

SUMMARY REPORT
633 WEST LAUREL BAY BOULEVARD (FORMERLY 488 WEST LAUREL BAY BOULEVARD)
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

Table of Contents

1.0	INTRODUCTION.....	1
1.1	BACKGROUND INFORMATION.....	1
1.2	UST REMOVAL AND ASSESSMENT PROCESS.....	2
2.0	SAMPLING ACTIVITIES AND RESULTS.....	3
2.1	UST REMOVAL AND SOIL SAMPLING	3
2.2	SOIL ANALYTICAL RESULTS.....	4
3.0	PROPERTY STATUS	4
4.0	REFERENCES.....	4

Table

Table 1	Laboratory Analytical Results - Soil
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Appendices

Appendix A	Multi-Media Selection Process for LBMH
Appendix B	UST Assessment Report
Appendix C	Regulatory Correspondence

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 633 West Laurel Bay Boulevard (Formerly 488 West Laurel Bay Boulevard). 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 633 West Laurel Bay Boulevard (Formerly 488 West Laurel Bay Boulevard). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 488 West Laurel Bay Boulevard* (MCAS Beaufort, 2009). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On June 30, 2009, a single 280 gallon heating oil UST was removed from the landscaped area adjacent to the driveway at 633 West Laurel Bay Boulevard (Formerly 488 West Laurel Bay Boulevard). The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). The UST was removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of the UST was 6'1" 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 633 West Laurel Bay Boulevard (Formerly 488 West Laurel Bay Boulevard) 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 633 West Laurel Bay Boulevard (Formerly 488 West Laurel Bay Boulevard). This NFA determination was obtained in a letter dated February 17, 2010. 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 – 488 West Laurel Bay Boulevard, Laurel Bay Military Housing Area*, October 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
633 West Laurel Bay Boulevard (Formerly 488 West Laurel Bay Boulevard)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Results Sample Collected 06/30/09
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)		
Benzene	0.003	ND
Ethylbenzene	1.15	ND
Naphthalene	0.036	ND
Toluene	0.627	ND
Xylenes, Total	13.01	ND
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (mg/kg)		
Benzo(a)anthracene	0.66	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

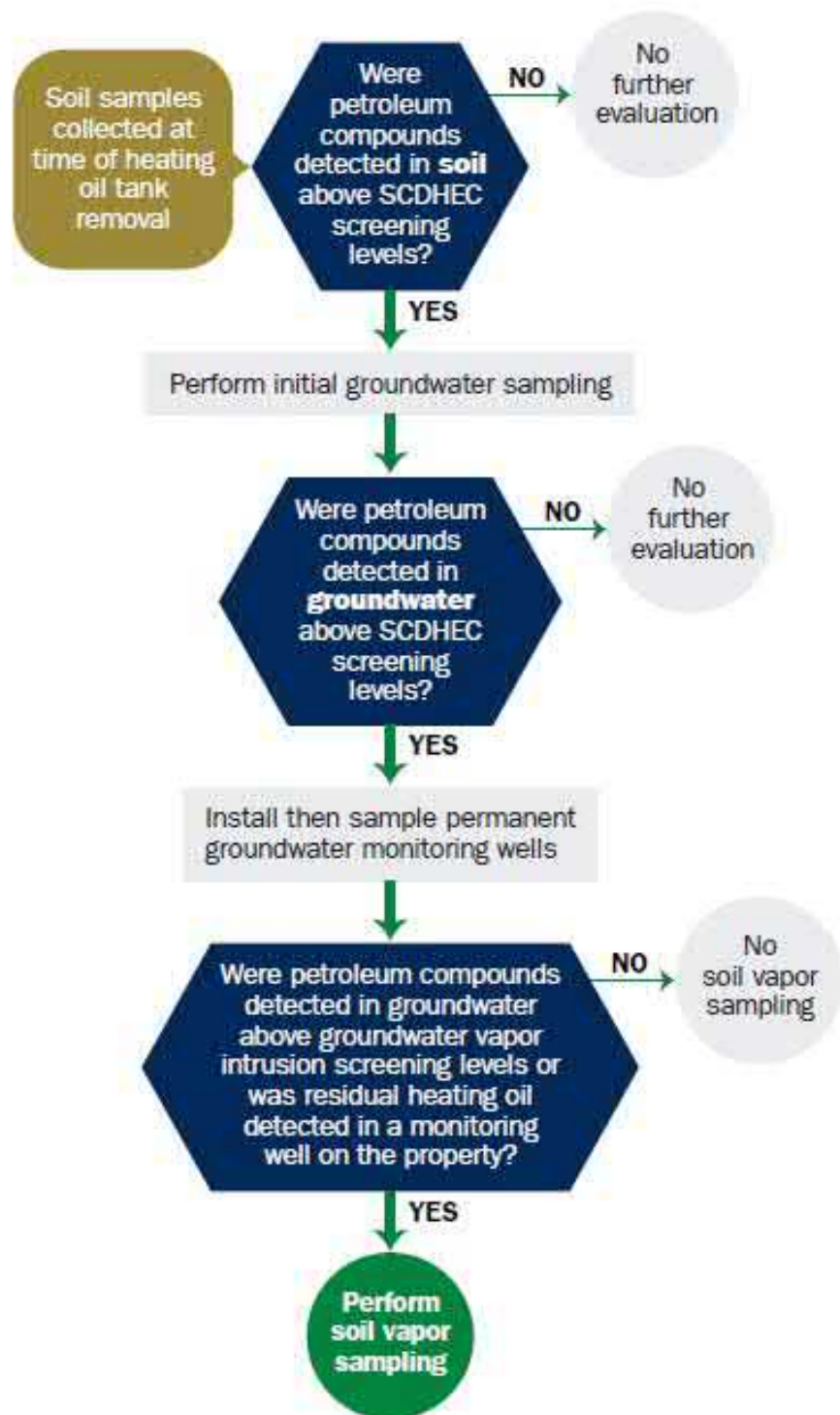
mg/kg - milligram per kilogram

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

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	
488 Laurel Bay Blvd., 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

- 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.....

488LaurelBay				
Heating oil				
280 gal				
Late 1950s				
Steel				
Mid 1980s				
6'1"				
No				
No				
Removed				
6/30/09				
Yes				
Yes				

- M. Method of disposal for any USTs removed from the ground (attach disposal manifests)
UST 488LaurelBay was removed from the ground and disposed of at a
Subtitle "D" landfill. See Attachment "A."
-
- N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests)
UST 488LaurelBay had been previously filled with sand by others.
-
- O. If any corrosion, pitting, or holes were observed, describe the location and extent for each UST
Corrosion, pitting and holes were found through out the tank.
-

VII. PIPING INFORMATION

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

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

C. Number of Dispensers.....

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

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

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

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

H. Age.....

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

488LaurelBay				
Steel & Copper				
N/A				
N/A				
Suction				
Yes				
Yes				
No				
Late 1950s				

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

VIII. BRIEF SITE DESCRIPTION AND HISTORY

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

IX. SITE CONDITIONS

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

X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 96012001

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
488 LaurelBy	Excav at fill end	Soil	Sandy	6'1"	6/30/09 0945 hrs	P. Shaw	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

* = Depth Below the Surrounding Land Surface

XI. SAMPLING METHODOLOGY

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

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

XII. RECEPTORS

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

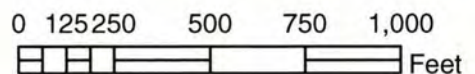
XIII. SITE MAP

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

(Attach Site Map Here)



488 LAUREL BAY BLVD.



SBG-EEG, Inc.

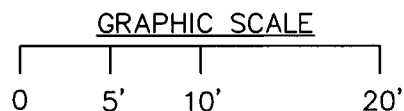
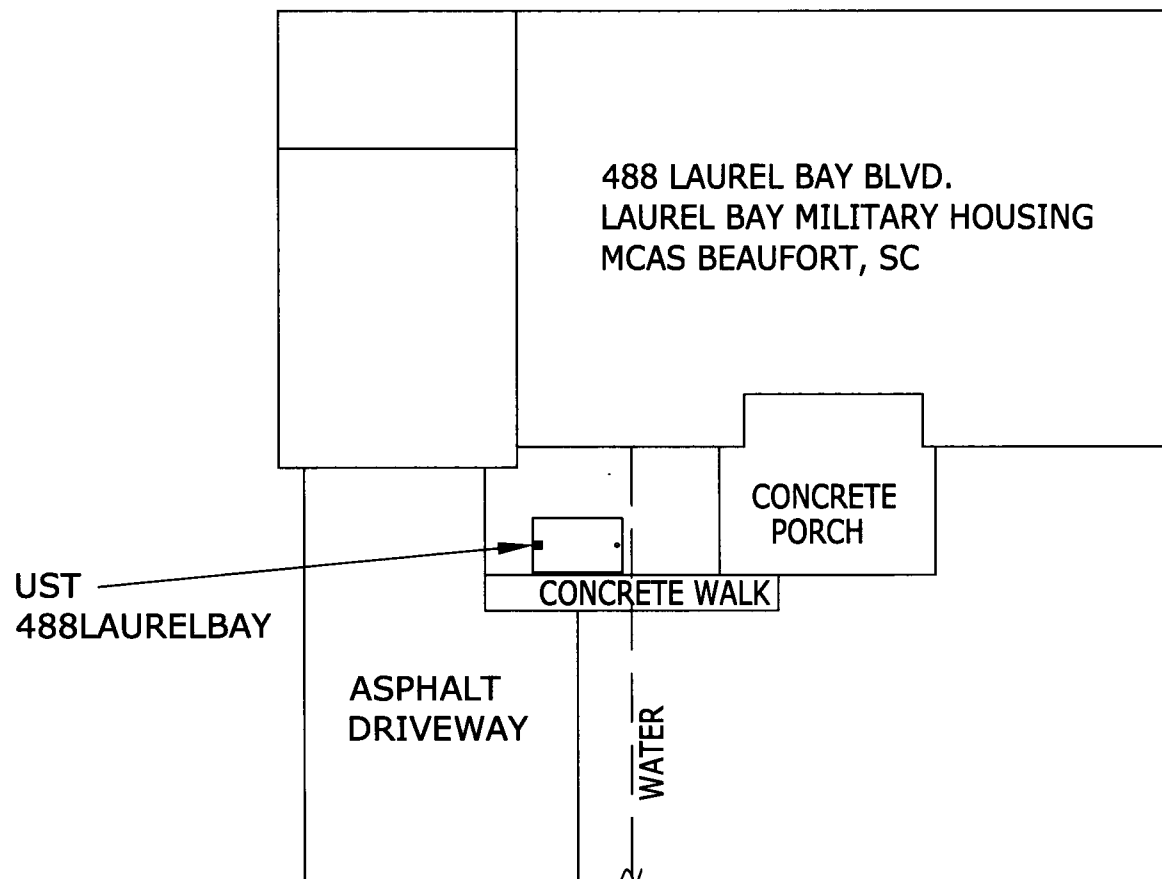
Small Business Group, Inc.
10179 Hwy 78
Ladson, SC 29456

Ph. (843) 879-0400

Drawn By: L. DiAsio

Dwg Date: July 2009

FIGURE 1: LOCATION MAP
488 LAUREL BAY BLVD., LAUREL BAY
MCAS BEAUFORT SC



SBG-EEG

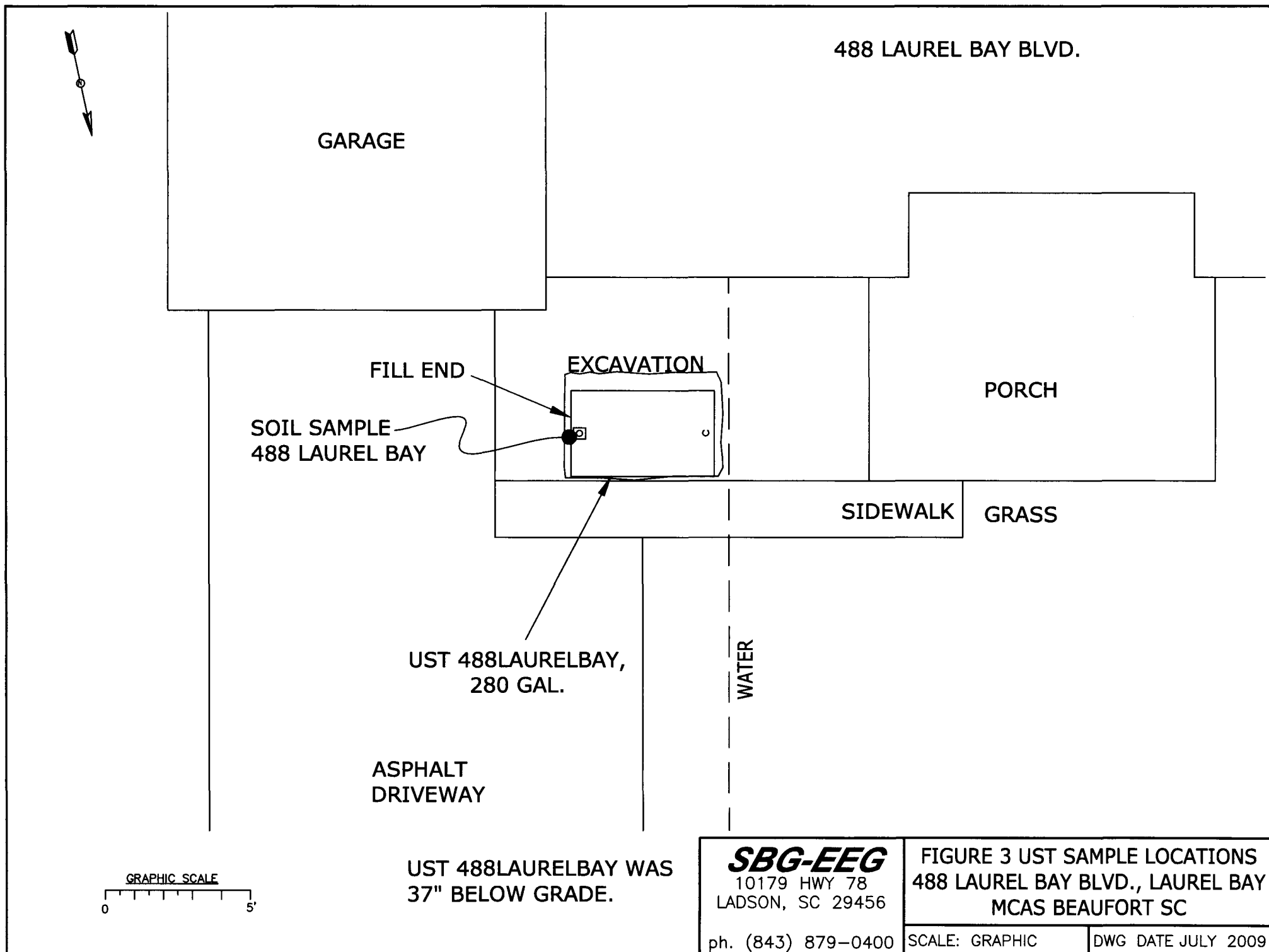
10179 HWY 78
LADSON, SC 29456

ph. (843) 879-0400

FIGURE 2 SITE MAP
488 LAUREL BAY BLVD., LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE JULY 2009





Picture 1: Location of UST 488Laurelbay prior to excavation.



Picture 2: UST 488Laurelbay.

XIV. SUMMARY OF ANALYSIS RESULTS

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

CoC	UST	488LaurelBay						
Benzene		ND						
Toluene		ND						
Ethylbenzene		ND						
Xylenes		ND						
Naphthalene		ND						
Benzo (a) anthracene		ND						
Benzo (b) fluoranthene		ND						
Benzo (k) fluoranthene		ND						
Chrysene		ND						
Dibenz (a, h) anthracene		ND						
TPH (EPA 3550)								

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

SUMMARY OF ANALYSIS RESULTS (cont'd)

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

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

XV. ANALYTICAL RESULTS

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

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

July 20, 2009

5:09:46PM

Client: EEG - Small Business Group, Inc. (2449)
10179 Highway 78
Ladson, SC 29456
Attn: Tom McElwee

Work Order: NSG0282
Project Name: Laurel Bay Housing Project
Project Nbr: [none]
P/O Nbr: 08087
Date Received: 07/03/09

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
1170 Jasmine	NSG0282-01	06/29/09 10:35
480 Laurel Bay	NSG0282-02	06/29/09 14:30
484 Laurel Bay	NSG0282-03	06/29/09 14:40
492 Laurel Bay	NSG0282-04	06/30/09 10:20
488 Laurel Bay	NSG0282-05	06/30/09 09:45
504 Laurel Bay	NSG0282-06	06/30/09 14:30
500 Laurel Bay	NSG0282-07	06/30/09 14:00

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.

Additional Laboratory Comments:

The methanol vial for sample NSG0282-01 had lost all the methanol prior to sample receipt. As a result, we were unable to perform analysis on a dilution greater than 1X. The data was flagged accordingly.
South Carolina Certification Number: 84009001

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

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

All solids results are reported in wet weight unless specifically stated.

Estimated uncertainty is available upon request.

This report has been electronically signed.

Report Approved By:



Ken A. Hayes

Senior Project Manager

Client EEG - Small Business Group, Inc. (2449)
10179 Highway 78
Ladson, SC 29456
Attn Tom McElwce

Work Order: NSG0282
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/03/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSG0282-01 (1170 Jasmine - Soil) Sampled: 06/29/09 10:35								
General Chemistry Parameters								
% Dry Solids	79.1		%	0.500	1	07/16/09 09:06	SW-846	9071822
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	0.0194		mg/kg dry	0.00228	1	07/08/09 02:27	SW846 8260B	9070447
Ethylbenzene	2.41	E, S10	mg/kg dry	0.00228	1	07/08/09 02:27	SW846 8260B	9070447
Naphthalene	1.23	E, S10	mg/kg dry	0.00570	1	07/08/09 02:27	SW846 8260B	9070447
Toluene	0.0364		mg/kg dry	0.00228	1	07/08/09 02:27	SW846 8260B	9070447
Xylenes, total	7.42	E, S10	mg/kg dry	0.00570	1	07/08/09 02:27	SW846 8260B	9070447
Surr: 1,2-Dichloroethane-d4 (67-138%)	97 %					07/08/09 02:27	SW846 8260B	9070447
Surr: Dibromofluoromethane (75-125%)	98 %					07/08/09 02:27	SW846 8260B	9070447
Surr: Toluene-d8 (76-129%)	543 %	ZX				07/08/09 02:27	SW846 8260B	9070447
Surr: 4-Bromofluorobenzene (67-147%)	414 %	ZX				07/08/09 02:27	SW846 8260B	9070447
Polyaromatic Hydrocarbons by EPA 8270D								
Acenaphthene	ND		mg/kg dry	0.839	10	07/11/09 18:31	SW846 8270D	9071105
Acenaphthylene	ND		mg/kg dry	0.839	10	07/11/09 18:31	SW846 8270D	9071105
Anthracene	1.44		mg/kg dry	0.839	10	07/11/09 18:31	SW846 8270D	9071105
Benzo (a) anthracene	ND		mg/kg dry	0.839	10	07/11/09 18:31	SW846 8270D	9071105
Benzo (a) pyrene	ND		mg/kg dry	0.839	10	07/11/09 18:31	SW846 8270D	9071105
Benzo (b) fluoranthene	ND		mg/kg dry	0.839	10	07/11/09 18:31	SW846 8270D	9071105
Benzo (g,h,i) perylene	ND		mg/kg dry	0.839	10	07/11/09 18:31	SW846 8270D	9071105
Benzo (k) fluoranthene	ND		mg/kg dry	0.839	10	07/11/09 18:31	SW846 8270D	9071105
Chrysene	ND		mg/kg dry	0.839	10	07/11/09 18:31	SW846 8270D	9071105
Dibenz (a,h) anthracene	ND		mg/kg dry	0.839	10	07/11/09 18:31	SW846 8270D	9071105
Fluoranthene	ND		mg/kg dry	0.839	10	07/11/09 18:31	SW846 8270D	9071105
Fluorene	7.83		mg/kg dry	0.839	10	07/11/09 18:31	SW846 8270D	9071105
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.839	10	07/11/09 18:31	SW846 8270D	9071105
Naphthalene	16.0		mg/kg dry	0.839	10	07/11/09 18:31	SW846 8270D	9071105
Phenanthrene	18.0		mg/kg dry	0.839	10	07/11/09 18:31	SW846 8270D	9071105
Pyrene	1.32		mg/kg dry	0.839	10	07/11/09 18:31	SW846 8270D	9071105
1-Methylnaphthalene	45.4		mg/kg dry	8.39	100	07/11/09 18:53	SW846 8270D	9071105
2-Methylnaphthalene	67.0		mg/kg dry	8.39	100	07/11/09 18:53	SW846 8270D	9071105
Surr: Terphenyl-d14 (18-120%)	85 %					07/11/09 18:31	SW846 8270D	9071105
Surr: 2-Fluorobiphenyl (14-120%)	77 %					07/11/09 18:31	SW846 8270D	9071105
Surr: Nitrobenzene-d5 (17-120%)	60 %					07/11/09 18:31	SW846 8270D	9071105

Client EEG - Small Business Group, Inc. (2449)
10179 Highway 78
Ladson, SC 29456
Attn Tom McElwce

Work Order: NSG0282
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/03/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSG0282-02 (480 Laurel Bay - Soil) Sampled: 06/29/09 14:30								
General Chemistry Parameters								
% Dry Solids	85.8		%	0.500	1	07/16/09 09:06	SW-846	9071822
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg dry	0.00208	1	07/08/09 02:57	SW846 8260B	9070447
Ethylbenzene	0.431		mg/kg dry	0.120	50	07/08/09 16:39	SW846 8260B	9070955
Naphthalene	9.62		mg/kg dry	0.300	50	07/08/09 16:39	SW846 8260B	9070955
Toluene	0.00210		mg/kg dry	0.00208	1	07/08/09 02:57	SW846 8260B	9070447
Xylenes, total	0.949		mg/kg dry	0.300	50	07/08/09 16:39	SW846 8260B	9070955
Surr: 1,2-Dichloroethane-d4 (67-138%)	98 %					07/08/09 02:57	SW846 8260B	9070447
Surr: 1,2-Dichloroethane-d4 (67-138%)	105 %					07/08/09 16:39	SW846 8260B	9070955
Surr: Dibromofluoromethane (75-125%)	93 %					07/08/09 02:57	SW846 8260B	9070447
Surr: Dibromofluoromethane (75-125%)	101 %					07/08/09 16:39	SW846 8260B	9070955
Surr: Toluene-d8 (76-129%)	172 %	ZX				07/08/09 02:57	SW846 8260B	9070447
Surr: Toluene-d8 (76-129%)	94 %					07/08/09 16:39	SW846 8260B	9070955
Surr: 4-Bromofluorobenzene (67-147%)	259 %	ZX				07/08/09 02:57	SW846 8260B	9070447
Surr: 4-Bromofluorobenzene (67-147%)	120 %					07/08/09 16:39	SW846 8260B	9070955
Polyaromatic Hydrocarbons by EPA 8270D								
Accnaphthene	ND		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
Accnaphthylene	ND		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
Anthracene	1.61		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
Benzo (a) anthracene	2.86		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
Benzo (a) pyrene	1.36		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
Benzo (b) fluoranthene	1.75		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
Benzo (g,h,i) perylene	ND		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
Benzo (k) fluoranthene	0.915		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
Chrysene	2.36		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
Dibenz (a,h) anthracene	ND		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
Fluoranthene	8.09		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
Fluorene	4.41		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
Naphthalene	3.76		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
Phenanthrene	11.7		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
Pyrene	7.78		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
1-Methylnaphthalene	28.1		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
2-Methylnaphthalene	38.5		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
Surr: Terphenyl-d14 (18-120%)	74 %					07/11/09 19:14	SW846 8270D	9071105
Surr: 2-Fluorobiphenyl (14-120%)	68 %					07/11/09 19:14	SW846 8270D	9071105
Surr: Nitrobenzene-d5 (17-120%)	49 %					07/11/09 19:14	SW846 8270D	9071105

Client EEG - Small Business Group, Inc. (2449)
10179 Highway 78
Ladson, SC 29456
Attn Tom McElwce

Work Order: NSG0282
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/03/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSG0282-03 (484 Laurel Bay - Soil) Sampled: 06/29/09 14:40								
General Chemistry Parameters								
% Dry Solids	87.8		%	0.500	1	07/16/09 09:06	SW-846	9071822
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg dry	0.00205	1	07/08/09 14:00	SW846 8260B	9070955
Ethylbenzene	ND		mg/kg dry	0.00205	1	07/08/09 14:00	SW846 8260B	9070955
Naphthalene	ND		mg/kg dry	0.00513	1	07/08/09 14:00	SW846 8260B	9070955
Toluene	ND		mg/kg dry	0.00205	1	07/08/09 14:00	SW846 8260B	9070955
Xylenes, total	ND		mg/kg dry	0.00513	1	07/08/09 14:00	SW846 8260B	9070955
Surr: 1,2-Dichloroethane-d4 (67-138%)	109 %					07/08/09 14:00	SW846 8260B	9070955
Surr: Dibromofluoromethane (75-125%)	109 %					07/08/09 14:00	SW846 8260B	9070955
Surr: Toluene-d8 (76-129%)	100 %					07/08/09 14:00	SW846 8260B	9070955
Surr: 4-Bromofluorobenzene (67-147%)	102 %					07/08/09 14:00	SW846 8260B	9070955
Polyaromatic Hydrocarbons by EPA 8270D								
Acenaphthene	ND		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
Acenaphthylene	ND		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
Anthracene	ND		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
Benzo (a) anthracene	ND		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
Benzo (a) pyrene	0.703		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
Benzo (b) fluoranthene	1.25		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
Benzo (g,h,i) perylene	0.713		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
Benzo (k) fluoranthene	0.373		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
Chrysene	0.392		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
Dibenz (a,h) anthracene	0.250		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
Fluoranthene	0.105		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
Fluorene	ND		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
Indeno (1,2,3-cd) pyrene	0.735		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
Naphthalene	ND		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
Phenanthrene	ND		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
Pyrene	0.264		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
1-Methylnaphthalene	ND		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
2-Methylnaphthalene	ND		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
Surr: Terphenyl-d14 (18-120%)	81 %					07/10/09 19:27	SW846 8270D	9071105
Surr: 2-Fluorobiphenyl (14-120%)	57 %					07/10/09 19:27	SW846 8270D	9071105
Surr: Nitrobenzene-d5 (17-120%)	51 %					07/10/09 19:27	SW846 8270D	9071105

Client EEG - Small Business Group, Inc. (2449)
10179 Highway 78
Ladson, SC 29456
Attn Tom McElwee

Work Order: NSG0282
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/03/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSG0282-04 (492 Laurel Bay - Soil) Sampled: 06/30/09 10:20								
General Chemistry Parameters								
% Dry Solids	93.1		%	0.500	1	07/16/09 09:06	SW-846	9071822
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg dry	0.00230	1	07/08/09 03:56	SW846 8260B	9070447
Ethylbenzene	ND		mg/kg dry	0.00230	1	07/08/09 03:56	SW846 8260B	9070447
Naphthalene	ND		mg/kg dry	0.00575	1	07/08/09 03:56	SW846 8260B	9070447
Toluene	ND		mg/kg dry	0.00230	1	07/08/09 03:56	SW846 8260B	9070447
Xylenes, total	ND		mg/kg dry	0.00575	1	07/08/09 03:56	SW846 8260B	9070447
Surr: 1,2-Dichloroethane-d4 (67-138%)	95 %					07/08/09 03:56	SW846 8260B	9070447
Surr: Dibromofluoromethane (75-125%)	92 %					07/08/09 03:56	SW846 8260B	9070447
Surr: Toluene-d8 (76-129%)	109 %					07/08/09 03:56	SW846 8260B	9070447
Surr: 4-Bromofluorobenzene (67-147%)	109 %					07/08/09 03:56	SW846 8260B	9070447
Polyaromatic Hydrocarbons by EPA 8270D								
Acenaphthene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
Acenaphthylene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
Anthracene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
Benzo (a) anthracene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
Benzo (a) pyrene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
Benzo (b) fluoranthene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
Benzo (k) fluoranthene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
Chrysene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
Fluoranthene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
Fluorene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
Naphthalene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
Phenanthrene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
Pyrene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
1-Methylnaphthalene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
2-Methylnaphthalene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
Surr: Terphenyl-d14 (18-120%)	89 %					07/10/09 19:48	SW846 8270D	9071105
Surr: 2-Fluorobiphenyl (14-120%)	71 %					07/10/09 19:48	SW846 8270D	9071105
Surr: Nitrobenzene-d5 (17-120%)	61 %					07/10/09 19:48	SW846 8270D	9071105

Client EEG - Small Business Group, Inc. (2449)
10179 Highway 78
Ladson, SC 29456
Attn Tom McElwcc

Work Order: NSG0282
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/03/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSG0282-05 (488 Laurel Bay - Soil) Sampled: 06/30/09 09:45								
General Chemistry Parameters								
% Dry Solids	77.9		%	0.500	1	07/16/09 09:06	SW-846	9071822
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg dry	0.00257	1	07/08/09 04:25	SW846 8260B	9070447
Ethylbenzene	ND		mg/kg dry	0.00257	1	07/08/09 04:25	SW846 8260B	9070447
Naphthalene	ND		mg/kg dry	0.00642	1	07/08/09 04:25	SW846 8260B	9070447
Toluene	ND		mg/kg dry	0.00257	1	07/08/09 04:25	SW846 8260B	9070447
Xylenes, total	ND		mg/kg dry	0.00642	1	07/08/09 04:25	SW846 8260B	9070447
Surr: 1,2-Dichloroethane-d4 (67-138%)	94 %					07/08/09 04:25	SW846 8260B	9070447
Surr: Dibromofluoromethane (75-125%)	87 %					07/08/09 04:25	SW846 8260B	9070447
Surr: Toluene-d8 (76-129%)	104 %					07/08/09 04:25	SW846 8260B	9070447
Surr: 4-Bromofluorobenzene (67-147%)	110 %					07/08/09 04:25	SW846 8260B	9070447
Polyaromatic Hydrocarbons by EPA 8270D								
Acenaphthene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
Acenaphthylene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
Anthracene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
Benzo (a) anthracene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
Benzo (a) pyrene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
Benzo (b) fluoranthene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
Benzo (k) fluoranthene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
Chrysene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
Fluoranthene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
Fluorene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
Naphthalene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
Phenanthrene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
Pyrene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
1-Methylnaphthalene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
2-Methylnaphthalene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
Surr: Terphenyl-d14 (18-120%)	93 %					07/10/09 20:10	SW846 8270D	9071105
Surr: 2-Fluorobiphenyl (14-120%)	78 %					07/10/09 20:10	SW846 8270D	9071105
Surr: Nitrobenzene-d5 (17-120%)	74 %					07/10/09 20:10	SW846 8270D	9071105

Client EEG - Small Business Group, Inc. (2449)
10179 Highway 78
Ladson, SC 29456
Attn Tom McElwce

Work Order: NSG0282
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/03/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSG0282-06 (504 Laurel Bay - Soil) Sampled: 06/30/09 14:30								
General Chemistry Parameters								
% Dry Solids	98.4		%	0.500	1	07/16/09 09:06	SW-846	9071822
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg dry	0.00229	1	07/08/09 04:55	SW846 8260B	9070447
Ethylbenzene	ND		mg/kg dry	0.00229	1	07/08/09 04:55	SW846 8260B	9070447
Naphthalene	ND		mg/kg dry	0.00572	1	07/08/09 04:55	SW846 8260B	9070447
Toluene	ND		mg/kg dry	0.00229	1	07/08/09 04:55	SW846 8260B	9070447
Xylenes, total	ND		mg/kg dry	0.00572	1	07/08/09 04:55	SW846 8260B	9070447
Surr: 1,2-Dichloroethane-d4 (67-138%)	99 %					07/08/09 04:55	SW846 8260B	9070447
Surr: Dibromofluoromethane (75-125%)	91 %					07/08/09 04:55	SW846 8260B	9070447
Surr: Toluene-d8 (76-129%)	108 %					07/08/09 04:55	SW846 8260B	9070447
Surr: 4-Bromofluorobenzene (67-147%)	118 %					07/08/09 04:55	SW846 8260B	9070447
Polyaromatic Hydrocarbons by EPA 8270D								
Acenaphthene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
Acenaphthylene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
Anthracene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
Benzo (a) anthracene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
Benzo (a) pyrene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
Benzo (b) fluoranthene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
Benzo (k) fluoranthene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
Chrysene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
Fluoranthene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
Fluorene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
Naphthalene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
Phenanthrene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
Pyrene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
1-Methylnaphthalene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
2-Methylnaphthalene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
Surr: Terphenyl-d14 (18-120%)	94 %					07/10/09 20:31	SW846 8270D	9071105
Surr: 2-Fluorobiphenyl (14-120%)	82 %					07/10/09 20:31	SW846 8270D	9071105
Surr: Nitrobenzene-d5 (17-120%)	77 %					07/10/09 20:31	SW846 8270D	9071105

Client EEG - Small Business Group, Inc. (2449)
10179 Highway 78
Ladson, SC 29456
Attn Tom McElwcc

Work Order: NSG0282
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/03/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSG0282-07 (500 Laurel Bay - Soil) Sampled: 06/30/09 14:00								
General Chemistry Parameters								
% Dry Solids	95.4		%	0.500	1	07/16/09 09:06	SW-846	9071822
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg dry	0.00223	1	07/08/09 05:25	SW846 8260B	9070447
Ethylbenzene	ND		mg/kg dry	0.00223	1	07/08/09 05:25	SW846 8260B	9070447
Naphthalene	ND		mg/kg dry	0.00558	1	07/08/09 05:25	SW846 8260B	9070447
Toluene	ND		mg/kg dry	0.00223	1	07/08/09 05:25	SW846 8260B	9070447
Xylenes, total	ND		mg/kg dry	0.00558	1	07/08/09 05:25	SW846 8260B	9070447
Surr: 1,2-Dichloroethane-d4 (67-138%)	99 %					07/08/09 05:25	SW846 8260B	9070447
Surr: Dibromofluoromethane (75-125%)	93 %					07/08/09 05:25	SW846 8260B	9070447
Surr: Toluene-d8 (76-129%)	112 %					07/08/09 05:25	SW846 8260B	9070447
Surr: 4-Bromofluorobenzene (67-147%)	115 %					07/08/09 05:25	SW846 8260B	9070447
Polyaromatic Hydrocarbons by EPA 8270D								
Acenaphthene	ND		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
Acenaphthylene	ND		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
Anthracene	ND		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
Benzo (a) anthracene	ND		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
Benzo (a) pyrene	0.0734		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
Benzo (b) fluoranthene	0.121		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
Benzo (k) fluoranthene	ND		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
Chrysene	0.0968		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
Fluoranthene	ND		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
Fluorene	ND		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
Naphthalene	ND		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
Phenanthrene	ND		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
Pyrene	ND		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
1-Methylnaphthalene	ND		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
2-Methylnaphthalene	ND		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
Surr: Terphenyl-d14 (18-120%)	78 %					07/10/09 20:52	SW846 8270D	9071105
Surr: 2-Fluorobiphenyl (14-120%)	67 %					07/10/09 20:52	SW846 8270D	9071105
Surr: Nitrobenzene-d5 (17-120%)	63 %					07/10/09 20:52	SW846 8270D	9071105

Client EEG - Small Business Group, Inc. (2449)
10179 Highway 78
Ladson, SC 29456
Attn Tom McElwcc

Work Order: NSG0282
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/03/09 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	9071105	NSG0282-01	30.29	1.00	07/09/09 10:25	TEM	EPA 3550B
SW846 8270D	9071105	NSG0282-01RE1	30.29	1.00	07/09/09 10:25	TEM	EPA 3550B
SW846 8270D	9071105	NSG0282-01RE2	30.29	1.00	07/09/09 10:25	TEM	EPA 3550B
SW846 8270D	9071105	NSG0282-02	30.44	1.00	07/09/09 10:25	TEM	EPA 3550B
SW846 8270D	9071105	NSG0282-02RE1	30.44	1.00	07/09/09 10:25	TEM	EPA 3550B
SW846 8270D	9071105	NSG0282-03	30.11	1.00	07/09/09 10:25	TEM	EPA 3550B
SW846 8270D	9071105	NSG0282-04	30.14	1.00	07/09/09 10:25	TEM	EPA 3550B
SW846 8270D	9071105	NSG0282-05	30.12	1.00	07/09/09 10:25	TEM	EPA 3550B
SW846 8270D	9071105	NSG0282-06	30.51	1.00	07/09/09 10:25	TEM	EPA 3550B
SW846 8270D	9071105	NSG0282-07	30.55	1.00	07/09/09 10:25	TEM	EPA 3550B
Selected Volatile Organic Compounds by EPA Method 8260B							
SW846 8260B	9070447	NSG0282-01	5.54	5.00	06/29/09 10:35	CHH	EPA 5035
SW846 8260B	9070447	NSG0282-02	5.60	5.00	06/29/09 14:30	CHH	EPA 5035
SW846 8260B	9070955	NSG0282-02RE1	4.85	5.00	06/29/09 14:30	CHH	EPA 5035
SW846 8260B	9070447	NSG0282-03	5.13	5.00	06/29/09 14:40	CHH	EPA 5035
SW846 8260B	9070955	NSG0282-03RE1	5.55	5.00	06/29/09 14:40	CHH	EPA 5035
SW846 8260B	9070447	NSG0282-04	4.67	5.00	06/30/09 10:20	CHH	EPA 5035
SW846 8260B	9070447	NSG0282-05	5.00	5.00	06/30/09 09:45	CHH	EPA 5035
SW846 8260B	9070447	NSG0282-06	4.44	5.00	06/30/09 14:30	CHH	EPA 5035
SW846 8260B	9070447	NSG0282-07	4.70	5.00	06/30/09 14:00	CHH	EPA 5035

Client EEG - Small Business Group, Inc. (2449)
10179 Highway 78
Ladson, SC 29456
Attn Tom McElwcc

Work Order: NSG0282
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/03/09 08:00

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Selected Volatile Organic Compounds by EPA Method 8260B						
9070447-BLK1						
Benzene	<0.000670		mg/kg wet	9070447	9070447-BLK1	07/08/09 01:58
Ethylbenzene	<0.000670		mg/kg wet	9070447	9070447-BLK1	07/08/09 01:58
Naphthalene	<0.00170		mg/kg wet	9070447	9070447-BLK1	07/08/09 01:58
Toluene	<0.000400		mg/kg wet	9070447	9070447-BLK1	07/08/09 01:58
Xylenes, total	<0.00130		mg/kg wet	9070447	9070447-BLK1	07/08/09 01:58
Surrogate: 1,2-Dichloroethane-d4	104%			9070447	9070447-BLK1	07/08/09 01:58
Surrogate: Dibromofluoromethane	98%			9070447	9070447-BLK1	07/08/09 01:58
Surrogate: Toluene-d8	110%			9070447	9070447-BLK1	07/08/09 01:58
Surrogate: 4-Bromofluorobenzene	103%			9070447	9070447-BLK1	07/08/09 01:58

9070955-BLK1						
Benzene	<0.000670		mg/kg wet	9070955	9070955-BLK1	07/08/09 13:30
Ethylbenzene	<0.000670		mg/kg wet	9070955	9070955-BLK1	07/08/09 13:30
Naphthalene	<0.00170		mg/kg wet	9070955	9070955-BLK1	07/08/09 13:30
Toluene	<0.000400		mg/kg wet	9070955	9070955-BLK1	07/08/09 13:30
Xylenes, total	<0.00130		mg/kg wet	9070955	9070955-BLK1	07/08/09 13:30
Surrogate: 1,2-Dichloroethane-d4	102%			9070955	9070955-BLK1	07/08/09 13:30
Surrogate: Dibromofluoromethane	103%			9070955	9070955-BLK1	07/08/09 13:30
Surrogate: Toluene-d8	97%			9070955	9070955-BLK1	07/08/09 13:30
Surrogate: 4-Bromofluorobenzene	98%			9070955	9070955-BLK1	07/08/09 13:30

Polyaromatic Hydrocarbons by EPA 8270D

9071105-BLK1						
Acenaphthene	<0.0320		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35
Acenaphthylene	<0.0310		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35
Anthracene	<0.0330		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35
Benzo (a) anthracene	<0.0380		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35
Benzo (a) pyrene	<0.0300		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35
Benzo (b) fluoranthene	<0.0300		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35
Benzo (g,h,i) perylene	<0.0300		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35
Benzo (k) fluoranthene	<0.0300		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35
Chrysene	<0.0400		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35
Dibenz (a,h) anthracene	<0.0310		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35
Fluoranthene	<0.0340		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35
Fluorene	<0.0360		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35
Indeno (1,2,3-cd) pyrene	<0.0310		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35
Naphthalene	<0.0410		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35
Phenanthrene	<0.0340		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35
Pyrene	<0.0410		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35
1-Methylnaphthalene	<0.0320		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35
2-Methylnaphthalene	<0.0330		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35

Client EEG - Small Business Group, Inc. (2449)
10179 Highway 78
Ladson, SC 29456
Attn Tom McElwce

Work Order: NSG0282
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/03/09 08:00

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8270D						
9071105-BLK1						
Surrogate: Terphenyl-d14	92%			9071105	9071105-BLK1	07/10/09 16:35
Surrogate: 2-Fluorobiphenyl	80%			9071105	9071105-BLK1	07/10/09 16:35
Surrogate: Nitrobenzene-d5	80%			9071105	9071105-BLK1	07/10/09 16:35

Client EEG - Small Business Group, Inc. (2449)
10179 Highway 78
Ladson, SC 29456
Attn Tom McElwee

Work Order: NSG0282
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/03/09 08:00

PROJECT QUALITY CONTROL DATA
Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	% Rec.	Analyzed Date/Time
General Chemistry Parameters										
9071822-DUP1										
% Dry Solids	78.6	77.3		%	2	20	9071822	NSG0845-08		07/16/09 09:06

Client EEG - Small Business Group, Inc. (2449)
10179 Highway 78
Ladson, SC 29456
Attn Tom McElwce

Work Order: NSG0282
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/03/09 08:00

PROJECT QUALITY CONTROL DATA

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Selected Volatile Organic Compounds by EPA Method 8260B								
9070447-BS1								
Benzene	50.0	57.9		ug/kg	116%	78 - 126	9070447	07/07/09 23:59
Ethylbenzene	50.0	50.2		ug/kg	100%	79 - 130	9070447	07/07/09 23:59
Naphthalene	50.0	52.9		ug/kg	106%	72 - 150	9070447	07/07/09 23:59
Toluene	50.0	52.8		ug/kg	106%	76 - 126	9070447	07/07/09 23:59
Xylenes, total	150	159		ug/kg	106%	80 - 130	9070447	07/07/09 23:59
Surrogate: 1,2-Dichloroethane-d4	50.0	55.6			111%	67 - 138	9070447	07/07/09 23:59
Surrogate: Dibromofluoromethane	50.0	50.4			101%	75 - 125	9070447	07/07/09 23:59
Surrogate: Toluene-d8	50.0	50.3			101%	76 - 129	9070447	07/07/09 23:59
Surrogate: 4-Bromofluorobenzene	50.0	50.4			101%	67 - 147	9070447	07/07/09 23:59
9070955-BS1								
Benzene	50.0	49.0		ug/kg	98%	78 - 126	9070955	07/08/09 11:08
Ethylbenzene	50.0	49.4		ug/kg	99%	79 - 130	9070955	07/08/09 11:08
Naphthalene	50.0	65.7		ug/kg	131%	72 - 150	9070955	07/08/09 11:08
Toluene	50.0	47.8		ug/kg	96%	76 - 126	9070955	07/08/09 11:08
Xylenes, total	150	151		ug/kg	100%	80 - 130	9070955	07/08/09 11:08
Surrogate: 1,2-Dichloroethane-d4	50.0	61.5			123%	67 - 138	9070955	07/08/09 11:08
Surrogate: Dibromofluoromethane	50.0	56.4			113%	75 - 125	9070955	07/08/09 11:08
Surrogate: Toluene-d8	50.0	50.5			101%	76 - 129	9070955	07/08/09 11:08
Surrogate: 4-Bromofluorobenzene	50.0	48.2			96%	67 - 147	9070955	07/08/09 11:08
Polyaromatic Hydrocarbons by EPA 8270D								
9071105-BS1								
Acenaphthene	1.67	1.39		mg/kg wet	83%	49 - 120	9071105	07/10/09 16:57
Acenaphthylene	1.67	1.39		mg/kg wet	84%	52 - 120	9071105	07/10/09 16:57
Anthracene	1.67	1.56		mg/kg wet	93%	58 - 120	9071105	07/10/09 16:57
Benzo (a) anthracene	1.67	1.49		mg/kg wet	89%	57 - 120	9071105	07/10/09 16:57
Benzo (a) pyrene	1.67	1.51		mg/kg wet	91%	55 - 120	9071105	07/10/09 16:57
Benzo (b) fluoranthene	1.67	1.58		mg/kg wet	95%	51 - 123	9071105	07/10/09 16:57
Benzo (g,h,i) perylene	1.67	1.34		mg/kg wet	80%	49 - 121	9071105	07/10/09 16:57
Benzo (k) fluoranthene	1.67	1.39		mg/kg wet	83%	42 - 129	9071105	07/10/09 16:57
Chrysene	1.67	1.46		mg/kg wet	87%	55 - 120	9071105	07/10/09 16:57
Dibenz (a,h) anthracene	1.67	1.44		mg/kg wet	86%	50 - 123	9071105	07/10/09 16:57
Fluoranthene	1.67	1.55		mg/kg wet	93%	58 - 120	9071105	07/10/09 16:57
Fluorene	1.67	1.43		mg/kg wet	86%	54 - 120	9071105	07/10/09 16:57
Indeno (1,2,3-cd) pyrene	1.67	1.41		mg/kg wet	84%	50 - 122	9071105	07/10/09 16:57
Naphthalene	1.67	1.15		mg/kg wet	69%	28 - 107	9071105	07/10/09 16:57
Phenanthrene	1.67	1.42		mg/kg wet	85%	56 - 120	9071105	07/10/09 16:57
Pyrene	1.67	1.47		mg/kg wet	88%	56 - 120	9071105	07/10/09 16:57
1-Methylnaphthalene	1.67	1.12		mg/kg wet	67%	36 - 120	9071105	07/10/09 16:57
2-Methylnaphthalene	1.67	1.14		mg/kg wet	69%	36 - 120	9071105	07/10/09 16:57

Client EEG - Small Business Group, Inc. (2449)
10179 Highway 78
Ladson, SC 29456
Attn Tom McElwec

Work Order: NSG0282
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/03/09 08:00

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8270D								
9071105-BS1								
<i>Surrogate: Terphenyl-d14</i>	1.67	1.36			82%	18 - 120	9071105	07/10/09 16:57
<i>Surrogate: 2-Fluorobiphenyl</i>	1.67	1.23			74%	14 - 120	9071105	07/10/09 16:57
<i>Surrogate: Nitrobenzene-d5</i>	1.67	1.07			64%	17 - 120	9071105	07/10/09 16:57

Client EEG - Small Business Group, Inc. (2449)
10179 Highway 78
Ladson, SC 29456
Attn Tom McElwce

Work Order: NSG0282
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/03/09 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 Compounds by EPA Method 8260B												
9070447-BSD1												
Benzene		46.6		ug/kg	50.0	93%	78 - 126	22	50	9070447		07/08/09 00:29
Ethylbenzene		43.4		ug/kg	50.0	87%	79 - 130	14	50	9070447		07/08/09 00:29
Naphthalene		42.0		ug/kg	50.0	84%	72 - 150	23	50	9070447		07/08/09 00:29
Toluene		48.6		ug/kg	50.0	97%	76 - 126	8	50	9070447		07/08/09 00:29
Xylenes, total		141		ug/kg	150	94%	80 - 130	12	50	9070447		07/08/09 00:29
Surrogate: 1,2-Dichloroethane-d4		52.2		ug/kg	50.0	104%	67 - 138			9070447		07/08/09 00:29
Surrogate: Dibromofluoromethane		50.9		ug/kg	50.0	102%	75 - 125			9070447		07/08/09 00:29
Surrogate: Toluene-d8		55.9		ug/kg	50.0	112%	76 - 129			9070447		07/08/09 00:29
Surrogate: 4-Bromofluorobenzene		50.8		ug/kg	50.0	102%	67 - 147			9070447		07/08/09 00:29
9070955-BSD1												
Benzene		49.3		ug/kg	50.0	99%	78 - 126	0.5	50	9070955		07/08/09 11:39
Ethylbenzene		49.0		ug/kg	50.0	98%	79 - 130	0.9	50	9070955		07/08/09 11:39
Naphthalene		65.7		ug/kg	50.0	131%	72 - 150	0.05	50	9070955		07/08/09 11:39
Toluene		47.4		ug/kg	50.0	95%	76 - 126	0.9	50	9070955		07/08/09 11:39
Xylenes, total		150		ug/kg	150	100%	80 - 130	0.5	50	9070955		07/08/09 11:39
Surrogate: 1,2-Dichloroethane-d4		61.9		ug/kg	50.0	124%	67 - 138			9070955		07/08/09 11:39
Surrogate: Dibromofluoromethane		57.7		ug/kg	50.0	115%	75 - 125			9070955		07/08/09 11:39
Surrogate: Toluene-d8		50.7		ug/kg	50.0	101%	76 - 129			9070955		07/08/09 11:39
Surrogate: 4-Bromofluorobenzene		47.9		ug/kg	50.0	96%	67 - 147			9070955		07/08/09 11:39

Client EEG - Small Business Group, Inc. (2449)
10179 Highway 78
Ladson, SC 29456
Attn Tom McElwce

Work Order: NSG0282
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/03/09 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
Selected Volatile Organic Compounds by EPA Method 8260B										
9070955-MS1										
Benzene	ND	1.99		mg/kg wet	2.77	72%	42 - 141	9070955	NSG0285-06RE 1	07/08/09 20:40
Ethylbenzene	ND	2.08		mg/kg wet	2.77	75%	21 - 165	9070955	NSG0285-06RE 1	07/08/09 20:40
Naphthalene	ND	2.00		mg/kg wet	2.77	72%	10 - 160	9070955	NSG0285-06RE 1	07/08/09 20:40
Toluene	ND	2.03		mg/kg wet	2.77	73%	45 - 145	9070955	NSG0285-06RE 1	07/08/09 20:40
Xylenes, total	0.0782	6.37		mg/kg wet	8.31	76%	31 - 159	9070955	NSG0285-06RE 1	07/08/09 20:40
Surrogate: 1,2-Dichloroethane-d4		39.2		ug/kg	50.0	78%	67 - 138	9070955	NSG0285-06RE 1	07/08/09 20:40
Surrogate: Dibromofluoromethane		42.5		ug/kg	50.0	85%	75 - 125	9070955	NSG0285-06RE 1	07/08/09 20:40
Surrogate: Toluene-d8		48.4		ug/kg	50.0	97%	76 - 129	9070955	NSG0285-06RE 1	07/08/09 20:40
Surrogate: 4-Bromofluorobenzene		49.7		ug/kg	50.0	99%	67 - 147	9070955	NSG0285-06RE 1	07/08/09 20:40

Polyaromatic Hydrocarbons by EPA 8270D

9071105-MS1

Acenaphthene	ND	1.86		mg/kg dry	2.12	88%	42 - 120	9071105	NSG0282-05	07/10/09 17:18
Acenaphthylene	ND	1.87		mg/kg dry	2.12	88%	32 - 120	9071105	NSG0282-05	07/10/09 17:18
Anthracene	ND	2.06		mg/kg dry	2.12	97%	10 - 200	9071105	NSG0282-05	07/10/09 17:18
Benzo (a) anthracene	ND	1.99		mg/kg dry	2.12	94%	41 - 120	9071105	NSG0282-05	07/10/09 17:18
Benzo (a) pyrene	ND	2.00		mg/kg dry	2.12	94%	33 - 121	9071105	NSG0282-05	07/10/09 17:18
Benzo (b) fluoranthene	ND	2.08		mg/kg dry	2.12	98%	26 - 137	9071105	NSG0282-05	07/10/09 17:18
Benzo (g,h,i) perylene	ND	1.78		mg/kg dry	2.12	84%	21 - 124	9071105	NSG0282-05	07/10/09 17:18
Benzo (k) fluoranthene	ND	1.93		mg/kg dry	2.12	91%	14 - 140	9071105	NSG0282-05	07/10/09 17:18
Chrysene	ND	1.94		mg/kg dry	2.12	91%	28 - 123	9071105	NSG0282-05	07/10/09 17:18
Dibenz (a,h) anthracene	ND	1.92		mg/kg dry	2.12	90%	25 - 127	9071105	NSG0282-05	07/10/09 17:18
Fluoranthene	ND	2.17		mg/kg dry	2.12	102%	38 - 120	9071105	NSG0282-05	07/10/09 17:18
Fluorene	ND	1.99		mg/kg dry	2.12	94%	41 - 120	9071105	NSG0282-05	07/10/09 17:18
Indeno (1,2,3-cd) pyrene	ND	1.86		mg/kg dry	2.12	88%	25 - 123	9071105	NSG0282-05	07/10/09 17:18
Naphthalene	ND	1.52		mg/kg dry	2.12	72%	25 - 120	9071105	NSG0282-05	07/10/09 17:18
Phenanthrene	ND	1.93		mg/kg dry	2.12	91%	37 - 120	9071105	NSG0282-05	07/10/09 17:18
Pyrene	ND	2.00		mg/kg dry	2.12	94%	29 - 125	9071105	NSG0282-05	07/10/09 17:18
1-Methylnaphthalene	ND	1.49		mg/kg dry	2.12	70%	19 - 120	9071105	NSG0282-05	07/10/09 17:18
2-Methylnaphthalene	ND	1.55		mg/kg dry	2.12	73%	11 - 120	9071105	NSG0282-05	07/10/09 17:18
Surrogate: Terphenyl-d14		1.90		mg/kg dry	2.12	90%	18 - 120	9071105	NSG0282-05	07/10/09 17:18
Surrogate: 2-Fluorobiphenyl		1.66		mg/kg dry	2.12	78%	14 - 120	9071105	NSG0282-05	07/10/09 17:18
Surrogate: Nitrobenzene-d5		1.36		mg/kg dry	2.12	64%	17 - 120	9071105	NSG0282-05	07/10/09 17:18

Client EEG - Small Business Group, Inc. (2449)
10179 Highway 78
Ladson, SC 29456
Attn Tom McElwee

Work Order: NSG0282
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/03/09 08:00

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
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Polyaromatic Hydrocarbons by EPA 8270D

Client EEG - Small Business Group, Inc. (2449)
10179 Highway 78
Ladson, SC 29456
Attn Tom McElwee

Work Order: NSG0282
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/03/09 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 Compounds by EPA Method 8260B												
9070955-MSD1												
Benzene	ND	2.07		mg/kg wet	2.77	75%	42 - 141	4	50	9070955	NSG0285-06RE	07/08/09 21:11
Ethylbenzene	ND	2.12		mg/kg wet	2.77	76%	21 - 165	2	50	9070955	NSG0285-06RE	07/08/09 21:11
Naphthalene	ND	2.12		mg/kg wet	2.77	77%	10 - 160	6	50	9070955	NSG0285-06RE	07/08/09 21:11
Toluene	ND	2.05		mg/kg wet	2.77	74%	45 - 145	1	50	9070955	NSG0285-06RE	07/08/09 21:11
Xylenes, total	0.0782	6.41		mg/kg wet	8.31	76%	31 - 159	0.5	50	9070955	NSG0285-06RE	07/08/09 21:11
Surrogate: 1,2-Dichloroethane-d4		39.9		ug/kg	50.0	80%	67 - 138			9070955	NSG0285-06RE	07/08/09 21:11
Surrogate: Dibromofluoromethane		43.6		ug/kg	50.0	87%	75 - 125			9070955	NSG0285-06RE	07/08/09 21:11
Surrogate: Toluene-d8		47.8		ug/kg	50.0	96%	76 - 129			9070955	NSG0285-06RE	07/08/09 21:11
Surrogate: 4-Bromofluorobenzene		49.6		ug/kg	50.0	99%	67 - 147			9070955	NSG0285-06RE	07/08/09 21:11
Polyaromatic Hydrocarbons by EPA 8270D												
9071105-MSD1												
Acenaphthene	ND	1.35		mg/kg dry	2.10	64%	42 - 120	32	40	9071105	NSG0282-05	07/10/09 17:40
Acenaphthylene	ND	1.34	R	mg/kg dry	2.10	64%	32 - 120	33	30	9071105	NSG0282-05	07/10/09 17:40
Anthracene	ND	1.59		mg/kg dry	2.10	76%	10 - 200	26	50	9071105	NSG0282-05	07/10/09 17:40
Benzo (a) anthracene	ND	1.51		mg/kg dry	2.10	72%	41 - 120	27	30	9071105	NSG0282-05	07/10/09 17:40
Benzo (a) pyrene	ND	1.50		mg/kg dry	2.10	72%	33 - 121	28	33	9071105	NSG0282-05	07/10/09 17:40
Benzo (b) fluoranthene	ND	1.40		mg/kg dry	2.10	67%	26 - 137	39	42	9071105	NSG0282-05	07/10/09 17:40
Benzo (g,h,i) perylene	ND	1.31		mg/kg dry	2.10	63%	21 - 124	30	32	9071105	NSG0282-05	07/10/09 17:40
Benzo (k) fluoranthene	ND	1.59		mg/kg dry	2.10	76%	14 - 140	20	39	9071105	NSG0282-05	07/10/09 17:40
Chrysene	ND	1.47		mg/kg dry	2.10	70%	28 - 123	27	34	9071105	NSG0282-05	07/10/09 17:40
Dibenz (a,h) anthracene	ND	1.42		mg/kg dry	2.10	68%	25 - 127	30	31	9071105	NSG0282-05	07/10/09 17:40
Fluoranthene	ND	1.62		mg/kg dry	2.10	77%	38 - 120	29	35	9071105	NSG0282-05	07/10/09 17:40
Fluorene	ND	1.43		mg/kg dry	2.10	68%	41 - 120	33	37	9071105	NSG0282-05	07/10/09 17:40
Indeno (1,2,3-cd) pyrene	ND	1.37		mg/kg dry	2.10	65%	25 - 123	31	32	9071105	NSG0282-05	07/10/09 17:40
Naphthalene	ND	1.10		mg/kg dry	2.10	53%	25 - 120	32	42	9071105	NSG0282-05	07/10/09 17:40
Phenanthrene	ND	1.46		mg/kg dry	2.10	70%	37 - 120	28	32	9071105	NSG0282-05	07/10/09 17:40
Pyrene	ND	1.51		mg/kg dry	2.10	72%	29 - 125	28	40	9071105	NSG0282-05	07/10/09 17:40
1-Methylnaphthalene	ND	1.05		mg/kg dry	2.10	50%	19 - 120	35	45	9071105	NSG0282-05	07/10/09 17:40
2-Methylnaphthalene	ND	1.14		mg/kg dry	2.10	54%	11 - 120	31	50	9071105	NSG0282-05	07/10/09 17:40
Surrogate: Terphenyl-d14		1.48		mg/kg dry	2.10	71%	18 - 120			9071105	NSG0282-05	07/10/09 17:40
Surrogate: 2-Fluorobiphenyl		1.16		mg/kg dry	2.10	55%	14 - 120			9071105	NSG0282-05	07/10/09 17:40
Surrogate: Nitrobenzene-d5		1.01		mg/kg dry	2.10	48%	17 - 120			9071105	NSG0282-05	07/10/09 17:40

Client EEG - Small Business Group, Inc. (2449)
10179 Highway 78
Ladson, SC 29456
Attn Tom McElwce

Work Order: NSG0282
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/03/09 08:00

CERTIFICATION SUMMARY

TestAmerica Nashville

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

Client EEG - Small Business Group, Inc. (2449)
10179 Highway 78
Ladson, SC 29456
Attn Tom McElwce

Work Order: NSG0282
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/03/09 08:00

DATA QUALIFIERS AND DEFINITIONS

E Concentration exceeds the calibration range and therefore result is semi-quantitative.
R The RPD exceeded the method control limit. The individual analyte QA/QC recoveries, however, were within acceptance limits.
S10 Insufficient sample available for reanalysis.
ZX Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
ND Not detected at the reporting limit (or method detection limit if shown)

METHOD MODIFICATION NOTES

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division
2960 Foster Creighton
Nashville, TN 37204Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404To assist us in using the proper analytical
methods, is this work being conducted for
regulatory purposes?Compliance Monitoring? Yes ☐ No ☐
Enforcement Action? Yes ☐ No ☐

Client Name/Account #: EEG # 2449

Address: 10179 Highway 78

City/State/Zip: Ladson, SC 29456

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

Telephone Number: 843.412.2097

Fax No.: 843-879-0401

Sampler Name: (Print) PRATT, Shaw

Sampler Signature: [Signature]

Site State: SC

PO#: 0829

TA Quote #:

Project ID: Laurel Bay Housing Project

Project #:

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative							Matrix						Analyze For:										RUSH TAT (Pre-Schedule)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
							Ice	4M02-(Red Label)	HCl (Blue Label)	NaOH (Orange Label)	H2SO4 Plastic (Yellow Label)	H2SO4 Glass (Yellow Label)	None (Black Label)	Other (Specify)	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	BTEX + Naph - 82605	PAH - 8270C																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										

Special Instructions:

Laboratory Comments:

Temperature Upon Receipt: 4.6
VOCs Free of Headspace? Y

Method of Shipment: FEDEX					
Relinquished by: [Signature]	Date: 7/2/09	Time: 1900	Received by: FedEx	Date:	Time:
Relinquished by:	Date:	Time:	Received by TestAmerica:	Date: 7.3.09	Time: 0800

ATTACHMENT A



NON-HAZARDOUS MANIFEST

CWM

se print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of 1													
3. Generator's Name and Mailing Address MCAS, Beaufort Laurel Bay Housing Beaufort SC 29904				A. Manifest Number WMNA 10885476															
4. Generator's Phone 843 228-6460				B. State Generator's ID															
5. Transporter 1 Company Name EEG, Inc.		6. US EPA ID Number		C. State Transporter's ID		D. Transporter's Phone 843 878-0411													
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone													
9. Designated Facility Name and Site Address HICKORY HILL LANDFILL ROUTE 1, BOX 121 RIDGELAND SC 29936		10. US EPA ID Number		G. State Facility's ID		H. Facility's Phone 843 987-4643													
11. Description of Waste Materials				12. Containers No. Type		13. Total Quantity		14. Unit Wt./Vol.		15. Misc. Comments									
a. Heating Oil Tank filled with Sand				WM Profile # 102855SC		0 0 1		8.02		TN									
b.				WM Profile #															
c.				WM Profile #															
d.				WM Profile #															
J. Additional Descriptions for Materials Listed Above Landfill _____ Solidification _____ Bio Remediation _____						K. Disposal Location Cell _____ Level _____ Grid _____													
15. Special Handling Instructions and Additional Information TEA LIST from Houses 1) 1162 JASMINE 2) 1168 JASMINE 3) 1170 JASMINE ✓ 4) 480 LAUREL BAY ✓ 5) 484 LAUREL BAY ✓ 6) 492 LAUREL BAY ✓ 7) 488 LAUREL BAY ✓						Purchase Order # _____ EMERGENCY CONTACT: _____													
16. GENERATOR'S CERTIFICATION: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.																			
Printed/Typed Name W.C. Duke, Jr.						Signature "On behalf of" [Signature]						Month Day Year 01/18/99							
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Joseph Weston						Signature [Signature]						Month Day Year 01/18/99							
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name						Signature						Month Day Year							
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.																			
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest. Printed/Typed Name Jan Collins												Signature [Signature]						Month Day Year 01/18/99	

Appendix C

Regulatory Correspondence



C. Earl Hunter, Commissioner

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

**Bureau of Land and Waste Management
Division of Waste Management**

February 17, 2010

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

RE: **No Further Action**
Laurel Bay Underground Storage Tank Assessment Reports for:

- 492 Laurel Bay
- 488 Laurel Bay
- 504 Laurel Bay
- 500 Laurel Bay

Dear Mr. Drawdy,

The South Carolina Department of Health and Environmental Control (the Department) received the above referenced Underground Storage Tanks (USTs) Assessment Reports on September 23, 2009 and October 8, 2009 for the addresses listed above.

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

Please note that the Department's decision is based on information provided by the Marine Corp 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 picketcn@dhec.sc.gov or 803-896-4131.

Sincerely,

Christi Pickett
Corrective Action Engineering Section
Bureau of Land and Waste Management
South Carolina Department of Health and Environmental Control

cc: Laurel Rhoten (via email)
Craig Ehde (via email)



South Carolina Department of Health
and Environmental Control

MEMORANDUM

TO: Christi Pickett Engineering Associate
Corrective Action Engineering Section
Division of Waste Management
Bureau of Land and Waste Management

FROM: J Sommer Streett, Hydrogeologist *JSS*
Federal Facilities Groundwater Section
Division of Waste Management
Bureau of Land and Waste Management

DATE: February 17, 2010

RE: Marine Corps Air Station (MCAS)
Beaufort, South Carolina
SC1 750 216 169

Underground Storage Tank (UST) Assessment Report
488 Laurel Bay Blvd., Laurel Bay Military Housing Area
492 Laurel Bay Blvd., Laurel Bay Military Housing Area
500 Laurel Bay Blvd., Laurel Bay Military Housing Area
504 Laurel Bay Blvd., Laurel Bay Military Housing Area
Dated September 23, 2009

The documents referenced above have been reviewed with respect to the South Carolina Pollution Control Act 48-1-10. These documents include data from soil samples collected during removal of underground heating oil tanks at the Laurel Bay Housing Area. These tanks are being voluntarily removed by the MCAS. Data included in these reports have been compared to the appropriate screening levels.

USTs 488 Laurel Bay Blvd., 492 Laurel Bay Blvd., 500 Laurel Bay Blvd. and 504 Laurel Bay Blvd. are single steel wall 280 gallon heating oil tanks that were installed during the late 1950s and used through the mid 1980s. They were removed during the June 30, 2009 field activities and disposed of at a subtitle D landfill.

Based on this review, the Federal Facilities Groundwater Section has no comment.