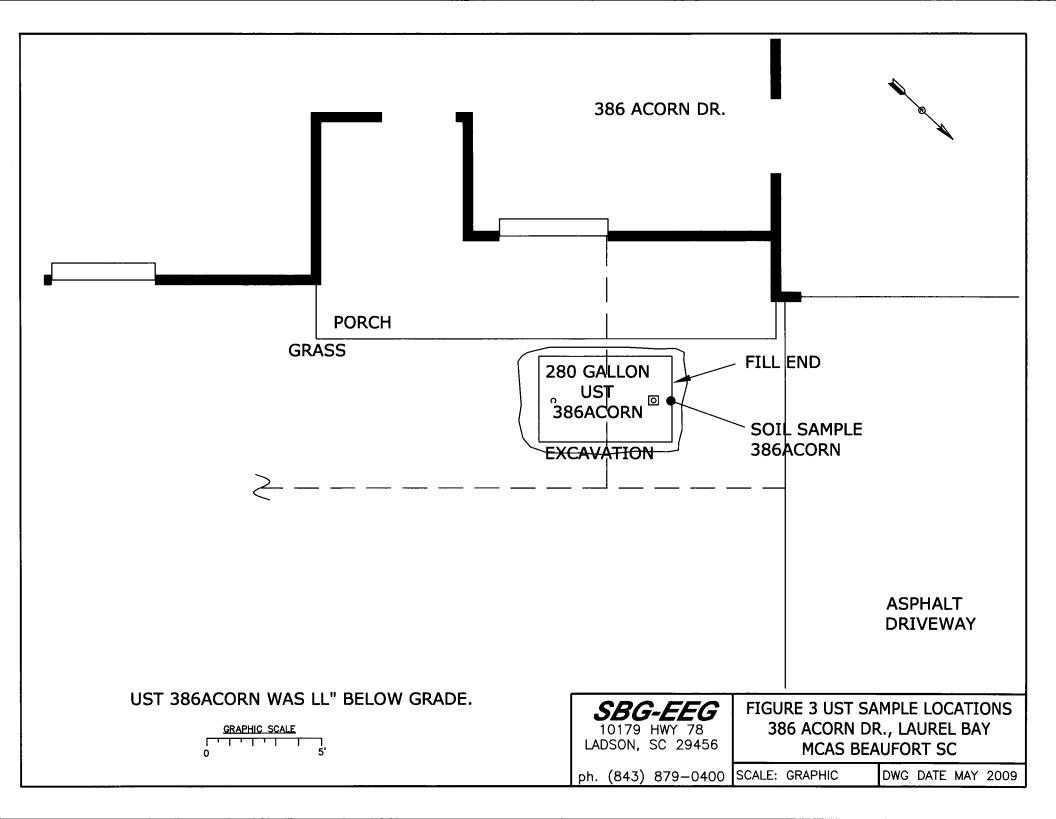
XIII. SITE MAP

You must supply a <u>scaled</u> 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)







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	386 Acorn	
Benzene	ND	
Toluene	ND	
Ethylbenzene	0.00712 mg/kg	
Xylenes	0.00660 mg/kg	
Naphthalene	0.163 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				
МТВЕ	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) <u>TestAmerica</u>

THE LEADER IN ENVIRONMENTAL TESTING

May 15, 2009 1:45:00PM

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

SAMPLE IDENTIFICATION

295 Birch-1 295 Birch-2 289 Birch 386 Acorn 397 Acorn-1 397 Acorn-2

LAB NUMBER

Work Order:

Project Name:

Date Received:

Project Nbr:

P/O Nbr:

NSE0094-01 NSE0094-02 NSE0094-03 NSE0094-04 NSE0094-05 NSE0094-06 NSE0094 Laurel Bay Housing Project [none] 0829 05/01/09

1BER	COLLECTION DATE AND TIME
4-01	04/27/09 10:45
4-02	04/27/09 13:00
4-03	04/28/09 11:30
4-04	04/29/09 11:15
4-05	04/30/09 10:30
4-06	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.

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

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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:

Kenne & Hage

Ken A. Hayes Senior Project Manager

<u>TestAmerica</u>

THE LEADER IN ENVIRONMENTAL TESTING

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

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSE0094-01 (295 Bire	ch-1 - Soil) Sam	pled: 04/	27/09 10:45					
General Chemistry Parameters								
% Dry Solids	81.6		%	0.500	1	05/11/09 09:44	SW-846	9051163
Selected Volatile Organic Compounds	s 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	В	mg/kg dry	0.00511	1	05/06/09 05:20	SW846 8260B	9050171
Toluene	ND	В	mg/kg dry	0.00205	1	05/06/09 05:20	SW846 8260B	9050171
Xylenes, total	ND	В	mg/kg dry	0.00511	1	05/06/09 05:20	SW846 8260B	9050171
Surr: 1,2-Dichloroethane-d4 (41-150%)	116 %					05/06/09 05:20	SW846 8260B	9050171
Surr: Dibromofluoromethane (55-139%)	102 %					05/06/09 05:20	SW846 8260B	9050171
Surr: Toluene-d8 (57-148%)	96 %					05/06/09 05:20	SW846 8260B	9050171
Surr: 4-Bromofluorobenzene (58-150%)	107 %					05/06/09 05:20	SW846 8260B	9050171
Polyaromatic Hydrocarbons by EPA 8	270D							
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
Surr: Terphenyl-d14 (26-128%)	56 %				-	05/08/09 12:51	SW846 8270D	9050227
Surr: 2-Fluorobiphenyl (19-109%)	50 %					05/08/09 12:51	SW846 8270D	9050227
Surr: Nitrobenzene-d5 (22-104%)	48 %					05/08/09 12:51	SW846 8270D	9050227

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Client EEG - Env. Enterprise Group (2449) 10179 Highway 78

Ladson, SC 29456

Tom McElwee

Attn

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

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSE0094-02 (295 Birc	h-2 - Soil) Sam	pled: 04/	27/09 13:00					
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	В	mg/kg dry	0.00548	1	05/06/09 05:51	SW846 8260B	9050171
Toluene	ND	В	mg/kg dry	0.00219	1	05/06/09 05:51	SW846 8260B	9050171
Xylenes, total	ND	В	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 82	270D							
Acenaphthene	ND		mg/kg dry	0.0888	1	05/07/09 19:29	SW846 8270D	9050227
Acenaphthylene	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

<u>TestAmerica</u>

THE LEADER IN ENVIRONMENTAL TESTING

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

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSE0094-03 (289 Birc	h - Soil) Samı	oled: 04/28	8/09 11:30					
General Chemistry Parameters								
% Dry Solids	84.8		%	0.500	1	05/11/09 09:44	SW-846	9051163
Selected Volatile Organic Compounds	by EPA Metho	d 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	В	mg/kg dry	0.00491	1	05/06/09 06:21	SW846 8260B	9050171
Toluene	ND	В	mg/kg dry	0.00196	1	05/06/09 06:21	SW846 8260B	9050171
Xylenes, total	ND	В	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 8	270D							
Acenaphthene	ND	RLI	mg/kg dry	0.395	5	05/08/09 13:20	SW846 8270D	9050227
Acenaphthylene	ND	RLI	mg/kg dry	0.395	5	05/08/09 13:20	SW846 8270D	9050227
Anthracene	ND	RLI	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	RLI	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	RLI	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
Naphthalenc	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
l-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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

EEG - Env. Enterprise Group (2449) Client 10179 Highway 78

Ladson, SC 29456

Tom McElwee

Attn

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

					Dilution	Analysis		
Analyte	Result	Flag	Units	MRL	Factor	Date/Time	Method	Batch
Sample ID: NSE0094-04 (386 Aco	rn - Soil) Samp	oled: 04/2	9/09 11:15					
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
Naphthalenc	0.163	В	mg/kg dry	0.00549	1	05/06/09 06:51	SW846 8260B	9050171
Toluene	ND	В	mg/kg dry	0.00220	1	05/06/09 06:51	SW846 8260B	9050171
Xylenes, total	0.00660	В	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 8	270D							
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

THE LEADER IN ENVIRONMENTAL TESTING

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
Sample ID: NSE0094-05 (397 Acor	rn-1 - Soil) San	npled: 04	/30/09 10:30					
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	В	mg/kg dry	0.00542	1	05/06/09 07:21	SW846 8260B	9050171
Toluene	ND	В	mg/kg dry	0.00217	1	05/06/09 07:21	SW846 8260B	9050171
Xylenes, total	ND	В	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 82	270D							
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
I-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

THE LEADER IN ENVIRONMENTAL TESTING

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
Sample ID: NSE0094-06 (397 Aco	rn-2 - Soil) Sa	mpled: 04	/30/09 11:40					
General Chemistry Parameters								
% Dry Solids	79.3		%	0.500	1	05/11/09 09:44	SW-846	9051163
Selected Volatile Organic Compounds	by EPA Metho	d 8260B						
Benzene	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
Naphthalene	0.00619	В	mg/kg dry	0.00536	1	05/06/09 07:51	SW846 8260B	9050171
Toluene	ND	В	mg/kg dry	0.00214	1	05/06/09 07:51	SW846 8260B	9050171
Xylenes, total	ND	В	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 8	270D							
Acenaphthene	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
Acenaphthylene	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
Anthracene	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
Benzo (a) anthracene	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
Benzo (a) pyrene	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
Benzo (b) fluoranthene	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
Benzo (g,h,i) perylene	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
Benzo (k) fluoranthene	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
Chrysene	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
Dibenz (a,h) anthracene	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
Fluoranthene	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
Fluorene	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
Indeno (1,2,3-cd) pyrene	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
Naphthalene	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
Phenanthrene	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
Pyrene	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
1-Methylnaphthalene	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
2-Methylnaphthalene	ND	RL1	mg/kg dry	0.411	5	05/08/09 14:20	SW846 8270D	9050227
Surr: Terphenyl-d14 (26-128%)	40 %		5 6 7	-		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

THE LEADER IN ENVIRONMENTAL TESTING

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

Client	EEG - Env. Enterprise Group (2449)	Work Order:	NSE0094
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[nonc]
Attn	Tom McElwcc	Received:	05/01/09 08:00

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
Polyaromatic Hydrocarbons by EPA	8270D						
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
Selected Volatile Organic Compound	ls by EPA Method	8260B					
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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client	EEG - Env. Enterprise Group (2449)	Work Order:	NSE0094
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	05/01/09 08:00
		<u>, , , , , , , , , , , , , , , , , , , </u>	

PROJECT QUAL	ITY CONTROL Blank	DATA	

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Selected Volatile Organic Comp	ounds by EPA Method	l 8260B				
9050171-BLK1						
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	В	mg/kg wet	9050171	9050171-BLK1	05/06/09 02:19
Toluene	0.00107	В	mg/kg wet	9050171	9050171-BLK1	05/06/09 02:19
Xylenes, total	0.00284	В	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 B	EPA 8270D					
9050227-BLK1						
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
i-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

THE LEADER IN ENVIRONMENTAL TESTING

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

 Client
 EEG - Env. Enterprise Group (2449)
 Work Order:
 NSE0094

 10179 Highway 78
 Project Name:
 Laurel Bay Housing Project

 Ladson, SC 29456
 Project Number:
 [none]

 Attn
 Tom McElwee
 Received:
 05/01/09 08:00

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

THE LEADER IN ENVIRONMENTAL TESTING

 Client
 EEG - Env. Enterprise Group (2449)
 Work Order:
 NSE0094

 10179 Highway 78
 Project Name:
 Laurel Bay Housing Project

 Ladson, SC 29456
 Project Number:
 [none]

 Attm
 Tom McElwee
 05/01/09 08:00

PROJECT QUALITY CONTROL DATA LCS								
Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Selected Volatile Organic Compour	nds by EPA Method 82	60B						
9050171-BS1								
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 EP.	A 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

THE LEADER IN ENVIRONMENTAL TESTING

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

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Selected Volatile Organic Comp	ounds by EPA M	lethod 826	50 B									
9050171-BSD1												
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

THE LEADER IN ENVIRONMENTAL TESTING

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

1

THE LEADER IN ENVIRONMENTAL TESTING

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 Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Selected Volatile Organic Compou	nds by EPA	Method 82	60B									
9050171-MSD1 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	1 NSE0094-06RE	05/06/09 09:22
Naphthalene	0.179	0.966		mg/kg dry	3.45	23%	10 - 151	33	50	9050171	1 NSE0094-06RE	05/06/09 09:22
Toluene	ND	0.696	M8	mg/kg dry	3.45	20%	30 - 145	41	44	9050171	l NSE0094-06RE	05/06/09 09:22
Xylenes, total	0.197	2.16		mg/kg dry	10.3	19%	16 - 159	44	48	9050171	I NSE0094-06RE	05/06/09 09:22
Surrogate: 1,2-Dichloroethane-d4		59.4		ug/kg	50.0	119%	41 - 150			9050171	l NSE0094-06RE	05/06/09 09:22
Surrogate: Dibromofluoromethane		51.2		ug/kg	50.0	102%	55 - 139			9050171	1 NSE0094-06RE	05/06/09 09:22
Surrogate: Toluene-d8		46.6		ug/kg	50.0	93%	57 - 148			9050171	1 NSE0094-06RE	05/06/09 09:22
Surrogate: 4-Bromofluorobenzene		54.1		ug/kg	50.0	108%	58 - 150			9050171	1 NSE0094-06RE 1	05/06/09 09:22

THE LEADER IN ENVIRONMENTAL TESTING

Client	EEG - Env. Enterprise Group (2449)	Work Order:	NSE0094
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	05/01/09 08:00

TestAmerica Nashville

CERTIFICATION SUMMARY

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

THE LEADER IN ENVIRONMENTAL TESTING

Client	EEG - Env. Enterprise Group (2449)	Work Order:	NSE0094
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	05/01/09 08:00

DATA QUALIFIERS AND DEFINITIONS

]	3	Analyte	was	detected	in t	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

NSE0094 05/15/09 23:59

		Nashville 2960 Fos Nashville	ter Cre	ighto	'n			٦		Free:	: 800	5-72(0-76) 5-72(5-09	80							meth		this wo	rk bein	roper ai g condu					
Client Name/Account #:	EEG # 2449																							Complia	ance Mo	onitorin	ıg?	Yes	<u>، </u>	_ No
Address:	10179 Highway	78														<u> </u>								Enfor	cement	Action	?	Ye	s	_ No
City/State/Zip:	Ladson, SC 29	456														-			Site	State										
Project Manager:	Tom McElwee	email: mceh	vee@e	eginc.r	net							_								PO#	<u></u>	08	<u>(2</u>)	9	<u></u>					
Telephone Number:	And the second s					F	ax N	o.: _	84	3 -	8	179	-	<u>04</u>	FO.	1			TA QI	Jote #						<u> </u>				
Sampler Name: (Print)	TRA	11, 3	ha	<u>v</u>															Proj	ect ID:	Laure	I Bay H	lousing	Projec	<u>.t</u>			<u> </u>		
Sampler Signature:	P{/	<u>y</u> _	<u> </u>												-				Pro	ject #					<u></u>					
		1							Pres	ervat	ive		3		M	atrix			- 117				A	nalyze	For:					
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ATTACHMENT A



NON-HAZARDOUS MANIFEST

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	I certify, on behalf of the above listed treatm														ste
20. Facitility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.	20. Facitility Owner or Operator: Certification of receipt of non-baza	ardous mate	rials cove	vd here	this me	nifest	. <u>.</u>								
_Printed/Typed Name Signature / // / / / / Month Day Ye	_Printed/Typed Name				M^{Λ}	A.N	3-1			•	· · · · · ·			onth Day	Year
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#2 - GENERATOR #1 COPY

Appendix C Laboratory Analytical Report - Groundwater



Client: AECOM - Res	olution Consultants						Laboratory ID:	OG17010-	001				
Description: BEALB386TW	01WG20130716				Matrix: Aqueous								
Date Sampled: 07/16/2013 12	00												
Date Received: 07/17/2013													
Run Prep Method 1 5030B	Analytical Method 8260B	Dilution 1	Analysis D 07/20/2013		Prep Da	ate	Batch 25513						
Parameter			CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run		
Benzene			71-43-2	8260B	ND		0.50	0.25	0.027	ug/L	1		
Ethylbenzene		1	100-41-4	8260B	ND		0.50	0.25	0.17	ug/L	1		
Naphthalene			91-20-3	8260B	3.2		0.50	0.25	0.12	ug/L	1		
Toluene		1	108-88-3	8260B	ND		0.50	0.25	0.17	ug/L	1		
Xylenes (total)		13	330-20-7	8260B	ND		0.50	0.25	0.17	ug/L	1		
Surrogate	Q	Run 1 % Recove											
1,2-Dichloroethane-d4		95	70-1	20									
Toluene-d8		91	85-1	20									
Bromofluorobenzene		98	75-1	20									
Dibromofluoromethane		96	85-1	15									

 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 ar reported on a dry weight basis unless flagged with a "W"
 S = MS/MSD failure

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

Level 1 Report v2.1

Client: AECOM - Re	solution Consultants					La	boratory I	D: OG17010-0	01		
Description: BEALB386TV	V01WG20130716						Matr	ix: Aqueous			
Date Sampled: 07/16/2013 1	200										
Date Received: 07/17/2013											
Run Prep Method 2 3520C	Analytical Method 8270D	Dilution 1	Analysis Da 07/24/2013 1		Prep D 07/23/20)ate)13 1012	Batch 25626				
Parameter			CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
Benzo(a)anthracene			56-55-3	8270D	0.17	J	0.21	0.10	0.085	ug/L	2
Benzo(b)fluoranthene		2	205-99-2	8270D	ND		0.21	0.10	0.090	ug/L	2
Benzo(k)fluoranthene		2	207-08-9	8270D	ND		0.21	0.10	0.095	ug/L	2
Chrysene		2	218-01-9	8270D	ND		0.21	0.10	0.056	ug/L	2
Dibenzo(a,h)anthracene			53-70-3	8270D	ND		0.21	0.10	0.060	ug/L	2
Surrogate	Q	Run 2 % Recove		ce							
2-Fluorobiphenyl		67	50-11)							
Nitrobenzene-d5		67	40-110)							
Terphenyl-d14		52	50-13	5							

 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
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 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
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Appendix D 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 – 386 Acorn St. **Site ID # 04235** UST Closure Reports received June 29, 2009 Beaufort County

Dear Mr. Ehde:

The purpose of this letter is to verify a release of fuel oil at the referenced residence. According to information received by the Department, the source of the release is from past onsite use of fuel oil USTs. To date, initial activities by the facility have included tank removal and soil sampling. Based on the information contained in the closure report, a potential violation of the South Carolina Pollution Control Act has occurred in that there has been an unauthorized release of petroleum to the environment.

Additional assessment activities are required for this site. Specifically the Department requests that a groundwater sample be collected from this site. Please note, the Department approved a groundwater-sampling proposal for Laurel Bay submitted by MCAS under separate cover dated 16 June 2008.

Should you have any questions, please contact me at 803-896-4179 (office phone), 803-896-6245 (fax) or cookejt@dhec.sc.gov.

Sincerely, Cak

Jan T. Cooke, Hydrogeologist AST Petroleum Restoration & Site Environmental Investigations Section Land Revitalization Division Bureau of Land and Waste Management SC Dept. of Health & Environmental Control

cc: Region 8 District EQC Tri-Command Communities; Attn: Mr. Robert Bible; 600 Laurel Bay Road Beaufort, SC 29906 Technical File



Catherine E. Heigel, Director Promoting and protecting the health of the public and the environment

> Division of Waste Management Bureau of Land and Waste Management

August 6, 2015

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

RE: Approval Response to Comments and Concurrence with Final Initial Groundwater Investigation Report-July 2013 Laurel Bay Military Housing Area Multiple Properties Dated June 2015

Dear Mr. Drawdy,

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

Per the Department's request, groundwater samples were collected from the attached referenced addresses. The Department reviewed the groundwater data and previous investigations and it agrees with the conclusions and recommendations included in the document. To further assess the impact to groundwater, permanent wells should be installed at the 10 stated addresses. For the remaining 25 addresses, there is no indication of contamination on the property and therefore no further investigation is required at this time.

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

If you have any questions, please contact me at petruslb@dhec.sc.gov or 803-898-0294.

Sincerely,

FIRT

Laurel Petrus RCRA Federal Facilities Section

Attachment: Specific Property Recommendations

Cc: Russell Berry, EQC Region 8 (via email) Shawn Dolan, Resolution Consultants (via email) Bryan Beck, NAVFAC MIDATLANTIC (via email) Craig Ehde (via email) Attachment to: Petrus to Drawdy Subject: Draft Final Initial Groundwater Investigation Report-July 2013 Specifice Property Recommendations Dated August 6, 2015

Draft Final Initial Groundwater Investigation Report for (35 addresses/38 tanks)

	ing Well Investigation recommendation (10 addresses/11 tanks)
19 Banyan	156 Laurel Bay
128 Banyan	1033 Foxglove
132 Banyan	1055 Gardenia
135 Birch	1059 Gardenia
148 Laurel Bay	1168 Jasmine
No Furt	her Action recommendation (25 addresses/27 tanks):
115 Banyan	386 Acorn
16 Banyan	395 Acorn
120 Banyan	399 Acom
124 Banyan	1021 Foxglove
125 Banyan	1027 Foxglove
136 Birch	1030 Foxglove
40 Laurel Bay	1032 Foxglove
144 Laurel Bay	1053 Gardenia
152 Laurel Bay	1058 Gardenia
60 Cypress	1061 Gardenia
263 Beech	1166 Jasmine
	1169 Jasmine
269 Birch	1107 Jasinine