

SUMMARY REPORT
305 WEST DOVE LANE (FORMERLY 1378 WEST DOVE LANE)
LAUREL BAY MILITARY HOUSING AREA
MARINE CORPS AIR STATION BEAUFORT
BEAUFORT, SC

Revision: 0
Prepared for:

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

and



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

JUNE 2021

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Norfolk, Virginia 23511-3095

Prepared by:



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

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

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List of Acronyms

bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
CTO	Contract Task Order
COPC	constituents of potential concern
IDIQ	Indefinite Delivery, Indefinite Quantity
IGWA	Initial Groundwater Assessment
JV	Joint Venture
LBMH	Laurel Bay Military Housing
MCAS	Marine Corps Air Station
NAVFAC Mid-Lant	Naval Facilities Engineering Command Mid-Atlantic
NFA	No Further Action
PAH	polynuclear aromatic hydrocarbon
QAPP	Quality Assurance Program Plan
RBSL	risk-based screening level
SCDHEC	South Carolina Department of Health and Environmental Control
Site	LBMH area at MCAS Beaufort, South Carolina
UST	underground storage tank
VISL	vapor intrusion screening level

1.0 INTRODUCTION

The CDM - AECOM Multimedia Joint Venture (JV) was contracted by the Naval Facilities Engineering Command, Mid-Atlantic (NAVFAC Mid-Lant) to provide reporting services for the heating oil underground storage tanks (USTs) located in Laurel Bay Military Housing (LBMH) area at the Marine Corps Air Station (MCAS) Beaufort, South Carolina (Site). This work has been awarded under Contract Task Order (CTO) WE52 of the Indefinite Delivery, Indefinite Quantity (IDIQ) Multimedia Environmental Compliance Contract (Contract No. N62470-14-D-9016).

As of January 2014, the LBMH addresses were re-numbered to comply with the E-911 emergency response addressing system; however, in order to remain consistent with historical sampling and reporting for LBMH area, the residences will continue to be referenced with their original address numbers in sample nomenclature and reporting documents.

This report summarizes the results the environmental investigation activities associated with the storage of home heating oil and the potential release of petroleum constituents at the referenced property. Based on the results of the investigation, a No Further Action (NFA) determination has been made by the South Carolina Department of Health and Environmental Control (SCDHEC) for 305 West Dove Lane (Formerly 1378 West Dove Lane). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

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

1.1 Background Information

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

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

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

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

1.2 UST Removal and Assessment Process

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

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

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

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

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

2.0 SAMPLING ACTIVITIES AND RESULTS

The following section presents the sampling activities and associated results for 305 West Dove Lane (Formerly 1378 West Dove Lane). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 1378 West Dove Lane* (MCAS Beaufort, 2009). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On July 13, 2009, a single 280 gallon heating oil UST was removed from the back yard adjacent to the garage area at 305 West Dove Lane (Formerly 1378 West Dove Lane). The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). The UST was removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of the UST was 6'1" 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 305 West Dove Lane (Formerly 1378 West Dove Lane) were less than the SCDHEC RBSLs, which indicated the subsurface was not impacted by COPCs associated with the former UST at concentrations that presented a potential risk to human health and the environment.

3.0 PROPERTY STATUS

Based on the analytical results for soil, SCDHEC made the determination that NFA was required for 305 West Dove Lane (Formerly 1378 West Dove Lane). This NFA determination was obtained in a letter dated February 26, 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 – 1378 West Dove Lane, 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
305 West Dove Lane (Formerly 1378 West Dove Lane)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Results Sample Collected 07/13/09
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

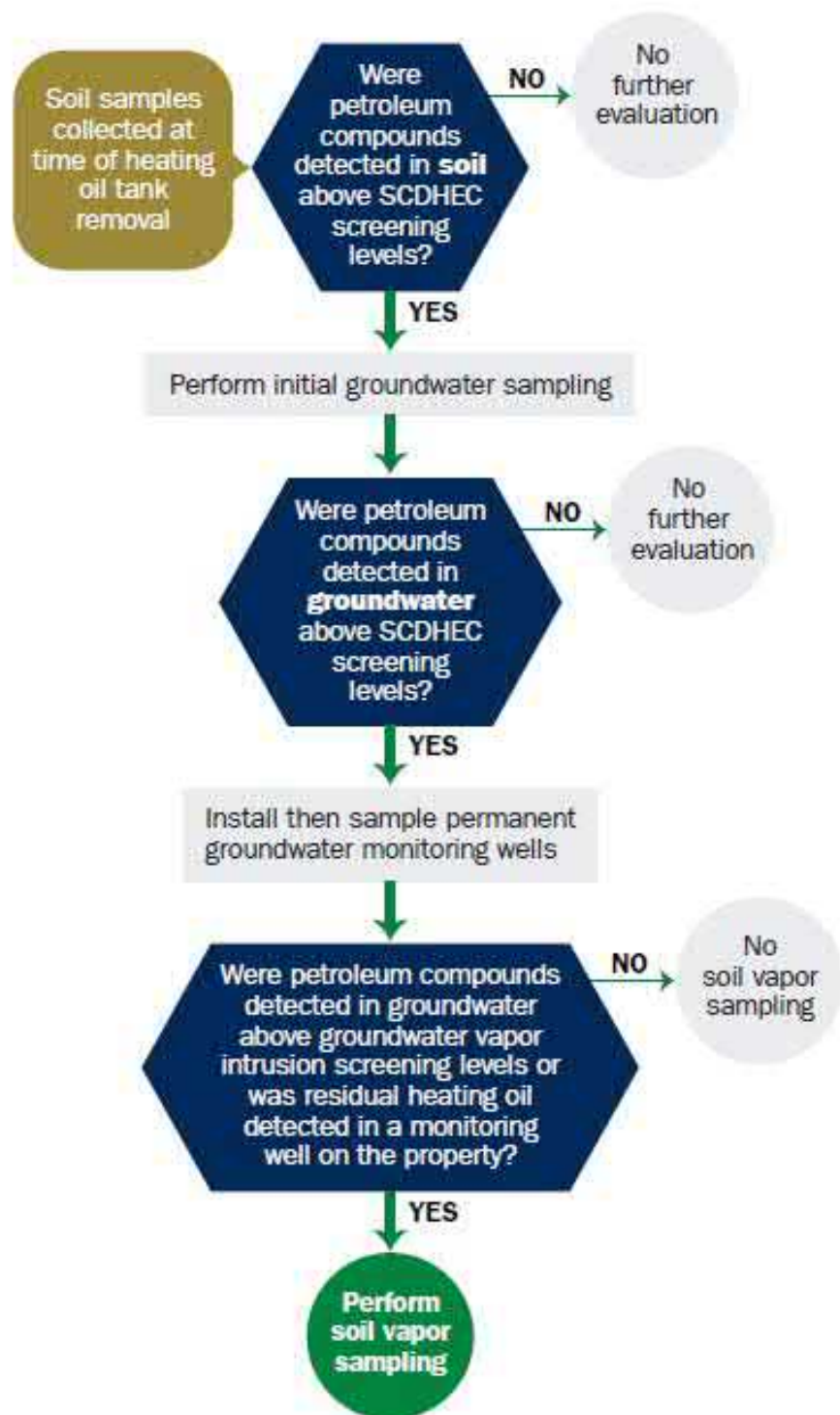
mg/kg - milligram per kilogram

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

1378 Dove Lane, 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.....

1378Dove				
Heating oil				
280 gal				
Late 1950s				
Steel				
Mid 1980s				
6'1"				
No				
No				
Removed				
7/13/09				
Yes				
Yes				

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

UST 1378Dove 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 1378Dove 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.

1378Dove				
Steel & Copper				
N/A				
N/A				
Suction				
*Yes				
Unknown				
Unknown				
Late 1950s				

*Steel vent piping was previously removed by others. Copper supply and return lines were crimped closed and abandoned in place.

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 #
1378 Dove	Excav at fill end	Soil	Sandy	6'1"	7/13/09 1000 hrs	P. Shaw	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

* = Depth Below the Surrounding Land Surface

XI. SAMPLING METHODOLOGY

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

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

XII. RECEPTORS

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

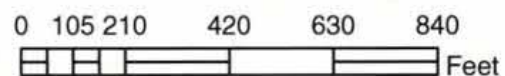
XIII. SITE MAP

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

(Attach Site Map Here)



1378 DOVE LANE



SBG-EEG, Inc.

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

Ph. (843) 879-0400

Drawn By: L. DiAsio

Dwg Date: Aug 2009

FIGURE 1: LOCATION MAP
1378 DOVE LANE, LAUREL BAY
MCAS BEAUFORT SC

GEOTHERMAL LINES

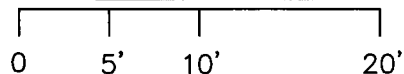
UST 1378DOVE



1378 DOVE LANE
LAUREL BAY MILITARY HOUSING
MCAS BEAUFORT, SC

ASPHALT
DRIVEWAY

GRAPHIC SCALE



SBG-EEG

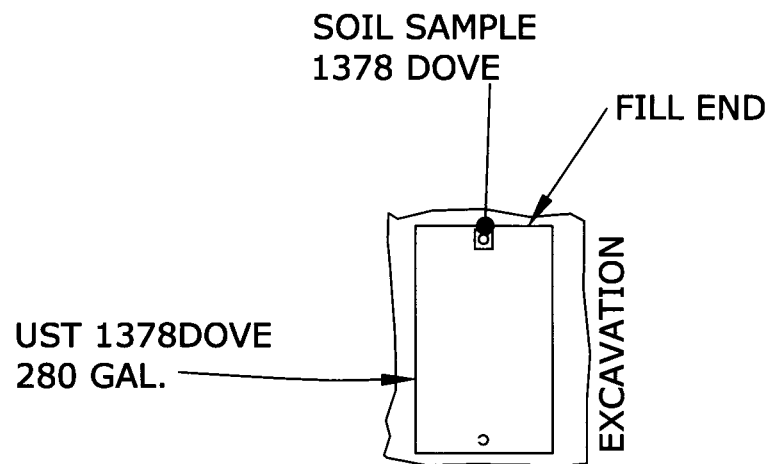
10179 HWY 78
LADSON, SC 29456

ph. (843) 879-0400

FIGURE 2 SITE MAP
1378 DOVE LANE, LAUREL BAY
MCAS BEAUFORT SC

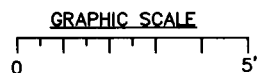
SCALE: GRAPHIC

DWG DATE AUG 2009



GRASS

REAR OF
1378 DOVE LANE



UST 1378DOVE WAS
37" BELOW GRADE.

SBG-EEG

10179 HWY 78
LADSON, SC 29456

ph. (843) 879-0400

FIGURE 3 UST SAMPLE LOCATIONS
1378 DOVE LANE, LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE AUG 2009



Picture 1: Location of UST 1378Dove prior to removal.



Picture 2: Location of UST 1378Dove after tank removal.

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	1378Dove						
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 30, 2009

6:49:11PM

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

Work Order: NSG1390
Project Name: Laurel Bay Housing Project
Project Nbr: [none]
P/O Nbr: 08129
Date Received: 07/17/09

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
1378 Dove	NSG1390-01	07/13/09 10:00
1377 Dove	NSG1390-02	07/13/09 09:50
1376 Dove	NSG1390-03	07/13/09 15:10
1382 Dove	NSG1390-04	07/13/09 13:30
1381 Dove	NSG1390-05	07/14/09 10:15
1385 Dove	NSG1390-06	07/14/09 15:10

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.

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 McElwee

Work Order: NSG1390
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/17/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSG1390-01 (1378 Dove - Soil) Sampled: 07/13/09 10:00								
General Chemistry Parameters								
% Dry Solids	78.8		%	0.500	1	07/28/09 08:49	SW-846	9073886
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg dry	0.00215	1	07/24/09 16:30	SW846 8260B	9072531
Ethylbenzene	ND		mg/kg dry	0.00215	1	07/24/09 16:30	SW846 8260B	9072531
Naphthalene	ND		mg/kg dry	0.00538	1	07/24/09 16:30	SW846 8260B	9072531
Toluene	ND		mg/kg dry	0.00215	1	07/24/09 16:30	SW846 8260B	9072531
Xylenes, total	ND		mg/kg dry	0.00538	1	07/24/09 16:30	SW846 8260B	9072531
Surr: 1,2-Dichloroethane-d4 (67-138%)	101 %					07/24/09 16:30	SW846 8260B	9072531
Surr: Dibromofluoromethane (75-125%)	100 %					07/24/09 16:30	SW846 8260B	9072531
Surr: Toluene-d8 (76-129%)	106 %					07/24/09 16:30	SW846 8260B	9072531
Surr: 4-Bromofluorobenzene (67-147%)	113 %					07/24/09 16:30	SW846 8260B	9072531
Polyaromatic Hydrocarbons by EPA 8270D								
Accnaphthene	ND		mg/kg dry	0.0845	1	07/19/09 20:39	SW846 8270D	9072561
Acenaphthylene	ND		mg/kg dry	0.0845	1	07/19/09 20:39	SW846 8270D	9072561
Anthracene	ND		mg/kg dry	0.0845	1	07/19/09 20:39	SW846 8270D	9072561
Benzo (a) anthracene	ND		mg/kg dry	0.0845	1	07/19/09 20:39	SW846 8270D	9072561
Benzo (a) pyrene	ND		mg/kg dry	0.0845	1	07/19/09 20:39	SW846 8270D	9072561
Benzo (b) fluoranthene	ND		mg/kg dry	0.0845	1	07/19/09 20:39	SW846 8270D	9072561
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0845	1	07/19/09 20:39	SW846 8270D	9072561
Benzo (k) fluoranthene	ND		mg/kg dry	0.0845	1	07/19/09 20:39	SW846 8270D	9072561
Chrysene	ND		mg/kg dry	0.0845	1	07/19/09 20:39	SW846 8270D	9072561
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0845	1	07/19/09 20:39	SW846 8270D	9072561
Fluoranthene	ND		mg/kg dry	0.0845	1	07/19/09 20:39	SW846 8270D	9072561
Fluorene	ND		mg/kg dry	0.0845	1	07/19/09 20:39	SW846 8270D	9072561
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0845	1	07/19/09 20:39	SW846 8270D	9072561
Naphthalene	ND		mg/kg dry	0.0845	1	07/19/09 20:39	SW846 8270D	9072561
Phenanthrene	ND		mg/kg dry	0.0845	1	07/19/09 20:39	SW846 8270D	9072561
Pyrene	ND		mg/kg dry	0.0845	1	07/19/09 20:39	SW846 8270D	9072561
1-Methylnaphthalene	ND		mg/kg dry	0.0845	1	07/19/09 20:39	SW846 8270D	9072561
2-Methylnaphthalene	ND		mg/kg dry	0.0845	1	07/19/09 20:39	SW846 8270D	9072561
Surr: Terphenyl-d14 (18-120%)	80 %					07/19/09 20:39	SW846 8270D	9072561
Surr: 2-Fluorobiphenyl (14-120%)	63 %					07/19/09 20:39	SW846 8270D	9072561
Surr: Nitrobenzene-d5 (17-120%)	59 %					07/19/09 20:39	SW846 8270D	9072561

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

Work Order: NSG1390
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/17/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSG1390-02 (1377 Dove - Soil) Sampled: 07/13/09 09:50								
General Chemistry Parameters								
% Dry Solids	83.5		%	0.500	1	07/28/09 08:49	SW-846	9073886
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg dry	0.00216	1	07/24/09 17:02	SW846 8260B	9072531
Ethylbenzene	0.0367		mg/kg dry	0.00216	1	07/24/09 17:02	SW846 8260B	9072531
Naphthalene	1.45		mg/kg dry	0.271	50	07/27/09 17:53	SW846 8260B	9074052
Toluene	0.00577		mg/kg dry	0.00216	1	07/24/09 17:02	SW846 8260B	9072531
Xylenes, total	0.0976		mg/kg dry	0.00539	1	07/24/09 17:02	SW846 8260B	9072531
Surr: 1,2-Dichloroethane-d4 (67-138%)	107 %					07/24/09 17:02	SW846 8260B	9072531
Surr: 1,2-Dichloroethane-d4 (67-138%)	97 %					07/27/09 17:53	SW846 8260B	9074052
Surr: Dibromofluoromethane (75-125%)	103 %					07/24/09 17:02	SW846 8260B	9072531
Surr: Dibromofluoromethane (75-125%)	94 %					07/27/09 17:53	SW846 8260B	9074052
Surr: Toluene-d8 (76-129%)	174 %	ZX				07/24/09 17:02	SW846 8260B	9072531
Surr: Toluene-d8 (76-129%)	112 %					07/27/09 17:53	SW846 8260B	9074052
Surr: 4-Bromofluorobenzene (67-147%)	651 %	ZX				07/24/09 17:02	SW846 8260B	9072531
Surr: 4-Bromofluorobenzene (67-147%)	111 %					07/27/09 17:53	SW846 8260B	9074052
Polyaromatic Hydrocarbons by EPA 8270D								
Acenaphthene	ND		mg/kg dry	0.801	10	07/20/09 20:34	SW846 8270D	9072561
Acenaphthylene	ND		mg/kg dry	0.801	10	07/20/09 20:34	SW846 8270D	9072561
Anthracene	ND		mg/kg dry	0.801	10	07/20/09 20:34	SW846 8270D	9072561
Benzo (a) anthracene	1.84		mg/kg dry	0.801	10	07/20/09 20:34	SW846 8270D	9072561
Benzo (a) pyrene	1.04		mg/kg dry	0.801	10	07/20/09 20:34	SW846 8270D	9072561
Benzo (b) fluoranthene	1.53		mg/kg dry	0.801	10	07/20/09 20:34	SW846 8270D	9072561
Benzo (g,h,i) perylene	ND		mg/kg dry	0.801	10	07/20/09 20:34	SW846 8270D	9072561
Benzo (k) fluoranthene	0.821		mg/kg dry	0.801	10	07/20/09 20:34	SW846 8270D	9072561
Chrysene	2.10		mg/kg dry	0.801	10	07/20/09 20:34	SW846 8270D	9072561
Dibenz (a,h) anthracene	ND		mg/kg dry	0.801	10	07/20/09 20:34	SW846 8270D	9072561
Fluoranthene	3.02		mg/kg dry	0.801	10	07/20/09 20:34	SW846 8270D	9072561
Fluorene	1.82		mg/kg dry	0.801	10	07/20/09 20:34	SW846 8270D	9072561
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.801	10	07/20/09 20:34	SW846 8270D	9072561
Naphthalene	1.14		mg/kg dry	0.801	10	07/20/09 20:34	SW846 8270D	9072561
Phenanthrene	4.41		mg/kg dry	0.801	10	07/20/09 20:34	SW846 8270D	9072561
Pyrene	4.06		mg/kg dry	0.801	10	07/20/09 20:34	SW846 8270D	9072561
1-Methylnaphthalene	6.55		mg/kg dry	0.801	10	07/20/09 20:34	SW846 8270D	9072561
2-Methylnaphthalene	6.57		mg/kg dry	0.801	10	07/20/09 20:34	SW846 8270D	9072561
Surr: Terphenyl-d14 (18-120%)	74 %					07/20/09 20:34	SW846 8270D	9072561
Surr: 2-Fluorobiphenyl (14-120%)	5 %	ZX				07/20/09 20:34	SW846 8270D	9072561
Surr: Nitrobenzene-d5 (17-120%)	64 %					07/20/09 20:34	SW846 8270D	9072561

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

Work Order: NSG1390
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/17/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSG1390-03 (1376 Dove - Soil) Sampled: 07/13/09 15:10								
General Chemistry Parameters								
% Dry Solids	88.8		%	0.500	1	07/28/09 08:49	SW-846	9073886
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg dry	0.00228	1	07/24/09 17:33	SW846 8260B	9072531
Ethylbenzene	ND		mg/kg dry	0.00228	1	07/24/09 17:33	SW846 8260B	9072531
Naphthalene	ND		mg/kg dry	0.00569	1	07/24/09 17:33	SW846 8260B	9072531
Toluene	ND		mg/kg dry	0.00228	1	07/24/09 17:33	SW846 8260B	9072531
Xylenes, total	ND		mg/kg dry	0.00569	1	07/24/09 17:33	SW846 8260B	9072531
Surr: 1,2-Dichloroethane-d4 (67-138%)	100 %					07/24/09 17:33	SW846 8260B	9072531
Surr: Dibromofluoromethane (75-125%)	97 %					07/24/09 17:33	SW846 8260B	9072531
Surr: Toluene-d8 (76-129%)	103 %					07/24/09 17:33	SW846 8260B	9072531
Surr: 4-Bromofluorobenzene (67-147%)	117 %					07/24/09 17:33	SW846 8260B	9072531
Polyaromatic Hydrocarbons by EPA 8270D								
Accenaphthene	ND		mg/kg dry	0.0736	1	07/19/09 21:22	SW846 8270D	9072561
Accenaphthylene	ND		mg/kg dry	0.0736	1	07/19/09 21:22	SW846 8270D	9072561
Anthracene	ND		mg/kg dry	0.0736	1	07/19/09 21:22	SW846 8270D	9072561
Benzo (a) anthracene	ND		mg/kg dry	0.0736	1	07/19/09 21:22	SW846 8270D	9072561
Benzo (a) pyrene	0.368		mg/kg dry	0.0736	1	07/19/09 21:22	SW846 8270D	9072561
Benzo (b) fluoranthene	0.202		mg/kg dry	0.0736	1	07/19/09 21:22	SW846 8270D	9072561
Benzo (g,h,i) perylene	0.142		mg/kg dry	0.0736	1	07/19/09 21:22	SW846 8270D	9072561
Benzo (k) fluoranthene	ND		mg/kg dry	0.0736	1	07/19/09 21:22	SW846 8270D	9072561
Chrysene	ND		mg/kg dry	0.0736	1	07/19/09 21:22	SW846 8270D	9072561
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0736	1	07/19/09 21:22	SW846 8270D	9072561
Fluoranthene	ND		mg/kg dry	0.0736	1	07/19/09 21:22	SW846 8270D	9072561
Fluorene	ND		mg/kg dry	0.0736	1	07/19/09 21:22	SW846 8270D	9072561
Indeno (1,2,3-cd) pyrene	0.111		mg/kg dry	0.0736	1	07/19/09 21:22	SW846 8270D	9072561
Naphthalene	ND		mg/kg dry	0.0736	1	07/19/09 21:22	SW846 8270D	9072561
Phenanthrene	ND		mg/kg dry	0.0736	1	07/19/09 21:22	SW846 8270D	9072561
Pyrene	ND		mg/kg dry	0.0736	1	07/19/09 21:22	SW846 8270D	9072561
1-Methylnaphthalene	ND		mg/kg dry	0.0736	1	07/19/09 21:22	SW846 8270D	9072561
2-Methylnaphthalene	ND		mg/kg dry	0.0736	1	07/19/09 21:22	SW846 8270D	9072561
Surr: Terphenyl-d14 (18-120%)	74 %					07/19/09 21:22	SW846 8270D	9072561
Surr: 2-Fluorobiphenyl (14-120%)	56 %					07/19/09 21:22	SW846 8270D	9072561
Surr: Nitrobenzene-d5 (17-120%)	58 %					07/19/09 21:22	SW846 8270D	9072561

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

Work Order: NSG1390
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/17/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSG1390-04 (1382 Dove - Soil) Sampled: 07/13/09 13:30								
General Chemistry Parameters								
% Dry Solids	84.0		%	0.500	1	07/28/09 08:49	SW-846	9073886
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg dry	0.00224	1	07/24/09 18:08	SW846 8260B	9072531
Ethylbenzene	0.201		mg/kg dry	0.00224	1	07/24/09 18:08	SW846 8260B	9072531
Naphthalene	6.89		mg/kg dry	0.299	50	07/27/09 18:24	SW846 8260B	9074052
Toluene	0.0370		mg/kg dry	0.00224	1	07/24/09 18:08	SW846 8260B	9072531
Xylenes, total	1.52		mg/kg dry	0.299	50	07/27/09 18:24	SW846 8260B	9074052
Surr: 1,2-Dichloroethane-d4 (67-138%)	101 %					07/24/09 18:08	SW846 8260B	9072531
Surr: 1,2-Dichloroethane-d4 (67-138%)	96 %					07/27/09 18:24	SW846 8260B	9074052
Surr: Dibromofluoromethane (75-125%)	99 %					07/24/09 18:08	SW846 8260B	9072531
Surr: Dibromofluoromethane (75-125%)	94 %					07/27/09 18:24	SW846 8260B	9074052
Surr: Toluene-d8 (76-129%)	129 %					07/24/09 18:08	SW846 8260B	9072531
Surr: Toluene-d8 (76-129%)	106 %					07/27/09 18:24	SW846 8260B	9074052
Surr: 4-Bromofluorobenzene (67-147%)	670 %	ZX				07/24/09 18:08	SW846 8260B	9072531
Surr: 4-Bromofluorobenzene (67-147%)	109 %					07/27/09 18:24	SW846 8260B	9074052
Polyaromatic Hydrocarbons by EPA 8270D								
Acenaphthene	ND		mg/kg dry	0.787	10	07/20/09 20:55	SW846 8270D	9072561
Acenaphthylene	ND		mg/kg dry	0.787	10	07/20/09 20:55	SW846 8270D	9072561
Anthracene	ND		mg/kg dry	0.787	10	07/20/09 20:55	SW846 8270D	9072561
Benzo (a) anthracene	1.69		mg/kg dry	0.787	10	07/20/09 20:55	SW846 8270D	9072561
Benzo (a) pyrene	ND		mg/kg dry	0.787	10	07/20/09 20:55	SW846 8270D	9072561
Benzo (b) fluoranthene	0.811		mg/kg dry	0.787	10	07/20/09 20:55	SW846 8270D	9072561
Benzo (g,h,i) perylene	ND		mg/kg dry	0.787	10	07/20/09 20:55	SW846 8270D	9072561
Benzo (k) fluoranthene	ND		mg/kg dry	0.787	10	07/20/09 20:55	SW846 8270D	9072561
Chrysene	1.43		mg/kg dry	0.787	10	07/20/09 20:55	SW846 8270D	9072561
Dibenz (a,h) anthracene	ND		mg/kg dry	0.787	10	07/20/09 20:55	SW846 8270D	9072561
Fluoranthene	4.62		mg/kg dry	0.787	10	07/20/09 20:55	SW846 8270D	9072561
Fluorene	1.31		mg/kg dry	0.787	10	07/20/09 20:55	SW846 8270D	9072561
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.787	10	07/20/09 20:55	SW846 8270D	9072561
Naphthalene	2.31		mg/kg dry	0.787	10	07/20/09 20:55	SW846 8270D	9072561
Phenanthrene	4.02		mg/kg dry	0.787	10	07/20/09 20:55	SW846 8270D	9072561
Pyrene	3.81		mg/kg dry	0.787	10	07/20/09 20:55	SW846 8270D	9072561
1-Methylnaphthalene	6.27		mg/kg dry	0.787	10	07/20/09 20:55	SW846 8270D	9072561
2-Methylnaphthalene	8.85		mg/kg dry	0.787	10	07/20/09 20:55	SW846 8270D	9072561
Surr: Terphenyl-d14 (18-120%)	75 %					07/20/09 20:55	SW846 8270D	9072561
Surr: 2-Fluorobiphenyl (14-120%)	4 %	ZX				07/20/09 20:55	SW846 8270D	9072561
Surr: Nitrobenzene-d5 (17-120%)	60 %					07/20/09 20:55	SW846 8270D	9072561

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

Work Order: NSG1390
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/17/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSG1390-05 (1381 Dove - Soil) Sampled: 07/14/09 10:15								
General Chemistry Parameters								
% Dry Solids	79.1		%	0.500	1	07/28/09 08:49	SW-846	9073886
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	0.00527		mg/kg dry	0.00212	1	07/25/09 18:10	SW846 8260B	9074033
Ethylbenzene	2.07		mg/kg dry	0.107	50	07/28/09 15:51	SW846 8260B	9073642
Naphthalene	23.7		mg/kg dry	5.33	1000	07/28/09 16:22	SW846 8260B	9073642
Toluene	ND		mg/kg dry	0.00212	1	07/25/09 18:10	SW846 8260B	9074033
Xylenes, total	0.0383		mg/kg dry	0.00531	1	07/25/09 18:10	SW846 8260B	9074033
Surr: 1,2-Dichloroethane-d4 (67-138%)	119 %					07/25/09 18:10	SW846 8260B	9074033
Surr: 1,2-Dichloroethane-d4 (67-138%)	94 %					07/28/09 15:51	SW846 8260B	9073642
Surr: 1,2-Dichloroethane-d4 (67-138%)	99 %					07/28/09 16:22	SW846 8260B	9073642
Surr: Dibromofluoromethane (75-125%)	108 %					07/25/09 18:10	SW846 8260B	9074033
Surr: Dibromofluoromethane (75-125%)	94 %					07/28/09 15:51	SW846 8260B	9073642
Surr: Dibromofluoromethane (75-125%)	98 %					07/28/09 16:22	SW846 8260B	9073642
Surr: Toluene-d8 (76-129%)	566 %	ZX				07/25/09 18:10	SW846 8260B	9074033
Surr: Toluene-d8 (76-129%)	117 %					07/28/09 15:51	SW846 8260B	9073642
Surr: Toluene-d8 (76-129%)	105 %					07/28/09 16:22	SW846 8260B	9073642
Surr: 4-Bromofluorobenzene (67-147%)	553 %	ZX				07/25/09 18:10	SW846 8260B	9074033
Surr: 4-Bromofluorobenzene (67-147%)	117 %					07/28/09 15:51	SW846 8260B	9073642
Surr: 4-Bromofluorobenzene (67-147%)	110 %					07/28/09 16:22	SW846 8260B	9073642
Polyaromatic Hydrocarbons by EPA 8270D								
Acenaphthene	ND		mg/kg dry	0.835	10	07/20/09 21:16	SW846 8270D	9072561
Acenaphthylene	ND		mg/kg dry	0.835	10	07/20/09 21:16	SW846 8270D	9072561
Anthracene	ND		mg/kg dry	0.835	10	07/20/09 21:16	SW846 8270D	9072561
Benzo (a) anthracene	ND		mg/kg dry	0.835	10	07/20/09 21:16	SW846 8270D	9072561
Benzo (a) pyrene	ND		mg/kg dry	0.835	10	07/20/09 21:16	SW846 8270D	9072561
Benzo (b) fluoranthene	ND		mg/kg dry	0.835	10	07/20/09 21:16	SW846 8270D	9072561
Benzo (g,h,i) perylene	ND		mg/kg dry	0.835	10	07/20/09 21:16	SW846 8270D	9072561
Benzo (k) fluoranthene	ND		mg/kg dry	0.835	10	07/20/09 21:16	SW846 8270D	9072561
Chrysene	ND		mg/kg dry	0.835	10	07/20/09 21:16	SW846 8270D	9072561
Dibenz (a,h) anthracene	ND		mg/kg dry	0.835	10	07/20/09 21:16	SW846 8270D	9072561
Fluoranthene	ND		mg/kg dry	0.835	10	07/20/09 21:16	SW846 8270D	9072561
Fluorene	4.60		mg/kg dry	0.835	10	07/20/09 21:16	SW846 8270D	9072561
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.835	10	07/20/09 21:16	SW846 8270D	9072561
Naphthalene	8.57		mg/kg dry	0.835	10	07/20/09 21:16	SW846 8270D	9072561
Phenanthrene	10.2		mg/kg dry	0.835	10	07/20/09 21:16	SW846 8270D	9072561
Pyrene	ND		mg/kg dry	0.835	10	07/20/09 21:16	SW846 8270D	9072561
1-Methylnaphthalene	36.1		mg/kg dry	0.835	10	07/20/09 21:16	SW846 8270D	9072561
2-Methylnaphthalene	56.3		mg/kg dry	4.18	50	07/21/09 15:40	SW846 8270D	9072561
Surr: Terphenyl-d14 (18-120%)	59 %					07/20/09 21:16	SW846 8270D	9072561
Surr: 2-Fluorobiphenyl (14-120%)	43 %					07/20/09 21:16	SW846 8270D	9072561
Surr: Nitrobenzene-d5 (17-120%)	45 %					07/20/09 21:16	SW846 8270D	9072561

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

Work Order: NSG1390
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/17/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSG1390-06 (1385 Dove - Soil) Sampled: 07/14/09 15:10								
General Chemistry Parameters								
% Dry Solids	82.0		%	0.500	1	07/28/09 08:49	SW-846	9073886
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	0.00500		mg/kg dry	0.00197	1	07/25/09 18:41	SW846 8260B	9074033
Ethylbenzene	2.90		mg/kg dry	0.110	50	07/28/09 16:53	SW846 8260B	9073642
Naphthalene	20.6		mg/kg dry	5.51	1000	07/28/09 17:24	SW846 8260B	9073642
Toluene	ND		mg/kg dry	0.00197	1	07/25/09 18:41	SW846 8260B	9074033
Xylenes, total	3.75		mg/kg dry	0.276	50	07/28/09 16:53	SW846 8260B	9073642
Surr: 1,2-Dichloroethane-d4 (67-138%)	92 %					07/25/09 18:41	SW846 8260B	9074033
Surr: 1,2-Dichloroethane-d4 (67-138%)	96 %					07/28/09 16:53	SW846 8260B	9073642
Surr: 1,2-Dichloroethane-d4 (67-138%)	98 %					07/28/09 17:24	SW846 8260B	9073642
Surr: Dibromofluoromethane (75-125%)	92 %					07/25/09 18:41	SW846 8260B	9074033
Surr: Dibromofluoromethane (75-125%)	94 %					07/28/09 16:53	SW846 8260B	9073642
Surr: Dibromofluoromethane (75-125%)	97 %					07/28/09 17:24	SW846 8260B	9073642
Surr: Toluene-d8 (76-129%)	219 %	ZX				07/25/09 18:41	SW846 8260B	9074033
Surr: Toluene-d8 (76-129%)	119 %					07/28/09 16:53	SW846 8260B	9073642
Surr: Toluene-d8 (76-129%)	105 %					07/28/09 17:24	SW846 8260B	9073642
Surr: 4-Bromofluorobenzene (67-147%)	352 %	ZX				07/25/09 18:41	SW846 8260B	9074033
Surr: 4-Bromofluorobenzene (67-147%)	117 %					07/28/09 16:53	SW846 8260B	9073642
Surr: 4-Bromofluorobenzene (67-147%)	108 %					07/28/09 17:24	SW846 8260B	9073642
Polyaromatic Hydrocarbons by EPA 8270D								
Acenaphthene	ND		mg/kg dry	0.797	10	07/20/09 21:37	SW846 8270D	9072561
Acenaphthylene	ND		mg/kg dry	0.797	10	07/20/09 21:37	SW846 8270D	9072561
Anthracene	ND		mg/kg dry	0.797	10	07/20/09 21:37	SW846 8270D	9072561
Benzo (a) anthracene	1.17		mg/kg dry	0.797	10	07/20/09 21:37	SW846 8270D	9072561
Benzo (a) pyrene	ND		mg/kg dry	0.797	10	07/20/09 21:37	SW846 8270D	9072561
Benzo (b) fluoranthene	ND		mg/kg dry	0.797	10	07/20/09 21:37	SW846 8270D	9072561
Benzo (g,h,i) perylene	ND		mg/kg dry	0.797	10	07/20/09 21:37	SW846 8270D	9072561
Benzo (k) fluoranthene	ND		mg/kg dry	0.797	10	07/20/09 21:37	SW846 8270D	9072561
Chrysene	1.36		mg/kg dry	0.797	10	07/20/09 21:37	SW846 8270D	9072561
Dibenz (a,h) anthracene	ND		mg/kg dry	0.797	10	07/20/09 21:37	SW846 8270D	9072561
Fluoranthene	2.83		mg/kg dry	0.797	10	07/20/09 21:37	SW846 8270D	9072561
Fluorene	5.11		mg/kg dry	0.797	10	07/20/09 21:37	SW846 8270D	9072561
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.797	10	07/20/09 21:37	SW846 8270D	9072561
Naphthalene	14.5		mg/kg dry	0.797	10	07/20/09 21:37	SW846 8270D	9072561
Phenanthrene	11.8		mg/kg dry	0.797	10	07/20/09 21:37	SW846 8270D	9072561
Pyrene	2.98		mg/kg dry	0.797	10	07/20/09 21:37	SW846 8270D	9072561
1-Methylnaphthalene	32.2		mg/kg dry	3.98	50	07/22/09 14:50	SW846 8270D	9072561
2-Methylnaphthalene	49.2		mg/kg dry	3.98	50	07/22/09 14:50	SW846 8270D	9072561
Surr: Terphenyl-d14 (18-120%)	80 %					07/20/09 21:37	SW846 8270D	9072561
Surr: 2-Fluorobiphenyl (14-120%)	7 %	ZX				07/20/09 21:37	SW846 8270D	9072561
Surr: Nitrobenzene-d5 (17-120%)	83 %					07/20/09 21:37	SW846 8270D	9072561

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

Work Order: NSG1390
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/17/09 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	9072561	NSG1390-01	30.19	1.00	07/18/09 12:25	AJK	EPA 3550B
SW846 8270D	9072561	NSG1390-02	30.06	1.00	07/18/09 12:25	AJK	EPA 3550B
SW846 8270D	9072561	NSG1390-02RE1	30.06	1.00	07/18/09 12:25	AJK	EPA 3550B
SW846 8270D	9072561	NSG1390-03	30.76	1.00	07/18/09 12:25	AJK	EPA 3550B
SW846 8270D	9072561	NSG1390-04	30.40	1.00	07/18/09 12:25	AJK	EPA 3550B
SW846 8270D	9072561	NSG1390-04RE1	30.40	1.00	07/18/09 12:25	AJK	EPA 3550B
SW846 8270D	9072561	NSG1390-05	30.42	1.00	07/18/09 12:25	AJK	EPA 3550B
SW846 8270D	9072561	NSG1390-05RE1	30.42	1.00	07/18/09 12:25	AJK	EPA 3550B
SW846 8270D	9072561	NSG1390-05RE2	30.42	1.00	07/18/09 12:25	AJK	EPA 3550B
SW846 8270D	9072561	NSG1390-06	30.77	1.00	07/18/09 12:25	AJK	EPA 3550B
SW846 8270D	9072561	NSG1390-06RE1	30.77	1.00	07/18/09 12:25	AJK	EPA 3550B
SW846 8270D	9072561	NSG1390-06RE2	30.77	1.00	07/18/09 12:25	AJK	EPA 3550B
Selected Volatile Organic Compounds by EPA Method 8260B							
SW846 8260B	9072531	NSG1390-01	5.90	5.00	07/13/09 10:00	JRL	EPA 5035
SW846 8260B	9072531	NSG1390-02	5.55	5.00	07/13/09 09:50	JRL	EPA 5035
SW846 8260B	9074052	NSG1390-02RE1	5.52	5.00	07/13/09 09:50	JRL	EPA 5035
SW846 8260B	9072531	NSG1390-03	4.95	5.00	07/13/09 15:10	JRL	EPA 5035
SW846 8260B	9072531	NSG1390-04	5.32	5.00	07/13/09 13:30	JRL	EPA 5035
SW846 8260B	9074052	NSG1390-04RE1	4.98	5.00	07/13/09 13:30	JRL	EPA 5035
SW846 8260B	9074052	NSG1390-04RE2	4.98	5.00	07/13/09 13:30	JRL	EPA 5035
SW846 8260B	9074033	NSG1390-05	5.95	5.00	07/14/09 10:15	JRL	EPA 5035
SW846 8260B	9074052	NSG1390-05RE1	5.93	5.00	07/14/09 10:15	JRL	EPA 5035
SW846 8260B	9073642	NSG1390-05RE2	5.93	5.00	07/14/09 10:15	JRL	EPA 5035
SW846 8260B	9073642	NSG1390-05RE3	5.93	5.00	07/14/09 10:15	JRL	EPA 5035
SW846 8260B	9074033	NSG1390-06	6.19	5.00	07/14/09 15:10	JRL	EPA 5035
SW846 8260B	9073642	NSG1390-06RE1	5.53	5.00	07/14/09 15:10	JRL	EPA 5035
SW846 8260B	9073642	NSG1390-06RE2	5.53	5.00	07/14/09 15:10	JRL	EPA 5035

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

Work Order: NSG1390
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/17/09 08:00

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
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Selected Volatile Organic Compounds by EPA Method 8260B

9072531-BLK1

Benzene	<0.000670		mg/kg wet	9072531	9072531-BLK1	07/24/09 15:59
Ethylbenzene	<0.000670		mg/kg wet	9072531	9072531-BLK1	07/24/09 15:59
Naphthalene	<0.00170		mg/kg wet	9072531	9072531-BLK1	07/24/09 15:59
Toluene	<0.000400		mg/kg wet	9072531	9072531-BLK1	07/24/09 15:59
Xylenes, total	<0.00130		mg/kg wet	9072531	9072531-BLK1	07/24/09 15:59
Surrogate: 1,2-Dichloroethane-d4	100%			9072531	9072531-BLK1	07/24/09 15:59
Surrogate: Dibromofluoromethane	98%			9072531	9072531-BLK1	07/24/09 15:59
Surrogate: Toluene-d8	105%			9072531	9072531-BLK1	07/24/09 15:59
Surrogate: 4-Bromofluorobenzene	104%			9072531	9072531-BLK1	07/24/09 15:59

9073642-BLK1

Benzene	<0.000670		mg/kg wet	9073642	9073642-BLK1	07/28/09 15:16
Ethylbenzene	<0.000670		mg/kg wet	9073642	9073642-BLK1	07/28/09 15:16
Naphthalene	<0.00170		mg/kg wet	9073642	9073642-BLK1	07/28/09 15:16
Toluene	<0.000400		mg/kg wet	9073642	9073642-BLK1	07/28/09 15:16
Xylenes, total	<0.00130		mg/kg wet	9073642	9073642-BLK1	07/28/09 15:16
Surrogate: 1,2-Dichloroethane-d4	102%			9073642	9073642-BLK1	07/28/09 15:16
Surrogate: Dibromofluoromethane	98%			9073642	9073642-BLK1	07/28/09 15:16
Surrogate: Toluene-d8	108%			9073642	9073642-BLK1	07/28/09 15:16
Surrogate: 4-Bromofluorobenzene	110%			9073642	9073642-BLK1	07/28/09 15:16

9074033-BLK1

Benzene	<0.000670		mg/kg wet	9074033	9074033-BLK1	07/25/09 17:34
Ethylbenzene	<0.000670		mg/kg wet	9074033	9074033-BLK1	07/25/09 17:34
Naphthalene	<0.00170		mg/kg wet	9074033	9074033-BLK1	07/25/09 17:34
Toluene	<0.000400		mg/kg wet	9074033	9074033-BLK1	07/25/09 17:34
Xylenes, total	<0.00130		mg/kg wet	9074033	9074033-BLK1	07/25/09 17:34
Surrogate: 1,2-Dichloroethane-d4	99%			9074033	9074033-BLK1	07/25/09 17:34
Surrogate: Dibromofluoromethane	99%			9074033	9074033-BLK1	07/25/09 17:34
Surrogate: Toluene-d8	105%			9074033	9074033-BLK1	07/25/09 17:34
Surrogate: 4-Bromofluorobenzene	110%			9074033	9074033-BLK1	07/25/09 17:34

9074052-BLK1

Benzene	<0.000670		mg/kg wet	9074052	9074052-BLK1	07/27/09 16:19
Ethylbenzene	<0.000670		mg/kg wet	9074052	9074052-BLK1	07/27/09 16:19
Naphthalene	<0.00170		mg/kg wet	9074052	9074052-BLK1	07/27/09 16:19
Toluene	<0.000400		mg/kg wet	9074052	9074052-BLK1	07/27/09 16:19
Xylenes, total	<0.00130		mg/kg wet	9074052	9074052-BLK1	07/27/09 16:19
Surrogate: 1,2-Dichloroethane-d4	101%			9074052	9074052-BLK1	07/27/09 16:19
Surrogate: Dibromofluoromethane	97%			9074052	9074052-BLK1	07/27/09 16:19
Surrogate: Toluene-d8	107%			9074052	9074052-BLK1	07/27/09 16:19
Surrogate: 4-Bromofluorobenzene	109%			9074052	9074052-BLK1	07/27/09 16:19

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

Work Order: NSG1390
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/17/09 08:00

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
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Selected Volatile Organic Compounds by EPA Method 8260B

Polyaromatic Hydrocarbons by EPA 8270D

9072561-BLK1

Acenaphthene	<0.0320		mg/kg wet	9072561	9072561-BLK1	07/19/09 17:27
Acenaphthylene	<0.0310		mg/kg wet	9072561	9072561-BLK1	07/19/09 17:27
Anthracene	<0.0330		mg/kg wet	9072561	9072561-BLK1	07/19/09 17:27
Benzo (a) anthracene	<0.0380		mg/kg wet	9072561	9072561-BLK1	07/19/09 17:27
Benzo (a) pyrene	<0.0300		mg/kg wet	9072561	9072561-BLK1	07/19/09 17:27
Benzo (b) fluoranthene	<0.0300		mg/kg wet	9072561	9072561-BLK1	07/19/09 17:27
Benzo (g,h,i) perylene	<0.0300		mg/kg wet	9072561	9072561-BLK1	07/19/09 17:27
Benzo (k) fluoranthene	<0.0300		mg/kg wet	9072561	9072561-BLK1	07/19/09 17:27
Chrysene	<0.0400		mg/kg wet	9072561	9072561-BLK1	07/19/09 17:27
Dibenz (a,h) anthracene	<0.0310		mg/kg wet	9072561	9072561-BLK1	07/19/09 17:27
Fluoranthene	<0.0340		mg/kg wet	9072561	9072561-BLK1	07/19/09 17:27
Fluorene	<0.0360		mg/kg wet	9072561	9072561-BLK1	07/19/09 17:27
Indeno (1,2,3-cd) pyrene	<0.0310		mg/kg wet	9072561	9072561-BLK1	07/19/09 17:27
Naphthalene	<0.0410		mg/kg wet	9072561	9072561-BLK1	07/19/09 17:27
Phenanthrene	<0.0340		mg/kg wet	9072561	9072561-BLK1	07/19/09 17:27
Pyrene	<0.0410		mg/kg wet	9072561	9072561-BLK1	07/19/09 17:27
1-Methylnaphthalene	<0.0320		mg/kg wet	9072561	9072561-BLK1	07/19/09 17:27
2-Methylnaphthalene	<0.0330		mg/kg wet	9072561	9072561-BLK1	07/19/09 17:27
Surrogate: Terphenyl-d14	101%			9072561	9072561-BLK1	07/19/09 17:27
Surrogate: 2-Fluorobiphenyl	71%			9072561	9072561-BLK1	07/19/09 17:27
Surrogate: Nitrobenzene-d5	68%			9072561	9072561-BLK1	07/19/09 17:27

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

Work Order: NSG1390
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/17/09 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										
9073886-DUP1										
% Dry Solids	78.8	79.6		%	1	20	9073886	NSG1390-01		07/28/09 08:49

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

Work Order: NSG1390
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/17/09 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								
9072531-BS1								
Benzene	50.0	49.5		ug/kg	99%	78 - 126	9072531	07/24/09 13:38
Ethylbenzene	50.0	62.7		ug/kg	125%	79 - 130	9072531	07/24/09 13:38
Naphthalene	50.0	63.2		ug/kg	126%	72 - 150	9072531	07/24/09 13:38
Toluene	50.0	57.1		ug/kg	114%	76 - 126	9072531	07/24/09 13:38
Xylenes, total	150	191		ug/kg	128%	80 - 130	9072531	07/24/09 13:38
Surrogate: 1,2-Dichloroethane-d4	50.0	47.7			95%	67 - 138	9072531	07/24/09 13:38
Surrogate: Dibromofluoromethane	50.0	49.1			98%	75 - 125	9072531	07/24/09 13:38
Surrogate: Toluene-d8	50.0	52.7			105%	76 - 129	9072531	07/24/09 13:38
Surrogate: 4-Bromofluorobenzene	50.0	50.4			101%	67 - 147	9072531	07/24/09 13:38
9073642-BS1								
Benzene	50.0	49.6		ug/kg	99%	78 - 126	9073642	07/28/09 13:41
Ethylbenzene	50.0	59.2		ug/kg	118%	79 - 130	9073642	07/28/09 13:41
Naphthalene	50.0	66.9		ug/kg	134%	72 - 150	9073642	07/28/09 13:41
Toluene	50.0	55.5		ug/kg	111%	76 - 126	9073642	07/28/09 13:41
Xylenes, total	150	177		ug/kg	118%	80 - 130	9073642	07/28/09 13:41
Surrogate: 1,2-Dichloroethane-d4	50.0	52.3			105%	67 - 138	9073642	07/28/09 13:41
Surrogate: Dibromofluoromethane	50.0	49.9			100%	75 - 125	9073642	07/28/09 13:41
Surrogate: Toluene-d8	50.0	53.1			106%	76 - 129	9073642	07/28/09 13:41
Surrogate: 4-Bromofluorobenzene	50.0	53.8			108%	67 - 147	9073642	07/28/09 13:41
9074033-BS1								
Benzene	50.0	50.6		ug/kg	101%	78 - 126	9074033	07/25/09 15:10
Ethylbenzene	50.0	50.0		ug/kg	100%	79 - 130	9074033	07/25/09 15:10
Naphthalene	50.0	54.8		ug/kg	110%	72 - 150	9074033	07/25/09 15:10
Toluene	50.0	51.8		ug/kg	104%	76 - 126	9074033	07/25/09 15:10
Xylenes, total	150	145		ug/kg	97%	80 - 130	9074033	07/25/09 15:10
Surrogate: 1,2-Dichloroethane-d4	50.0	51.1			102%	67 - 138	9074033	07/25/09 15:10
Surrogate: Dibromofluoromethane	50.0	51.2			102%	75 - 125	9074033	07/25/09 15:10
Surrogate: Toluene-d8	50.0	52.6			105%	76 - 129	9074033	07/25/09 15:10
Surrogate: 4-Bromofluorobenzene	50.0	57.8			116%	67 - 147	9074033	07/25/09 15:10
9074052-BS1								
Benzene	50.0	50.0		ug/kg	100%	78 - 126	9074052	07/27/09 14:10
Ethylbenzene	50.0	57.8		ug/kg	116%	79 - 130	9074052	07/27/09 14:10
Naphthalene	50.0	60.8		ug/kg	122%	72 - 150	9074052	07/27/09 14:10
Toluene	50.0	53.8		ug/kg	108%	76 - 126	9074052	07/27/09 14:10
Xylenes, total	150	172		ug/kg	115%	80 - 130	9074052	07/27/09 14:10
Surrogate: 1,2-Dichloroethane-d4	50.0	52.2			104%	67 - 138	9074052	07/27/09 14:10
Surrogate: Dibromofluoromethane	50.0	49.8			100%	75 - 125	9074052	07/27/09 14:10
Surrogate: Toluene-d8	50.0	52.4			105%	76 - 129	9074052	07/27/09 14:10
Surrogate: 4-Bromofluorobenzene	50.0	52.0			104%	67 - 147	9074052	07/27/09 14:10

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

Work Order: NSG1390
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/17/09 08:00

PROJECT QUALITY CONTROL DATA LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Selected Volatile Organic Compounds by EPA Method 8260B								
Polyaromatic Hydrocarbons by EPA 8270D								
9072561-BS1								
Acenaphthene	1.67	1.43		mg/kg wet	86%	49 - 120	9072561	07/19/09 17:48
Acenaphthylene	1.67	1.52		mg/kg wet	91%	52 - 120	9072561	07/19/09 17:48
Anthracene	1.67	1.72		mg/kg wet	103%	58 - 120	9072561	07/19/09 17:48
Benzo (a) anthracene	1.67	1.64		mg/kg wet	98%	57 - 120	9072561	07/19/09 17:48
Benzo (a) pyrene	1.67	1.69		mg/kg wet	102%	55 - 120	9072561	07/19/09 17:48
Benzo (b) fluoranthene	1.67	1.50		mg/kg wet	90%	51 - 123	9072561	07/19/09 17:48
Benzo (g,h,i) perylene	1.67	1.72		mg/kg wet	103%	49 - 121	9072561	07/19/09 17:48
Benzo (k) fluoranthene	1.67	1.62		mg/kg wet	97%	42 - 129	9072561	07/19/09 17:48
Chrysene	1.67	1.59		mg/kg wet	95%	55 - 120	9072561	07/19/09 17:48
Dibenz (a,h) anthracene	1.67	1.76		mg/kg wet	106%	50 - 123	9072561	07/19/09 17:48
Fluoranthene	1.67	1.54		mg/kg wet	92%	58 - 120	9072561	07/19/09 17:48
Fluorene	1.67	1.48		mg/kg wet	89%	54 - 120	9072561	07/19/09 17:48
Indeno (1,2,3-cd) pyrene	1.67	1.77		mg/kg wet	106%	50 - 122	9072561	07/19/09 17:48
Naphthalene	1.67	1.38		mg/kg wet	83%	28 - 107	9072561	07/19/09 17:48
Phenanthrene	1.67	1.56		mg/kg wet	94%	56 - 120	9072561	07/19/09 17:48
Pyrene	1.67	1.61		mg/kg wet	97%	56 - 120	9072561	07/19/09 17:48
1-Methylnaphthalene	1.67	1.23		mg/kg wet	74%	36 - 120	9072561	07/19/09 17:48
2-Methylnaphthalene	1.67	1.27		mg/kg wet	76%	36 - 120	9072561	07/19/09 17:48
Surrogate: Terphenyl-d14	1.67	1.60			96%	18 - 120	9072561	07/19/09 17:48
Surrogate: 2-Fluorobiphenyl	1.67	1.50			90%	14 - 120	9072561	07/19/09 17:48
Surrogate: Nitrobenzene-d5	1.67	1.21			72%	17 - 120	9072561	07/19/09 17:48

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

Work Order: NSG1390
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/17/09 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												
9072531-BSD1												
Benzene		48.7		ug/kg	50.0	97%	78 - 126	2	50	9072531		07/24/09 14:10
Ethylbenzene		60.9		ug/kg	50.0	122%	79 - 130	3	50	9072531		07/24/09 14:10
Naphthalene		67.7		ug/kg	50.0	135%	72 - 150	7	50	9072531		07/24/09 14:10
Toluene		54.9		ug/kg	50.0	110%	76 - 126	4	50	9072531		07/24/09 14:10
Xylenes, total		187		ug/kg	150	124%	80 - 130	3	50	9072531		07/24/09 14:10
Surrogate: 1,2-Dichloroethane-d4		50.6		ug/kg	50.0	101%	67 - 138			9072531		07/24/09 14:10
Surrogate: Dibromofluoromethane		49.6		ug/kg	50.0	99%	75 - 125			9072531		07/24/09 14:10
Surrogate: Toluene-d8		51.9		ug/kg	50.0	104%	76 - 129			9072531		07/24/09 14:10
Surrogate: 4-Bromofluorobenzene		50.6		ug/kg	50.0	101%	67 - 147			9072531		07/24/09 14:10
9073642-BSD1												
Benzene		49.1		ug/kg	50.0	98%	78 - 126	1	50	9073642		07/28/09 14:12
Ethylbenzene		59.0		ug/kg	50.0	118%	79 - 130	0.4	50	9073642		07/28/09 14:12
Naphthalene		54.7		ug/kg	50.0	109%	72 - 150	20	50	9073642		07/28/09 14:12
Toluene		54.2		ug/kg	50.0	108%	76 - 126	2	50	9073642		07/28/09 14:12
Xylenes, total		175		ug/kg	150	117%	80 - 130	1	50	9073642		07/28/09 14:12
Surrogate: 1,2-Dichloroethane-d4		49.8		ug/kg	50.0	100%	67 - 138			9073642		07/28/09 14:12
Surrogate: Dibromofluoromethane		48.7		ug/kg	50.0	97%	75 - 125			9073642		07/28/09 14:12
Surrogate: Toluene-d8		52.4		ug/kg	50.0	105%	76 - 129			9073642		07/28/09 14:12
Surrogate: 4-Bromofluorobenzene		53.1		ug/kg	50.0	106%	67 - 147			9073642		07/28/09 14:12
9074033-BSD1												
Benzene		51.8		ug/kg	50.0	104%	78 - 126	2	50	9074033		07/25/09 15:58
Ethylbenzene		53.0		ug/kg	50.0	106%	79 - 130	6	50	9074033		07/25/09 15:58
Naphthalene		49.0		ug/kg	50.0	98%	72 - 150	11	50	9074033		07/25/09 15:58
Toluene		53.0		ug/kg	50.0	106%	76 - 126	2	50	9074033		07/25/09 15:58
Xylenes, total		155		ug/kg	150	103%	80 - 130	6	50	9074033		07/25/09 15:58
Surrogate: 1,2-Dichloroethane-d4		49.7		ug/kg	50.0	99%	67 - 138			9074033		07/25/09 15:58
Surrogate: Dibromofluoromethane		49.4		ug/kg	50.0	99%	75 - 125			9074033		07/25/09 15:58
Surrogate: Toluene-d8		52.0		ug/kg	50.0	104%	76 - 129			9074033		07/25/09 15:58
Surrogate: 4-Bromofluorobenzene		52.4		ug/kg	50.0	105%	67 - 147			9074033		07/25/09 15:58
9074052-BSD1												
Benzene		49.3		ug/kg	50.0	99%	78 - 126	1	50	9074052		07/27/09 14:41
Ethylbenzene		56.9		ug/kg	50.0	114%	79 - 130	2	50	9074052		07/27/09 14:41
Naphthalene		60.1		ug/kg	50.0	120%	72 - 150	1	50	9074052		07/27/09 14:41
Toluene		52.6		ug/kg	50.0	105%	76 - 126	2	50	9074052		07/27/09 14:41
Xylenes, total		170		ug/kg	150	113%	80 - 130	1	50	9074052		07/27/09 14:41
Surrogate: 1,2-Dichloroethane-d4		50.5		ug/kg	50.0	101%	67 - 138			9074052		07/27/09 14:41
Surrogate: Dibromofluoromethane		49.1		ug/kg	50.0	98%	75 - 125			9074052		07/27/09 14:41
Surrogate: Toluene-d8		51.9		ug/kg	50.0	104%	76 - 129			9074052		07/27/09 14:41

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

Work Order: NSG1390
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/17/09 08:00

PROJECT QUALITY CONTROL DATA

LCS Dup - Cont.

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												
9074052-BSD1												
Surrogate: 4-Bromofluorobenzene		51.7		ug/kg	50.0	103%	67 - 147			9074052		07/27/09 14:41

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

Work Order: NSG1390
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/17/09 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										
9073642-MS1										
Benzene	16.9	66.8		ug/kg	50.0	100%	42 - 141	9073642	NSG2001-03	07/28/09 22:49
Ethylbenzene	280	502	M7	ug/kg	50.0	445%	21 - 165	9073642	NSG2001-03	07/28/09 22:49
Naphthalene	356	755	M7	ug/kg	50.0	798%	10 - 160	9073642	NSG2001-03	07/28/09 22:49
Toluene	14.7	66.3		ug/kg	50.0	103%	45 - 145	9073642	NSG2001-03	07/28/09 22:49
Xylenes, total	32.4	230		ug/kg	150	132%	31 - 159	9073642	NSG2001-03	07/28/09 22:49
Surrogate: 1,2-Dichloroethane-d4		45.0		ug/kg	50.0	90%	67 - 138	9073642	NSG2001-03	07/28/09 22:49
Surrogate: Dibromofluoromethane		40.1		ug/kg	50.0	80%	75 - 125	9073642	NSG2001-03	07/28/09 22:49
Surrogate: Toluene-d8		85.1	ZX	ug/kg	50.0	170%	76 - 129	9073642	NSG2001-03	07/28/09 22:49
Surrogate: 4-Bromofluorobenzene		110	ZX	ug/kg	50.0	220%	67 - 147	9073642	NSG2001-03	07/28/09 22:49

Polyaromatic Hydrocarbons by EPA 8270D

9072561-MS1

Acenaphthene	ND	1.29		mg/kg dry	1.85	70%	42 - 120	9072561	NSG1390-03	07/19/09 18:09
Acenaphthylene	ND	1.30		mg/kg dry	1.85	70%	32 - 120	9072561	NSG1390-03	07/19/09 18:09
Anthracene	ND	1.60		mg/kg dry	1.85	86%	10 - 200	9072561	NSG1390-03	07/19/09 18:09
Benzo (a) anthracene	ND	1.40		mg/kg dry	1.85	76%	41 - 120	9072561	NSG1390-03	07/19/09 18:09
Benzo (a) pyrene	0.368	1.50		mg/kg dry	1.85	61%	33 - 121	9072561	NSG1390-03	07/19/09 18:09
Benzo (b) fluoranthene	0.202	1.71		mg/kg dry	1.85	82%	26 - 137	9072561	NSG1390-03	07/19/09 18:09
Benzo (g,h,i) perylene	0.142	1.57		mg/kg dry	1.85	77%	21 - 124	9072561	NSG1390-03	07/19/09 18:09
Benzo (k) fluoranthene	ND	1.61		mg/kg dry	1.85	87%	14 - 140	9072561	NSG1390-03	07/19/09 18:09
Chrysene	0.0670	1.56		mg/kg dry	1.85	81%	28 - 123	9072561	NSG1390-03	07/19/09 18:09
Dibenz (a,h) anthracene	ND	1.50		mg/kg dry	1.85	81%	25 - 127	9072561	NSG1390-03	07/19/09 18:09
Fluoranthene	ND	1.52		mg/kg dry	1.85	82%	38 - 120	9072561	NSG1390-03	07/19/09 18:09
Fluorene	ND	1.51		mg/kg dry	1.85	81%	41 - 120	9072561	NSG1390-03	07/19/09 18:09
Indeno (1,2,3-cd) pyrene	0.111	1.63		mg/kg dry	1.85	82%	25 - 123	9072561	NSG1390-03	07/19/09 18:09
Naphthalene	ND	1.19		mg/kg dry	1.85	64%	25 - 120	9072561	NSG1390-03	07/19/09 18:09
Phenanthrene	ND	1.51		mg/kg dry	1.85	81%	37 - 120	9072561	NSG1390-03	07/19/09 18:09
Pyrene	ND	1.55		mg/kg dry	1.85	84%	29 - 125	9072561	NSG1390-03	07/19/09 18:09
1-Methylnaphthalene	ND	1.14		mg/kg dry	1.85	62%	19 - 120	9072561	NSG1390-03	07/19/09 18:09
2-Methylnaphthalene	ND	1.15		mg/kg dry	1.85	62%	11 - 120	9072561	NSG1390-03	07/19/09 18:09
Surrogate: Terphenyl-d14		1.52		mg/kg dry	1.85	82%	18 - 120	9072561	NSG1390-03	07/19/09 18:09
Surrogate: 2-Fluorobiphenyl		1.15		mg/kg dry	1.85	62%	14 - 120	9072561	NSG1390-03	07/19/09 18:09
Surrogate: Nitrobenzene-d5		1.08		mg/kg dry	1.85	58%	17 - 120	9072561	NSG1390-03	07/19/09 18:09

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

Work Order: NSG1390
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/17/09 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												
9073642-MSD1												
Benzene	18.7	57.0		ug/kg	50.0	77%	42 - 141	16	50	9073642	NSG2001-03	07/28/09 23:20
Ethylbenzene	310	431	M7	ug/kg	50.0	243%	21 - 165	15	50	9073642	NSG2001-03	07/28/09 23:20
Naphthalene	394	403	R2	ug/kg	50.0	19%	10 - 160	61	50	9073642	NSG2001-03	07/28/09 23:20
Toluene	16.2	58.2		ug/kg	50.0	84%	45 - 145	13	50	9073642	NSG2001-03	07/28/09 23:20
Xylenes, total	35.9	186		ug/kg	150	100%	31 - 159	21	50	9073642	NSG2001-03	07/28/09 23:20
Surrogate: 1,2-Dichloroethane-d4		46.1		ug/kg	50.0	92%	67 - 138			9073642	NSG2001-03	07/28/09 23:20
Surrogate: Dibromofluoromethane		41.2		ug/kg	50.0	82%	75 - 125			9073642	NSG2001-03	07/28/09 23:20
Surrogate: Toluene-d8		86.4	ZX	ug/kg	50.0	173%	76 - 129			9073642	NSG2001-03	07/28/09 23:20
Surrogate: 4-Bromofluorobenzene		106	ZX	ug/kg	50.0	212%	67 - 147			9073642	NSG2001-03	07/28/09 23:20

Polyaromatic Hydrocarbons by EPA 8270D

9072561-MSD1

Acenaphthene	ND	1.33		mg/kg dry	1.86	71%	42 - 120	3	40	9072561	NSG1390-03	07/19/09 18:31
Acenaphthylene	ND	1.32		mg/kg dry	1.86	71%	32 - 120	2	30	9072561	NSG1390-03	07/19/09 18:31
Anthracene	ND	1.62		mg/kg dry	1.86	87%	10 - 200	2	50	9072561	NSG1390-03	07/19/09 18:31
Benzo (a) anthracene	ND	1.46		mg/kg dry	1.86	78%	41 - 120	4	30	9072561	NSG1390-03	07/19/09 18:31
Benzo (a) pyrene	0.368	1.49		mg/kg dry	1.86	60%	33 - 121	1	33	9072561	NSG1390-03	07/19/09 18:31
Benzo (b) fluoranthene	0.202	1.77		mg/kg dry	1.86	84%	26 - 137	3	42	9072561	NSG1390-03	07/19/09 18:31
Benzo (g,h,i) perylene	0.142	1.60		mg/kg dry	1.86	78%	21 - 124	2	32	9072561	NSG1390-03	07/19/09 18:31
Benzo (k) fluoranthene	ND	1.50		mg/kg dry	1.86	80%	14 - 140	7	39	9072561	NSG1390-03	07/19/09 18:31
Chrysene	0.0670	1.50		mg/kg dry	1.86	77%	28 - 123	3	34	9072561	NSG1390-03	07/19/09 18:31
Dibenz (a,h) anthracene	ND	1.51		mg/kg dry	1.86	81%	25 - 127	0.8	31	9072561	NSG1390-03	07/19/09 18:31
Fluoranthene	ND	1.60		mg/kg dry	1.86	86%	38 - 120	5	35	9072561	NSG1390-03	07/19/09 18:31
Fluorene	ND	1.48		mg/kg dry	1.86	79%	41 - 120	2	37	9072561	NSG1390-03	07/19/09 18:31
Indeno (1,2,3-cd) pyrene	0.111	1.65		mg/kg dry	1.86	83%	25 - 123	1	32	9072561	NSG1390-03	07/19/09 18:31
Naphthalene	ND	1.21		mg/kg dry	1.86	65%	25 - 120	2	42	9072561	NSG1390-03	07/19/09 18:31
Phenanthrene	ND	1.52		mg/kg dry	1.86	81%	37 - 120	0.7	32	9072561	NSG1390-03	07/19/09 18:31
Pyrene	ND	1.49		mg/kg dry	1.86	80%	29 - 125	4	40	9072561	NSG1390-03	07/19/09 18:31
1-Methylnaphthalene	ND	1.16		mg/kg dry	1.86	62%	19 - 120	1	45	9072561	NSG1390-03	07/19/09 18:31
2-Methylnaphthalene	ND	1.16		mg/kg dry	1.86	62%	11 - 120	0.5	50	9072561	NSG1390-03	07/19/09 18:31
Surrogate: Terphenyl-d14		1.46		mg/kg dry	1.86	78%	18 - 120			9072561	NSG1390-03	07/19/09 18:31
Surrogate: 2-Fluorobiphenyl		1.24		mg/kg dry	1.86	67%	14 - 120			9072561	NSG1390-03	07/19/09 18:31
Surrogate: Nitrobenzene-d5		1.09		mg/kg dry	1.86	59%	17 - 120			9072561	NSG1390-03	07/19/09 18:31

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

Work Order: NSG1390
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/17/09 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: NSG1390
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 07/17/09 08:00

DATA QUALIFIERS AND DEFINITIONS

M7 The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
R2 The RPD exceeded the acceptance limit.
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

NSG1390
07/31/09 23:59

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?

Compliance Monitoring? Yes ☐ No ☐

Enforcement Action? Yes ☐ No ☐

Client Name/Account #: EEG # 2449

Address: 10179 Highway 78

City/State/Zip: Ladson, SC 29456

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

Telephone Number: 843.412.2097

Fax No.:

843-879-0401

Sampler Name: (Print)

Dr. H. 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	HNO ₃ (Red Label)	HCl (Blue Label)	NaOH (Orange Label)	H ₂ SO ₄ Plastic (Yellow Label)	H ₂ SO ₄ Glass (Yellow Label)	None (Black Label)	Other (Specify)	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify)	BTEX + Napth - 8260E	PAH - 8270D																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

Special Instructions:

Laboratory Comments:

Temperature Upon Receipt:
VOCs Free of Headspace?

Y

Method of Shipment:				FEDEX	
Relinquished by:	Date	Time	Received by:	Date	Time
<i>[Signature]</i>	7/16/09	1400	FEDEX		
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
			<i>[Signature]</i>	7/17	8:00

ATTACHMENT A



NON-HAZARDOUS MANIFEST

CWMH

Please 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 10085463		
4. Generator's Phone 843 228-6480		B. State Generator's ID		
5. Transporter 1 Company Name EEG, Inc.		6. US EPA ID Number		C. State Transporter's ID
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone 843 872-0411
9. Designated Facility Name and Site Address HICKORY HILL LANDFILL ROUTE 1, BOX 121 RIDGELAND SC 29836		10. US EPA ID Number		E. State Transporter's ID
				F. Transporter's Phone
				G. State Facility's ID
				H. Facility's Phone 843 987-4643
11. Description of Waste Materials		12. Containers No.	13. Total Quantity	14. Unit Wt./Vol.
a. Heating Oil Tank filled with Sand				
WM Profile # 102055SC		0 0 1		
b.				
WM Profile #				
c.				
WM Profile #				
J. Additional Descriptions for Materials Listed Above		K. Disposal Location		
Landfill _____ Solidification _____		Cell _____ Level _____		
Bio Remediation _____		Grid _____		
15. Special Handling Instructions and Additional Information OTEH 1) 1378 DOUR ✓ 3) 1371 DOUR ✓ 5) 1360 CARDINAL ✓ 2) 1373 DOUR ✓ 4) 1370 DOUR ✓ 6) 1357 CARDINAL ✓ 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 Charles H. Herron		Signature "On behalf of" <i>Charles H. Herron</i>		Month Day Year 07/16/97
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Joseph Weston		Signature <i>Joseph Weston</i>		Month Day Year 11/21/99
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name <i>Joseph Weston</i>		Signature <i>Joseph Weston</i>		Month Day Year 11/21/99
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 C. CARPENTINO		Signature <i>C. Carpentino</i>		Month Day Year 07/16/97

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 26, 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:
• **1378 Dove Lane**
• **1376 Dove Lane**

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 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 26, 2010

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

Underground Storage Tank (UST) Assessment Report
1378 Dove Lane, Laurel Bay Military Housing Area
1376 Dove Lane, Laurel Bay Military Housing Area
Dated September 2009

The document referenced above has 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 the 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.

UST 1378 Dove Lane and 1376 Dove Lane are single steel wall 280 gallon heating oil tanks that were installed during the late 1950s and were used through the mid 1980s. They were removed during the July 13, 2009 field activities and disposed of at a subtitle D landfill.

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