

SUMMARY REPORT
80 WEST CARDINAL LANE (FORMERLY 1207 WEST CARDINAL 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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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 80 West Cardinal Lane (Formerly 1207 West Cardinal 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 80 West Cardinal Lane (Formerly 1207 West Cardinal Lane). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 1207 West Cardinal Lane* (MCAS Beaufort, 2009). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On August 20, 2009, a single 280 gallon heating oil UST was removed from the back yard adjacent to the garage area at 80 West Cardinal Lane (Formerly 1207 West Cardinal 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 6'0" 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 80 West Cardinal Lane (Formerly 1207 West Cardinal 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 80 West Cardinal Lane (Formerly 1207 West Cardinal Lane). This NFA determination was obtained in a letter dated April 6, 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 – 1207 West Cardinal Lane, Laurel Bay Military Housing Area*, November 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
80 West Cardinal Lane (Formerly 1207 West Cardinal Lane)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Results Sample Collected 08/20/09
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	0.0805
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



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	
1207 Cardinal 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.....

1207 Cardinal				
Heating oil				
280 gal				
Late 1950s				
Steel				
Mid 1980s				
6'				
No				
No				
Removed				
8/20/09				
Yes				
Yes				

- M. Method of disposal for any USTs removed from the ground (attach disposal manifests)
UST 1207Cardinal 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 1207Cardinal 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 throughout 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.

1207 Cardinal				
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 84009001

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
1207 Cardinal	Excav at fill end	Soil	Sandy	6'	8/20/09 1145 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.

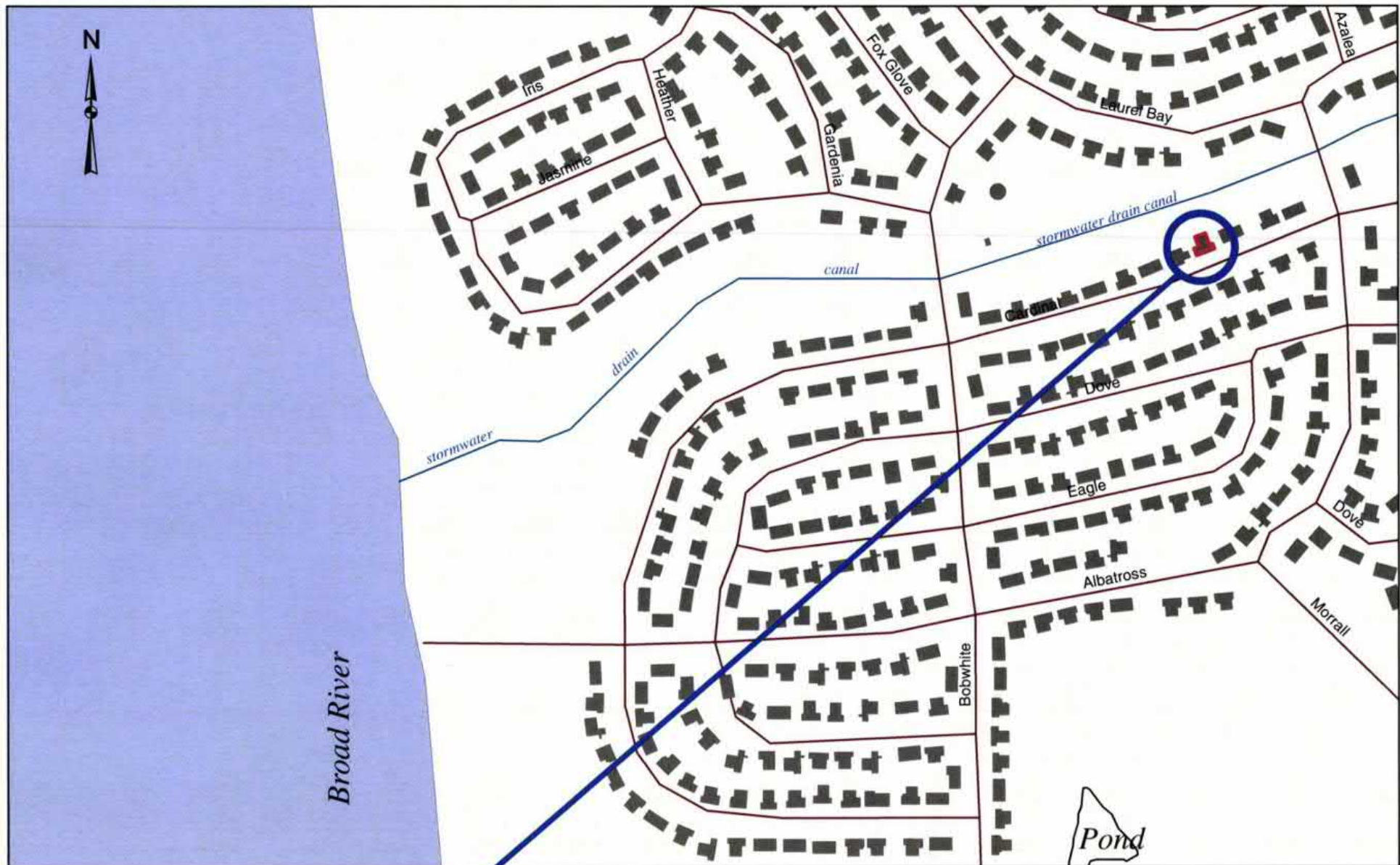
XII. RECEPTORS

	Yes	No
A. Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system? *X 110' *Stormwater drainage canal ~ If yes, indicate type of receptor, distance, and direction on site map.		
B. Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system? 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? *X *Sewer, water & geothermal If yes, indicate the type of utility, distance, and direction on the site map.		
E. Has contaminated soil been identified at a depth less than 3 feet below land surface in an area that is not capped by asphalt or concrete? If yes, indicate the area of contaminated soil on the site map.		X

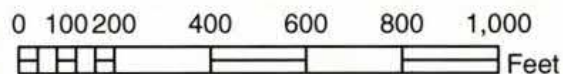
XIII. SITE MAP

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)



1207 CARDINAL LN.



SBG-EEG, Inc.

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

Ph. (843) 879-0400

Drawn By: L. DiAsio

Dwg Date: Oct 2009

FIGURE 1: LOCATION MAP
1207 CARDINAL LN., LAUREL BAY
MCAS BEAUFORT SC



STORMWATER DRAINAGE
CANAL $\approx 110'$



GEOTHERMAL LINES



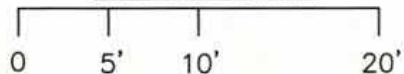
UST 1207CARDINAL



1207 CARDINAL 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
1207 CARDINAL LN., LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE OCT 2009



STORMWATER DRAINAGE
CANAL $\approx 110'$

SOIL SAMPLE
1207 CARDINAL

FILL END

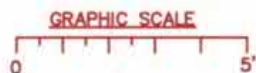
GEO THERMAL
LINES

UST 1207CARDINAL,
280 GAL.

EXCAVATION

GRASS

REAR OF
1207 CARDINAL LANE



UST 1207CARDINAL WAS
36" BELOW GRADE.

SBG-EEG

10179 HWY 78
LADSON, SC 29456

ph. (843) 879-0400

FIGURE 3 UST SAMPLE LOCATIONS
1207 CARDINAL LN., LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE OCT 2009



Picture 1: UST 1207Cardinal.



Picture 2: Excavation 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 1207Cardinal							
Benzene	ND							
Toluene	ND							
Ethylbenzene	ND							
Xylenes	ND							
Naphthalene	ND							
Benzo (a) anthracene	ND							
Benzo (b) fluoranthene	ND							
Benzo (k) fluoranthene	0.0805 mg/kg							
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)

September 04, 2009 12:48:34PM

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

Work Order: NSH1890
Project Name: Laurel Bay Housing Project
Project Nbr: [none]
P/O Nbr: 0829
Date Received: 08/21/09

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
1190 Bobwhite	NSH1890-01	08/19/09 10:30
1186 Bobwhite	NSH1890-02	08/19/09 09:30
1210 Cardinal	NSH1890-03	08/19/09 14:55
1206 Cardinal	NSH1890-04	08/19/09 14:45
1205 Cardinal	NSH1890-05	08/20/09 09:10
1201 Cardinal	NSH1890-06	08/20/09 09:30
1207 Cardinal	NSH1890-07	08/20/09 11:45
1211 Cardinal	NSH1890-08	08/20/09 13:30

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: NSH1890
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/21/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NSH1890-01 (1190 Bobwhite - Soil) Sampled: 08/19/09 10:30									
General Chemistry Parameters									
% Dry Solids	81.4		%	0.500	1	09/01/09 08:53	SW-846	AJK	9085104
Selected Volatile Organic Compounds by EPA Method 8260B									
Benzene	0.0122		mg/kg dry	0.00220	1	08/28/09 21:14	SW846 8260B	SMS	9083572
Ethylbenzene	4.30		mg/kg dry	0.110	50	08/31/09 19:05	SW846 8260B	SMS	9084596
Naphthalene	27.1		mg/kg dry	2.74	500	08/31/09 19:35	SW846 8260B	SMS	9084596
Toluene	1.25		mg/kg dry	0.110	50	08/31/09 19:05	SW846 8260B	SMS	9084596
Xylenes, total	17.0		mg/kg dry	0.274	50	08/31/09 19:05	SW846 8260B	SMS	9084596
Surr: 1,2-Dichloroethane-d4 (67-138%)	108 %					08/28/09 21:14	SW846 8260B	SMS	9083572
Surr: 1,2-Dichloroethane-d4 (67-138%)	95 %					08/31/09 19:05	SW846 8260B	SMS	9084596
Surr: 1,2-Dichloroethane-d4 (67-138%)	99 %					08/31/09 19:35	SW846 8260B	SMS	9084596
Surr: Dibromofluoromethane (75-125%)	103 %					08/28/09 21:14	SW846 8260B	SMS	9083572
Surr: Dibromofluoromethane (75-125%)	88 %					08/31/09 19:05	SW846 8260B	SMS	9084596
Surr: Dibromofluoromethane (75-125%)	88 %					08/31/09 19:35	SW846 8260B	SMS	9084596
Surr: Toluene-d8 (76-129%)	185 %	ZX				08/28/09 21:14	SW846 8260B	SMS	9083572
Surr: Toluene-d8 (76-129%)	96 %					08/31/09 19:05	SW846 8260B	SMS	9084596
Surr: Toluene-d8 (76-129%)	103 %					08/31/09 19:35	SW846 8260B	SMS	9084596
Surr: 4-Bromofluorobenzene (67-147%)	514 %	ZX				08/28/09 21:14	SW846 8260B	SMS	9083572
Surr: 4-Bromofluorobenzene (67-147%)	118 %					08/31/09 19:05	SW846 8260B	SMS	9084596
Surr: 4-Bromofluorobenzene (67-147%)	102 %					08/31/09 19:35	SW846 8260B	SMS	9084596
Polyaromatic Hydrocarbons by EPA 8270D									
Acenaphthene	ND		mg/kg dry	0.808	10	08/31/09 14:56	SW846 8270D	jlf	9083679
Acenaphthylene	ND		mg/kg dry	0.808	10	08/31/09 14:56	SW846 8270D	jlf	9083679
Anthracene	2.00		mg/kg dry	0.808	10	08/31/09 14:56	SW846 8270D	jlf	9083679
Benzo (a) anthracene	2.66		mg/kg dry	0.808	10	08/31/09 14:56	SW846 8270D	jlf	9083679
Benzo (a) pyrene	1.33		mg/kg dry	0.808	10	08/31/09 14:56	SW846 8270D	jlf	9083679
Benzo (b) fluoranthene	1.63		mg/kg dry	0.808	10	08/31/09 14:56	SW846 8270D	jlf	9083679
Benzo (g,h,i) perylene	ND		mg/kg dry	0.808	10	08/31/09 14:56	SW846 8270D	jlf	9083679
Benzo (k) fluoranthene	1.52		mg/kg dry	0.808	10	08/31/09 14:56	SW846 8270D	jlf	9083679
Chrysene	3.33		mg/kg dry	0.808	10	08/31/09 14:56	SW846 8270D	jlf	9083679
Dibenz (a,h) anthracene	ND		mg/kg dry	0.808	10	08/31/09 14:56	SW846 8270D	jlf	9083679
Fluoranthene	5.75		mg/kg dry	0.808	10	08/31/09 14:56	SW846 8270D	jlf	9083679
Fluorene	10.5		mg/kg dry	0.808	10	08/31/09 14:56	SW846 8270D	jlf	9083679
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.808	10	08/31/09 14:56	SW846 8270D	jlf	9083679
Naphthalene	26.2		mg/kg dry	0.808	10	08/31/09 14:56	SW846 8270D	jlf	9083679
Phenanthrene	21.6		mg/kg dry	0.808	10	08/31/09 14:56	SW846 8270D	jlf	9083679
Pyrene	7.38		mg/kg dry	0.808	10	08/31/09 14:56	SW846 8270D	jlf	9083679
1-Methylnaphthalene	53.9		mg/kg dry	4.04	50	08/31/09 17:35	SW846 8270D	jlf	9083679
2-Methylnaphthalene	84.8		mg/kg dry	4.04	50	08/31/09 17:35	SW846 8270D	jlf	9083679
Surr: Terphenyl-d14 (18-120%)	52 %					08/31/09 14:56	SW846 8270D	jlf	9083679
Surr: 2-Fluorobiphenyl (14-120%)	53 %					08/31/09 14:56	SW846 8270D	jlf	9083679
Surr: Nitrobenzene-d5 (17-120%)	58 %					08/31/09 14:56	SW846 8270D	jlf	9083679

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

Work Order: NSH1890
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/21/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NSH1890-02 (1186 Bobwhite - Soil) Sampled: 08/19/09 09:30									
General Chemistry Parameters									
% Dry Solids	93.9		%	0.500	1	09/01/09 08:53	SW-846	AJK	9085104
Selected Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND		mg/kg dry	0.00218	1	08/31/09 17:35	SW846 8260B	SMS	9084596
Ethylbenzene	ND		mg/kg dry	0.114	50	09/02/09 13:16	SW846 8260B	CAW	9085110
Naphthalene	ND		mg/kg dry	0.285	50	09/02/09 13:16	SW846 8260B	CAW	9085110
Toluene	ND		mg/kg dry	0.114	50	09/02/09 13:16	SW846 8260B	CAW	9085110
Xylenes, total	ND		mg/kg dry	0.285	50	09/02/09 13:16	SW846 8260B	CAW	9085110
Surr: 1,2-Dichloroethane-d4 (67-138%)	137 %					08/31/09 17:35	SW846 8260B	SMS	9084596
Surr: 1,2-Dichloroethane-d4 (67-138%)	105 %					09/02/09 13:16	SW846 8260B	CAW	9085110
Surr: Dibromofluoromethane (75-125%)	124 %					08/31/09 17:35	SW846 8260B	SMS	9084596
Surr: Dibromofluoromethane (75-125%)	101 %					09/02/09 13:16	SW846 8260B	CAW	9085110
Surr: Toluene-d8 (76-129%)	107 %					08/31/09 17:35	SW846 8260B	SMS	9084596
Surr: Toluene-d8 (76-129%)	97 %					09/02/09 13:16	SW846 8260B	CAW	9085110
Surr: 4-Bromofluorobenzene (67-147%)	112 %					08/31/09 17:35	SW846 8260B	SMS	9084596
Surr: 4-Bromofluorobenzene (67-147%)	85 %					09/02/09 13:16	SW846 8260B	CAW	9085110
Polyaromatic Hydrocarbons by EPA 8270D									
Acenaphthene	ND		mg/kg dry	0.0693	1	08/30/09 16:40	SW846 8270D	jlf	9083679
Acenaphthylene	ND		mg/kg dry	0.0693	1	08/30/09 16:40	SW846 8270D	jlf	9083679
Anthracene	ND		mg/kg dry	0.0693	1	08/30/09 16:40	SW846 8270D	jlf	9083679
Benzo (a) anthracene	ND		mg/kg dry	0.0693	1	08/30/09 16:40	SW846 8270D	jlf	9083679
Benzo (a) pyrene	0.272		mg/kg dry	0.0693	1	08/30/09 16:40	SW846 8270D	jlf	9083679
Benzo (b) fluoranthene	0.169		mg/kg dry	0.0693	1	08/30/09 16:40	SW846 8270D	jlf	9083679
Benzo (g,h,i) perylene	0.0931		mg/kg dry	0.0693	1	08/30/09 16:40	SW846 8270D	jlf	9083679
Benzo (k) fluoranthene	ND		mg/kg dry	0.0693	1	08/30/09 16:40	SW846 8270D	jlf	9083679
Chrysene	0.100		mg/kg dry	0.0693	1	08/30/09 16:40	SW846 8270D	jlf	9083679
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0693	1	08/30/09 16:40	SW846 8270D	jlf	9083679
Fluoranthene	ND		mg/kg dry	0.0693	1	08/30/09 16:40	SW846 8270D	jlf	9083679
Fluorene	ND		mg/kg dry	0.0693	1	08/30/09 16:40	SW846 8270D	jlf	9083679
Indeno (1,2,3-cd) pyrene	0.0938		mg/kg dry	0.0693	1	08/30/09 16:40	SW846 8270D	jlf	9083679
Naphthalene	ND		mg/kg dry	0.0693	1	08/30/09 16:40	SW846 8270D	jlf	9083679
Phenanthrene	ND		mg/kg dry	0.0693	1	08/30/09 16:40	SW846 8270D	jlf	9083679
Pyrene	ND		mg/kg dry	0.0693	1	08/30/09 16:40	SW846 8270D	jlf	9083679
1-Methylnaphthalene	ND		mg/kg dry	0.0693	1	08/30/09 16:40	SW846 8270D	jlf	9083679
2-Methylnaphthalene	ND		mg/kg dry	0.0693	1	08/30/09 16:40	SW846 8270D	jlf	9083679
Surr: Terphenyl-d14 (18-120%)	105 %					08/30/09 16:40	SW846 8270D	jlf	9083679
Surr: 2-Fluorobiphenyl (14-120%)	86 %					08/30/09 16:40	SW846 8270D	jlf	9083679
Surr: Nitrobenzene-d5 (17-120%)	34 %					08/30/09 16:40	SW846 8270D	jlf	9083679

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

Work Order: NSH1890
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/21/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NSH1890-03 (1210 Cardinal - Soil) Sampled: 08/19/09 14:55									
General Chemistry Parameters									
% Dry Solids	95.1		%	0.500	1	09/01/09 08:53	SW-846	AJK	9085104
Selected Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND		mg/kg dry	0.00236	1	08/31/09 18:05	SW846 8260B	SMS	9084596
Ethylbenzene	ND		mg/kg dry	0.00236	1	08/31/09 18:05	SW846 8260B	SMS	9084596
Naphthalene	ND		mg/kg dry	0.296	50	09/02/09 13:44	SW846 8260B	CAW	9085110
Toluene	ND		mg/kg dry	0.00236	1	08/31/09 18:05	SW846 8260B	SMS	9084596
Xylenes, total	ND		mg/kg dry	0.00591	1	08/31/09 18:05	SW846 8260B	SMS	9084596
Surr: 1,2-Dichloroethane-d4 (67-138%)	102 %					08/31/09 18:05	SW846 8260B	SMS	9084596
Surr: 1,2-Dichloroethane-d4 (67-138%)	93 %					09/02/09 13:44	SW846 8260B	CAW	9085110
Surr: Dibromofluoromethane (75-125%)	93 %					08/31/09 18:05	SW846 8260B	SMS	9084596
Surr: Dibromofluoromethane (75-125%)	94 %					09/02/09 13:44	SW846 8260B	CAW	9085110
Surr: Toluene-d8 (76-129%)	102 %					08/31/09 18:05	SW846 8260B	SMS	9084596
Surr: Toluene-d8 (76-129%)	99 %					09/02/09 13:44	SW846 8260B	CAW	9085110
Surr: 4-Bromofluorobenzene (67-147%)	132 %					08/31/09 18:05	SW846 8260B	SMS	9084596
Surr: 4-Bromofluorobenzene (67-147%)	102 %					09/02/09 13:44	SW846 8260B	CAW	9085110
Polyaromatic Hydrocarbons by EPA 8270D									
Acenaphthene	ND		mg/kg dry	0.0701	1	08/30/09 17:03	SW846 8270D	jlf	9083679
Acenaphthylene	ND		mg/kg dry	0.0701	1	08/30/09 17:03	SW846 8270D	jlf	9083679
Anthracene	ND		mg/kg dry	0.0701	1	08/30/09 17:03	SW846 8270D	jlf	9083679
Benzo (a) anthracene	ND		mg/kg dry	0.0701	1	08/30/09 17:03	SW846 8270D	jlf	9083679
Benzo (a) pyrene	0.652		mg/kg dry	0.0701	1	08/30/09 17:03	SW846 8270D	jlf	9083679
Benzo (b) fluoranthene	ND		mg/kg dry	0.0701	1	08/30/09 17:03	SW846 8270D	jlf	9083679
Benzo (g,h,i) perylene	0.304		mg/kg dry	0.0701	1	08/30/09 17:03	SW846 8270D	jlf	9083679
Benzo (k) fluoranthene	0.180		mg/kg dry	0.0701	1	08/30/09 17:03	SW846 8270D	jlf	9083679
Chrysene	0.108		mg/kg dry	0.0701	1	08/30/09 17:03	SW846 8270D	jlf	9083679
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0701	1	08/30/09 17:03	SW846 8270D	jlf	9083679
Fluoranthene	ND		mg/kg dry	0.0701	1	08/30/09 17:03	SW846 8270D	jlf	9083679
Fluorene	ND		mg/kg dry	0.0701	1	08/30/09 17:03	SW846 8270D	jlf	9083679
Indeno (1,2,3-cd) pyrene	0.269		mg/kg dry	0.0701	1	08/30/09 17:03	SW846 8270D	jlf	9083679
Naphthalene	ND		mg/kg dry	0.0701	1	08/30/09 17:03	SW846 8270D	jlf	9083679
Phenanthrene	ND		mg/kg dry	0.0701	1	08/30/09 17:03	SW846 8270D	jlf	9083679
Pyrene	ND		mg/kg dry	0.0701	1	08/30/09 17:03	SW846 8270D	jlf	9083679
1-Methylnaphthalene	ND		mg/kg dry	0.0701	1	08/30/09 17:03	SW846 8270D	jlf	9083679
2-Methylnaphthalene	ND		mg/kg dry	0.0701	1	08/30/09 17:03	SW846 8270D	jlf	9083679
Surr: Terphenyl-d14 (18-120%)	116 %					08/30/09 17:03	SW846 8270D	jlf	9083679
Surr: 2-Fluorobiphenyl (14-120%)	57 %					08/30/09 17:03	SW846 8270D	jlf	9083679
Surr: Nitrobenzene-d5 (17-120%)	69 %					08/30/09 17:03	SW846 8270D	jlf	9083679

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

Work Order: NSH1890
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/21/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NSH1890-04 (1206 Cardinal - Soil) Sampled: 08/19/09 14:45									
General Chemistry Parameters									
% Dry Solids	90.7		%	0.500	1	09/01/09 08:53	SW-846	AJK	9085104
Selected Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND		mg/kg dry	0.00231	1	08/29/09 04:13	SW846 8260B	SMS	9083484
Ethylbenzene	ND		mg/kg dry	0.00231	1	08/29/09 04:13	SW846 8260B	SMS	9083484
Naphthalene	ND		mg/kg dry	0.00577	1	08/29/09 04:13	SW846 8260B	SMS	9083484
Toluene	ND		mg/kg dry	0.00231	1	08/29/09 04:13	SW846 8260B	SMS	9083484
Xylenes, total	ND		mg/kg dry	0.00577	1	08/29/09 04:13	SW846 8260B	SMS	9083484
Surr: 1,2-Dichloroethane-d4 (67-138%)	103 %					08/29/09 04:13	SW846 8260B	SMS	9083484
Surr: Dibromofluoromethane (75-125%)	94 %					08/29/09 04:13	SW846 8260B	SMS	9083484
Surr: Toluene-d8 (76-129%)	98 %					08/29/09 04:13	SW846 8260B	SMS	9083484
Surr: 4-Bromofluorobenzene (67-147%)	103 %					08/29/09 04:13	SW846 8260B	SMS	9083484
Polyaromatic Hydrocarbons by EPA 8270D									
Acenaphthene	ND		mg/kg dry	0.0734	1	08/30/09 17:26	SW846 8270D	jlf	9083679
Acenaphthylene	ND		mg/kg dry	0.0734	1	08/30/09 17:26	SW846 8270D	jlf	9083679
Anthracene	ND		mg/kg dry	0.0734	1	08/30/09 17:26	SW846 8270D	jlf	9083679
Benzo (a) anthracene	ND		mg/kg dry	0.0734	1	08/30/09 17:26	SW846 8270D	jlf	9083679
Benzo (a) pyrene	ND		mg/kg dry	0.0734	1	08/30/09 17:26	SW846 8270D	jlf	9083679
Benzo (b) fluoranthene	ND		mg/kg dry	0.0734	1	08/30/09 17:26	SW846 8270D	jlf	9083679
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0734	1	08/30/09 17:26	SW846 8270D	jlf	9083679
Benzo (k) fluoranthene	ND		mg/kg dry	0.0734	1	08/30/09 17:26	SW846 8270D	jlf	9083679
Chrysene	ND		mg/kg dry	0.0734	1	08/30/09 17:26	SW846 8270D	jlf	9083679
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0734	1	08/30/09 17:26	SW846 8270D	jlf	9083679
Fluoranthene	ND		mg/kg dry	0.0734	1	08/30/09 17:26	SW846 8270D	jlf	9083679
Fluorene	ND		mg/kg dry	0.0734	1	08/30/09 17:26	SW846 8270D	jlf	9083679
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0734	1	08/30/09 17:26	SW846 8270D	jlf	9083679
Naphthalene	ND		mg/kg dry	0.0734	1	08/30/09 17:26	SW846 8270D	jlf	9083679
Phenanthrene	ND		mg/kg dry	0.0734	1	08/30/09 17:26	SW846 8270D	jlf	9083679
Pyrene	ND		mg/kg dry	0.0734	1	08/30/09 17:26	SW846 8270D	jlf	9083679
1-Methylnaphthalene	ND		mg/kg dry	0.0734	1	08/30/09 17:26	SW846 8270D	jlf	9083679
2-Methylnaphthalene	ND		mg/kg dry	0.0734	1	08/30/09 17:26	SW846 8270D	jlf	9083679
Surr: Terphenyl-d14 (18-120%)	81 %					08/30/09 17:26	SW846 8270D	jlf	9083679
Surr: 2-Fluorobiphenyl (14-120%)	63 %					08/30/09 17:26	SW846 8270D	jlf	9083679
Surr: Nitrobenzene-d5 (17-120%)	60 %					08/30/09 17:26	SW846 8270D	jlf	9083679

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

Work Order: NSH1890
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/21/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NSH1890-05 (1205 Cardinal - Soil) Sampled: 08/20/09 09:10									
General Chemistry Parameters									
% Dry Solids	90.4		%	0.500	1	09/01/09 08:53	SW-846	AJK	9085104
Selected Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND		mg/kg dry	0.00230	1	08/29/09 04:43	SW846 8260B	SMS	9083484
Ethylbenzene	ND		mg/kg dry	0.00230	1	08/29/09 04:43	SW846 8260B	SMS	9083484
Naphthalene	ND		mg/kg dry	0.00574	1	08/29/09 04:43	SW846 8260B	SMS	9083484
Toluene	ND		mg/kg dry	0.00230	1	08/29/09 04:43	SW846 8260B	SMS	9083484
Xylenes, total	ND		mg/kg dry	0.00574	1	08/29/09 04:43	SW846 8260B	SMS	9083484
Surr: 1,2-Dichloroethane-d4 (67-138%)	97 %					08/29/09 04:43	SW846 8260B	SMS	9083484
Surr: Dibromofluoromethane (75-125%)	93 %					08/29/09 04:43	SW846 8260B	SMS	9083484
Surr: Toluene-d8 (76-129%)	99 %					08/29/09 04:43	SW846 8260B	SMS	9083484
Surr: 4-Bromofluorobenzene (67-147%)	100 %					08/29/09 04:43	SW846 8260B	SMS	9083484
Polyaromatic Hydrocarbons by EPA 8270D									
Acenaphthene	ND		mg/kg dry	0.0732	1	08/30/09 17:48	SW846 8270D	jlf	9083679
Acenaphthylene	ND		mg/kg dry	0.0732	1	08/30/09 17:48	SW846 8270D	jlf	9083679
Anthracene	ND		mg/kg dry	0.0732	1	08/30/09 17:48	SW846 8270D	jlf	9083679
Benzo (a) anthracene	ND		mg/kg dry	0.0732	1	08/30/09 17:48	SW846 8270D	jlf	9083679
Benzo (a) pyrene	ND		mg/kg dry	0.0732	1	08/30/09 17:48	SW846 8270D	jlf	9083679
Benzo (b) fluoranthene	ND		mg/kg dry	0.0732	1	08/30/09 17:48	SW846 8270D	jlf	9083679
Benzo (g,h,i) perylene	0.133		mg/kg dry	0.0732	1	08/30/09 17:48	SW846 8270D	jlf	9083679
Benzo (k) fluoranthene	ND		mg/kg dry	0.0732	1	08/30/09 17:48	SW846 8270D	jlf	9083679
Chrysene	ND		mg/kg dry	0.0732	1	08/30/09 17:48	SW846 8270D	jlf	9083679
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0732	1	08/30/09 17:48	SW846 8270D	jlf	9083679
Fluoranthene	ND		mg/kg dry	0.0732	1	08/30/09 17:48	SW846 8270D	jlf	9083679
Fluorene	ND		mg/kg dry	0.0732	1	08/30/09 17:48	SW846 8270D	jlf	9083679
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0732	1	08/30/09 17:48	SW846 8270D	jlf	9083679
Naphthalene	ND		mg/kg dry	0.0732	1	08/30/09 17:48	SW846 8270D	jlf	9083679
Phenanthrene	ND		mg/kg dry	0.0732	1	08/30/09 17:48	SW846 8270D	jlf	9083679
Pyrene	ND		mg/kg dry	0.0732	1	08/30/09 17:48	SW846 8270D	jlf	9083679
1-Methylnaphthalene	ND		mg/kg dry	0.0732	1	08/30/09 17:48	SW846 8270D	jlf	9083679
2-Methylnaphthalene	ND		mg/kg dry	0.0732	1	08/30/09 17:48	SW846 8270D	jlf	9083679
Surr: Terphenyl-d14 (18-120%)	68 %					08/30/09 17:48	SW846 8270D	jlf	9083679
Surr: 2-Fluorobiphenyl (14-120%)	51 %					08/30/09 17:48	SW846 8270D	jlf	9083679
Surr: Nitrobenzene-d5 (17-120%)	46 %					08/30/09 17:48	SW846 8270D	jlf	9083679

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

Work Order: NSH1890
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/21/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NSH1890-06 (1201 Cardinal - Soil) Sampled: 08/20/09 09:30									
General Chemistry Parameters									
% Dry Solids	92.0		%	0.500	1	09/01/09 08:53	SW-846	AJK	9085104
Selected Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND		mg/kg dry	0.00236	1	08/29/09 05:13	SW846 8260B	SMS	9083484
Ethylbenzene	ND		mg/kg dry	0.00236	1	08/29/09 05:13	SW846 8260B	SMS	9083484
Naphthalene	ND		mg/kg dry	0.00591	1	08/29/09 05:13	SW846 8260B	SMS	9083484
Toluene	ND		mg/kg dry	0.00236	1	08/29/09 05:13	SW846 8260B	SMS	9083484
Xylenes, total	ND		mg/kg dry	0.00591	1	08/29/09 05:13	SW846 8260B	SMS	9083484
Surr: 1,2-Dichloroethane-d4 (67-138%)	97 %					08/29/09 05:13	SW846 8260B	SMS	9083484
Surr: Dibromofluoromethane (75-125%)	92 %					08/29/09 05:13	SW846 8260B	SMS	9083484
Surr: Toluene-d8 (76-129%)	101 %					08/29/09 05:13	SW846 8260B	SMS	9083484
Surr: 4-Bromofluorobenzene (67-147%)	102 %					08/29/09 05:13	SW846 8260B	SMS	9083484
Polyaromatic Hydrocarbons by EPA 8270D									
Acenaphthene	ND		mg/kg dry	0.0711	1	08/30/09 18:11	SW846 8270D	jlf	9083679
Acenaphthylene	ND		mg/kg dry	0.0711	1	08/30/09 18:11	SW846 8270D	jlf	9083679
Anthracene	ND		mg/kg dry	0.0711	1	08/30/09 18:11	SW846 8270D	jlf	9083679
Benzo (a) anthracene	ND		mg/kg dry	0.0711	1	08/30/09 18:11	SW846 8270D	jlf	9083679
Benzo (a) pyrene	ND		mg/kg dry	0.0711	1	08/30/09 18:11	SW846 8270D	jlf	9083679
Benzo (b) fluoranthene	ND		mg/kg dry	0.0711	1	08/30/09 18:11	SW846 8270D	jlf	9083679
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0711	1	08/30/09 18:11	SW846 8270D	jlf	9083679
Benzo (k) fluoranthene	ND		mg/kg dry	0.0711	1	08/30/09 18:11	SW846 8270D	jlf	9083679
Chrysene	ND		mg/kg dry	0.0711	1	08/30/09 18:11	SW846 8270D	jlf	9083679
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0711	1	08/30/09 18:11	SW846 8270D	jlf	9083679
Fluoranthene	ND		mg/kg dry	0.0711	1	08/30/09 18:11	SW846 8270D	jlf	9083679
Fluorene	ND		mg/kg dry	0.0711	1	08/30/09 18:11	SW846 8270D	jlf	9083679
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0711	1	08/30/09 18:11	SW846 8270D	jlf	9083679
Naphthalene	ND		mg/kg dry	0.0711	1	08/30/09 18:11	SW846 8270D	jlf	9083679
Phenanthrene	ND		mg/kg dry	0.0711	1	08/30/09 18:11	SW846 8270D	jlf	9083679
Pyrene	ND		mg/kg dry	0.0711	1	08/30/09 18:11	SW846 8270D	jlf	9083679
1-Methylnaphthalene	ND		mg/kg dry	0.0711	1	08/30/09 18:11	SW846 8270D	jlf	9083679
2-Methylnaphthalene	ND		mg/kg dry	0.0711	1	08/30/09 18:11	SW846 8270D	jlf	9083679
Surr: Terphenyl-d14 (18-120%)	87 %					08/30/09 18:11	SW846 8270D	jlf	9083679
Surr: 2-Fluorobiphenyl (14-120%)	65 %					08/30/09 18:11	SW846 8270D	jlf	9083679
Surr: Nitrobenzene-d5 (17-120%)	59 %					08/30/09 18:11	SW846 8270D	jlf	9083679

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

Work Order: NSH1890
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/21/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NSH1890-07 (1207 Cardinal - Soil) Sampled: 08/20/09 11:45									
General Chemistry Parameters									
% Dry Solids	96.8		%	0.500	1	09/01/09 08:53	SW-846	AJK	9085104
Selected Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND		mg/kg dry	0.00212	1	08/29/09 05:43	SW846 8260B	SMS	9083484
Ethylbenzene	ND		mg/kg dry	0.00212	1	08/29/09 05:43	SW846 8260B	SMS	9083484
Naphthalene	ND		mg/kg dry	0.00530	1	08/29/09 05:43	SW846 8260B	SMS	9083484
Toluene	ND		mg/kg dry	0.00212	1	08/29/09 05:43	SW846 8260B	SMS	9083484
Xylenes, total	ND		mg/kg dry	0.00530	1	08/29/09 05:43	SW846 8260B	SMS	9083484
Surr: 1,2-Dichloroethane-d4 (67-138%)	104 %					08/29/09 05:43	SW846 8260B	SMS	9083484
Surr: Dibromofluoromethane (75-125%)	98 %					08/29/09 05:43	SW846 8260B	SMS	9083484
Surr: Toluene-d8 (76-129%)	100 %					08/29/09 05:43	SW846 8260B	SMS	9083484
Surr: 4-Bromofluorobenzene (67-147%)	112 %					08/29/09 05:43	SW846 8260B	SMS	9083484
Polyaromatic Hydrocarbons by EPA 8270D									
Acenaphthene	ND		mg/kg dry	0.0685	1	08/30/09 18:33	SW846 8270D	jlf	9083679
Acenaphthylene	ND		mg/kg dry	0.0685	1	08/30/09 18:33	SW846 8270D	jlf	9083679
Anthracene	ND		mg/kg dry	0.0685	1	08/30/09 18:33	SW846 8270D	jlf	9083679
Benzo (a) anthracene	ND		mg/kg dry	0.0685	1	08/30/09 18:33	SW846 8270D	jlf	9083679
Benzo (a) pyrene	ND		mg/kg dry	0.0685	1	08/30/09 18:33	SW846 8270D	jlf	9083679
Benzo (b) fluoranthene	ND		mg/kg dry	0.0685	1	08/30/09 18:33	SW846 8270D	jlf	9083679
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0685	1	08/30/09 18:33	SW846 8270D	jlf	9083679
Benzo (k) fluoranthene	0.0805		mg/kg dry	0.0685	1	08/30/09 18:33	SW846 8270D	jlf	9083679
Chrysene	ND		mg/kg dry	0.0685	1	08/30/09 18:33	SW846 8270D	jlf	9083679
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0685	1	08/30/09 18:33	SW846 8270D	jlf	9083679
Fluoranthene	ND		mg/kg dry	0.0685	1	08/30/09 18:33	SW846 8270D	jlf	9083679
Fluorene	ND		mg/kg dry	0.0685	1	08/30/09 18:33	SW846 8270D	jlf	9083679
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0685	1	08/30/09 18:33	SW846 8270D	jlf	9083679
Naphthalene	ND		mg/kg dry	0.0685	1	08/30/09 18:33	SW846 8270D	jlf	9083679
Phenanthrene	ND		mg/kg dry	0.0685	1	08/30/09 18:33	SW846 8270D	jlf	9083679
Pyrene	ND		mg/kg dry	0.0685	1	08/30/09 18:33	SW846 8270D	jlf	9083679
1-Methylnaphthalene	ND		mg/kg dry	0.0685	1	08/30/09 18:33	SW846 8270D	jlf	9083679
2-Methylnaphthalene	ND		mg/kg dry	0.0685	1	08/30/09 18:33	SW846 8270D	jlf	9083679
Surr: Terphenyl-d14 (18-120%)	85 %					08/30/09 18:33	SW846 8270D	jlf	9083679
Surr: 2-Fluorobiphenyl (14-120%)	66 %					08/30/09 18:33	SW846 8270D	jlf	9083679
Surr: Nitrobenzene-d5 (17-120%)	64 %					08/30/09 18:33	SW846 8270D	jlf	9083679

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

Work Order: NSH1890
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/21/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NSH1890-08 (1211 Cardinal - Soil) Sampled: 08/20/09 13:30									
General Chemistry Parameters									
% Dry Solids	86.0		%	0.500	1	09/01/09 08:53	SW-846	AJK	9085104
Selected Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND		mg/kg dry	0.00248	1	08/29/09 06:13	SW846 8260B	SMS	9083484
Ethylbenzene	ND		mg/kg dry	0.00248	1	08/29/09 06:13	SW846 8260B	SMS	9083484
Naphthalene	ND		mg/kg dry	0.00620	1	08/29/09 06:13	SW846 8260B	SMS	9083484
Toluene	ND		mg/kg dry	0.00248	1	08/29/09 06:13	SW846 8260B	SMS	9083484
Xylenes, total	ND		mg/kg dry	0.00620	1	08/29/09 06:13	SW846 8260B	SMS	9083484
Surr: 1,2-Dichloroethane-d4 (67-138%)	104 %					08/29/09 06:13	SW846 8260B	SMS	9083484
Surr: Dibromofluoromethane (75-125%)	96 %					08/29/09 06:13	SW846 8260B	SMS	9083484
Surr: Toluene-d8 (76-129%)	100 %					08/29/09 06:13	SW846 8260B	SMS	9083484
Surr: 4-Bromofluorobenzene (67-147%)	103 %					08/29/09 06:13	SW846 8260B	SMS	9083484
Polyaromatic Hydrocarbons by EPA 8270D									
Acenaphthene	ND		mg/kg dry	0.0760	1	08/30/09 18:56	SW846 8270D	jlf	9083679
Acenaphthylene	ND		mg/kg dry	0.0760	1	08/30/09 18:56	SW846 8270D	jlf	9083679
Anthracene	ND		mg/kg dry	0.0760	1	08/30/09 18:56	SW846 8270D	jlf	9083679
Benzo (a) anthracene	ND		mg/kg dry	0.0760	1	08/30/09 18:56	SW846 8270D	jlf	9083679
Benzo (a) pyrene	ND		mg/kg dry	0.0760	1	08/30/09 18:56	SW846 8270D	jlf	9083679
Benzo (b) fluoranthene	ND		mg/kg dry	0.0760	1	08/30/09 18:56	SW846 8270D	jlf	9083679
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0760	1	08/30/09 18:56	SW846 8270D	jlf	9083679
Benzo (k) fluoranthene	ND		mg/kg dry	0.0760	1	08/30/09 18:56	SW846 8270D	jlf	9083679
Chrysene	ND		mg/kg dry	0.0760	1	08/30/09 18:56	SW846 8270D	jlf	9083679
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0760	1	08/30/09 18:56	SW846 8270D	jlf	9083679
Fluoranthene	ND		mg/kg dry	0.0760	1	08/30/09 18:56	SW846 8270D	jlf	9083679
Fluorene	ND		mg/kg dry	0.0760	1	08/30/09 18:56	SW846 8270D	jlf	9083679
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0760	1	08/30/09 18:56	SW846 8270D	jlf	9083679
Naphthalene	ND		mg/kg dry	0.0760	1	08/30/09 18:56	SW846 8270D	jlf	9083679
Phenanthrene	ND		mg/kg dry	0.0760	1	08/30/09 18:56	SW846 8270D	jlf	9083679
Pyrene	ND		mg/kg dry	0.0760	1	08/30/09 18:56	SW846 8270D	jlf	9083679
1-Methylnaphthalene	ND		mg/kg dry	0.0760	1	08/30/09 18:56	SW846 8270D	jlf	9083679
2-Methylnaphthalene	ND		mg/kg dry	0.0760	1	08/30/09 18:56	SW846 8270D	jlf	9083679
Surr: Terphenyl-d14 (18-120%)	88 %					08/30/09 18:56	SW846 8270D	jlf	9083679
Surr: 2-Fluorobiphenyl (14-120%)	62 %					08/30/09 18:56	SW846 8270D	jlf	9083679
Surr: Nitrobenzene-d5 (17-120%)	57 %					08/30/09 18:56	SW846 8270D	jlf	9083679

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

Work Order: NSH1890
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/21/09 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	9083679	NSH1890-01	30.55	1.00	08/28/09 09:15	AJF	EPA 3550B
SW846 8270D	9083679	NSH1890-01RE1	30.55	1.00	08/28/09 09:15	AJF	EPA 3550B
SW846 8270D	9083679	NSH1890-01RE2	30.55	1.00	08/28/09 09:15	AJF	EPA 3550B
SW846 8270D	9083679	NSH1890-02	30.87	1.00	08/28/09 09:15	AJF	EPA 3550B
SW846 8270D	9083679	NSH1890-03	30.17	1.00	08/28/09 09:15	AJF	EPA 3550B
SW846 8270D	9083679	NSH1890-04	30.20	1.00	08/28/09 09:15	AJF	EPA 3550B
SW846 8270D	9083679	NSH1890-05	30.36	1.00	08/28/09 09:15	AJF	EPA 3550B
SW846 8270D	9083679	NSH1890-06	30.71	1.00	08/28/09 09:15	AJF	EPA 3550B
SW846 8270D	9083679	NSH1890-07	30.30	1.00	08/28/09 09:15	AJF	EPA 3550B
SW846 8270D	9083679	NSH1890-08	30.75	1.00	08/28/09 09:15	AJF	EPA 3550B
Selected Volatile Organic Compounds by EPA Method 8260B							
SW846 8260B	9083572	NSH1890-01	5.59	5.00	08/19/09 10:30	CHH	EPA 5035
SW846 8260B	9084596	NSH1890-01RE1	5.60	5.00	08/19/09 10:30	CHH	EPA 5035
SW846 8260B	9084596	NSH1890-01RE2	5.60	5.00	08/19/09 10:30	CHH	EPA 5035
SW846 8260B	9083572	NSH1890-02	4.60	5.00	08/19/09 09:30	CHH	EPA 5035
SW846 8260B	9083572	NSH1890-02RE1	4.67	5.00	08/19/09 09:30	JRL	EPA 5035
SW846 8260B	9084596	NSH1890-02RE2	4.88	5.00	08/19/09 09:30	CHH	EPA 5035
SW846 8260B	9085110	NSH1890-02RE3	4.67	5.00	08/20/09 14:55	CHH	EPA 5035
SW846 8260B	9083484	NSH1890-03	4.54	5.00	08/19/09 14:55	JRL	EPA 5035
SW846 8260B	9084596	NSH1890-03RE1	4.45	5.00	08/19/09 14:55	JRL	EPA 5035
SW846 8260B	9085110	NSH1890-03RE2	4.44	5.00	08/20/09 14:55	JRL	EPA 5035
SW846 8260B	9083484	NSH1890-04	4.78	5.00	08/19/09 14:45	JRL	EPA 5035
SW846 8260B	9083484	NSH1890-05	4.82	5.00	08/20/09 09:10	JRL	EPA 5035
SW846 8260B	9083484	NSH1890-06	4.60	5.00	08/20/09 09:30	JRL	EPA 5035
SW846 8260B	9083484	NSH1890-07	4.87	5.00	08/20/09 11:45	JRL	EPA 5035
SW846 8260B	9083484	NSH1890-08	4.69	5.00	08/20/09 13:30	JRL	EPA 5035
SW846 8260B	9083484	NSH1890-08RE1	5.19	5.00	08/20/09 13:30	JRL	EPA 5035

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

Work Order: NSH1890
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/21/09 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						
9083484-BLK1						
Benzene	<0.000670		mg/kg wet	9083484	9083484-BLK1	08/29/09 03:13
Ethylbenzene	<0.000670		mg/kg wet	9083484	9083484-BLK1	08/29/09 03:13
Naphthalene	<0.00170		mg/kg wet	9083484	9083484-BLK1	08/29/09 03:13
Toluene	0.000440	B	mg/kg wet	9083484	9083484-BLK1	08/29/09 03:13
Xylenes, total	<0.00130		mg/kg wet	9083484	9083484-BLK1	08/29/09 03:13
Surrogate: 1,2-Dichloroethane-d4	105%			9083484	9083484-BLK1	08/29/09 03:13
Surrogate: Dibromofluoromethane	96%			9083484	9083484-BLK1	08/29/09 03:13
Surrogate: Toluene-d8	96%			9083484	9083484-BLK1	08/29/09 03:13
Surrogate: 4-Bromofluorobenzene	95%			9083484	9083484-BLK1	08/29/09 03:13
9083572-BLK1						
Benzene	<0.000670		mg/kg wet	9083572	9083572-BLK1	08/28/09 15:43
Ethylbenzene	<0.000670		mg/kg wet	9083572	9083572-BLK1	08/28/09 15:43
Naphthalene	<0.00170		mg/kg wet	9083572	9083572-BLK1	08/28/09 15:43
Toluene	0.000580	B	mg/kg wet	9083572	9083572-BLK1	08/28/09 15:43
Xylenes, total	<0.00130		mg/kg wet	9083572	9083572-BLK1	08/28/09 15:43
Surrogate: 1,2-Dichloroethane-d4	107%			9083572	9083572-BLK1	08/28/09 15:43
Surrogate: Dibromofluoromethane	99%			9083572	9083572-BLK1	08/28/09 15:43
Surrogate: Toluene-d8	96%			9083572	9083572-BLK1	08/28/09 15:43
Surrogate: 4-Bromofluorobenzene	95%			9083572	9083572-BLK1	08/28/09 15:43
9084596-BLK1						
Benzene	<0.000670		mg/kg wet	9084596	9084596-BLK1	08/31/09 15:00
Ethylbenzene	<0.000670		mg/kg wet	9084596	9084596-BLK1	08/31/09 15:00
Naphthalene	<0.00170		mg/kg wet	9084596	9084596-BLK1	08/31/09 15:00
Toluene	<0.000400		mg/kg wet	9084596	9084596-BLK1	08/31/09 15:00
Xylenes, total	<0.00130		mg/kg wet	9084596	9084596-BLK1	08/31/09 15:00
Surrogate: 1,2-Dichloroethane-d4	106%			9084596	9084596-BLK1	08/31/09 15:00
Surrogate: Dibromofluoromethane	96%			9084596	9084596-BLK1	08/31/09 15:00
Surrogate: Toluene-d8	97%			9084596	9084596-BLK1	08/31/09 15:00
Surrogate: 4-Bromofluorobenzene	95%			9084596	9084596-BLK1	08/31/09 15:00
9085110-BLK1						
Benzene	<0.0335		mg/kg wet	9085110	9085110-BLK1	09/02/09 12:48
Ethylbenzene	<0.0335		mg/kg wet	9085110	9085110-BLK1	09/02/09 12:48
Naphthalene	<0.0850		mg/kg wet	9085110	9085110-BLK1	09/02/09 12:48
Toluene	<0.0200		mg/kg wet	9085110	9085110-BLK1	09/02/09 12:48
Xylenes, total	<0.0650		mg/kg wet	9085110	9085110-BLK1	09/02/09 12:48
Surrogate: 1,2-Dichloroethane-d4	105%			9085110	9085110-BLK1	09/02/09 12:48
Surrogate: Dibromofluoromethane	105%			9085110	9085110-BLK1	09/02/09 12:48
Surrogate: Toluene-d8	96%			9085110	9085110-BLK1	09/02/09 12:48
Surrogate: 4-Bromofluorobenzene	102%			9085110	9085110-BLK1	09/02/09 12:48

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

Work Order: NSH1890
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/21/09 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

9083679-BLK1

Acenaphthene	<0.0320		mg/kg wet	9083679	9083679-BLK1	08/30/09 14:47
Acenaphthylene	<0.0310		mg/kg wet	9083679	9083679-BLK1	08/30/09 14:47
Anthracene	<0.0330		mg/kg wet	9083679	9083679-BLK1	08/30/09 14:47
Benzo (a) anthracene	<0.0380		mg/kg wet	9083679	9083679-BLK1	08/30/09 14:47
Benzo (a) pyrene	<0.0300		mg/kg wet	9083679	9083679-BLK1	08/30/09 14:47
Benzo (b) fluoranthene	<0.0300		mg/kg wet	9083679	9083679-BLK1	08/30/09 14:47
Benzo (g,h,i) perylene	<0.0300		mg/kg wet	9083679	9083679-BLK1	08/30/09 14:47
Benzo (k) fluoranthene	<0.0300		mg/kg wet	9083679	9083679-BLK1	08/30/09 14:47
Chrysene	<0.0400		mg/kg wet	9083679	9083679-BLK1	08/30/09 14:47
Dibenz (a,h) anthracene	<0.0310		mg/kg wet	9083679	9083679-BLK1	08/30/09 14:47
Fluoranthene	<0.0340		mg/kg wet	9083679	9083679-BLK1	08/30/09 14:47
Fluorene	<0.0360		mg/kg wet	9083679	9083679-BLK1	08/30/09 14:47
Indeno (1,2,3-cd) pyrene	<0.0310		mg/kg wet	9083679	9083679-BLK1	08/30/09 14:47
Naphthalene	<0.0410		mg/kg wet	9083679	9083679-BLK1	08/30/09 14:47
Phenanthrene	<0.0340		mg/kg wet	9083679	9083679-BLK1	08/30/09 14:47
Pyrene	<0.0410		mg/kg wet	9083679	9083679-BLK1	08/30/09 14:47
1-Methylnaphthalene	<0.0320		mg/kg wet	9083679	9083679-BLK1	08/30/09 14:47
2-Methylnaphthalene	<0.0330		mg/kg wet	9083679	9083679-BLK1	08/30/09 14:47
Surrogate: Terphenyl-d14	95%			9083679	9083679-BLK1	08/30/09 14:47
Surrogate: 2-Fluorobiphenyl	78%			9083679	9083679-BLK1	08/30/09 14:47
Surrogate: Nitrobenzene-d5	72%			9083679	9083679-BLK1	08/30/09 14:47

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

Work Order: NSH1890
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/21/09 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										
9085104-DUP1										
% Dry Solids	95.8	96.2		%	0.4	20	9085104	NSH1879-01		09/01/09 08:53

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

Work Order: NSH1890
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/21/09 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								
9083484-BS1								
Benzene	50.0	51.7		ug/kg	103%	78 - 126	9083484	08/29/09 01:14
Ethylbenzene	50.0	55.1		ug/kg	110%	79 - 130	9083484	08/29/09 01:14
Naphthalene	50.0	60.5		ug/kg	121%	72 - 150	9083484	08/29/09 01:14
Toluene	50.0	53.2		ug/kg	106%	76 - 126	9083484	08/29/09 01:14
Xylenes, total	150	165		ug/kg	110%	80 - 130	9083484	08/29/09 01:14
Surrogate: 1,2-Dichloroethane-d4	50.0	53.1			106%	67 - 138	9083484	08/29/09 01:14
Surrogate: Dibromofluoromethane	50.0	50.6			101%	75 - 125	9083484	08/29/09 01:14
Surrogate: Toluene-d8	50.0	50.5			101%	76 - 129	9083484	08/29/09 01:14
Surrogate: 4-Bromofluorobenzene	50.0	49.1			98%	67 - 147	9083484	08/29/09 01:14
9083572-BS1								
Benzene	50.0	52.2		ug/kg	104%	78 - 126	9083572	08/28/09 13:13
Ethylbenzene	50.0	57.5		ug/kg	115%	79 - 130	9083572	08/28/09 13:13
Naphthalene	50.0	59.0		ug/kg	118%	72 - 150	9083572	08/28/09 13:13
Toluene	50.0	54.6		ug/kg	109%	76 - 126	9083572	08/28/09 13:13
Xylenes, total	150	173		ug/kg	115%	80 - 130	9083572	08/28/09 13:13
Surrogate: 1,2-Dichloroethane-d4	50.0	52.6			105%	67 - 138	9083572	08/28/09 13:13
Surrogate: Dibromofluoromethane	50.0	51.7			103%	75 - 125	9083572	08/28/09 13:13
Surrogate: Toluene-d8	50.0	50.2			100%	76 - 129	9083572	08/28/09 13:13
Surrogate: 4-Bromofluorobenzene	50.0	47.9			96%	67 - 147	9083572	08/28/09 13:13
9084596-BS1								
Benzene	50.0	51.1		ug/kg	102%	78 - 126	9084596	08/31/09 13:00
Ethylbenzene	50.0	51.4		ug/kg	103%	79 - 130	9084596	08/31/09 13:00
Naphthalene	50.0	53.7		ug/kg	107%	72 - 150	9084596	08/31/09 13:00
Toluene	50.0	50.0		ug/kg	100%	76 - 126	9084596	08/31/09 13:00
Xylenes, total	150	155		ug/kg	104%	80 - 130	9084596	08/31/09 13:00
Surrogate: 1,2-Dichloroethane-d4	50.0	52.1			104%	67 - 138	9084596	08/31/09 13:00
Surrogate: Dibromofluoromethane	50.0	50.4			101%	75 - 125	9084596	08/31/09 13:00
Surrogate: Toluene-d8	50.0	49.7			99%	76 - 129	9084596	08/31/09 13:00
Surrogate: 4-Bromofluorobenzene	50.0	48.9			98%	67 - 147	9084596	08/31/09 13:00
9085110-BS1								
Benzene	50.0	50.3		ug/kg	101%	78 - 126	9085110	09/02/09 10:13
Ethylbenzene	50.0	49.7		ug/kg	99%	79 - 130	9085110	09/02/09 10:13
Naphthalene	50.0	51.6		ug/kg	103%	72 - 150	9085110	09/02/09 10:13
Toluene	50.0	54.1		ug/kg	108%	76 - 126	9085110	09/02/09 10:13
Xylenes, total	150	140		ug/kg	94%	80 - 130	9085110	09/02/09 10:13
Surrogate: 1,2-Dichloroethane-d4	25.0	25.7			103%	67 - 138	9085110	09/02/09 10:13
Surrogate: Dibromofluoromethane	25.0	26.0			104%	75 - 125	9085110	09/02/09 10:13
Surrogate: Toluene-d8	25.0	25.5			102%	76 - 129	9085110	09/02/09 10:13
Surrogate: 4-Bromofluorobenzene	25.0	23.4			94%	67 - 147	9085110	09/02/09 10:13

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

Work Order: NSH1890
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/21/09 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								
9083679-BS1								
Acenaphthene	1.67	1.34		mg/kg wet	80%	49 - 120	9083679	08/30/09 15:10
Acenaphthylene	1.67	1.39		mg/kg wet	83%	52 - 120	9083679	08/30/09 15:10
Anthracene	1.67	1.59		mg/kg wet	95%	58 - 120	9083679	08/30/09 15:10
Benzo (a) anthracene	1.67	1.32		mg/kg wet	79%	57 - 120	9083679	08/30/09 15:10
Benzo (a) pyrene	1.67	1.45		mg/kg wet	87%	55 - 120	9083679	08/30/09 15:10
Benzo (b) fluoranthene	1.67	1.35		mg/kg wet	81%	51 - 123	9083679	08/30/09 15:10
Benzo (g,h,i) perylene	1.67	1.55		mg/kg wet	93%	49 - 121	9083679	08/30/09 15:10
Benzo (k) fluoranthene	1.67	1.40		mg/kg wet	84%	42 - 129	9083679	08/30/09 15:10
Chrysene	1.67	1.37		mg/kg wet	82%	55 - 120	9083679	08/30/09 15:10
Dibenz (a,h) anthracene	1.67	1.54		mg/kg wet	92%	50 - 123	9083679	08/30/09 15:10
Fluoranthene	1.67	1.37		mg/kg wet	82%	58 - 120	9083679	08/30/09 15:10
Fluorene	1.67	1.35		mg/kg wet	81%	54 - 120	9083679	08/30/09 15:10
Indeno (1,2,3-cd) pyrene	1.67	1.53		mg/kg wet	92%	50 - 122	9083679	08/30/09 15:10
Naphthalene	1.67	1.08		mg/kg wet	65%	28 - 120	9083679	08/30/09 15:10
Phenanthrene	1.67	1.43		mg/kg wet	86%	56 - 120	9083679	08/30/09 15:10
Pyrene	1.67	1.42		mg/kg wet	85%	56 - 120	9083679	08/30/09 15:10
1-Methylnaphthalene	1.67	0.969		mg/kg wet	58%	36 - 120	9083679	08/30/09 15:10
2-Methylnaphthalene	1.67	1.02		mg/kg wet	61%	36 - 120	9083679	08/30/09 15:10
Surrogate: Terphenyl-d14	1.67	1.38			83%	18 - 120	9083679	08/30/09 15:10
Surrogate: 2-Fluorobiphenyl	1.67	1.26			76%	14 - 120	9083679	08/30/09 15:10
Surrogate: Nitrobenzene-d5	1.67	1.00			60%	17 - 120	9083679	08/30/09 15:10

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

Work Order: NSH1890
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/21/09 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												
9083484-BSD1												
Benzene		51.4		ug/kg	50.0	103%	78 - 126	0.5	50	9083484		08/29/09 01:44
Ethylbenzene		53.6		ug/kg	50.0	107%	79 - 130	3	50	9083484		08/29/09 01:44
Naphthalene		52.8		ug/kg	50.0	106%	72 - 150	14	50	9083484		08/29/09 01:44
Toluene		52.5		ug/kg	50.0	105%	76 - 126	1	50	9083484		08/29/09 01:44
Xylenes, total		161		ug/kg	150	107%	80 - 130	2	50	9083484		08/29/09 01:44
Surrogate: 1,2-Dichloroethane-d4		52.8		ug/kg	50.0	106%	67 - 138			9083484		08/29/09 01:44
Surrogate: Dibromofluoromethane		51.0		ug/kg	50.0	102%	75 - 125			9083484		08/29/09 01:44
Surrogate: Toluene-d8		50.6		ug/kg	50.0	101%	76 - 129			9083484		08/29/09 01:44
Surrogate: 4-Bromofluorobenzene		49.3		ug/kg	50.0	99%	67 - 147			9083484		08/29/09 01:44
9084596-BSD1												
Benzene		49.4		ug/kg	50.0	99%	78 - 126	3	50	9084596		08/31/09 13:30
Ethylbenzene		52.2		ug/kg	50.0	104%	79 - 130	2	50	9084596		08/31/09 13:30
Naphthalene		54.0		ug/kg	50.0	108%	72 - 150	0.5	50	9084596		08/31/09 13:30
Toluene		51.1		ug/kg	50.0	102%	76 - 126	2	50	9084596		08/31/09 13:30
Xylenes, total		157		ug/kg	150	105%	80 - 130	1	50	9084596		08/31/09 13:30
Surrogate: 1,2-Dichloroethane-d4		52.2		ug/kg	50.0	104%	67 - 138			9084596		08/31/09 13:30
Surrogate: Dibromofluoromethane		50.5		ug/kg	50.0	101%	75 - 125			9084596		08/31/09 13:30
Surrogate: Toluene-d8		50.0		ug/kg	50.0	100%	76 - 129			9084596		08/31/09 13:30
Surrogate: 4-Bromofluorobenzene		47.9		ug/kg	50.0	96%	67 - 147			9084596		08/31/09 13:30
9085110-BSD1												
Benzene		51.2		ug/kg	50.0	102%	78 - 126	2	50	9085110		09/02/09 10:41
Ethylbenzene		50.6		ug/kg	50.0	101%	79 - 130	2	50	9085110		09/02/09 10:41
Naphthalene		51.2		ug/kg	50.0	102%	72 - 150	0.8	50	9085110		09/02/09 10:41
Toluene		55.2		ug/kg	50.0	110%	76 - 126	2	50	9085110		09/02/09 10:41
Xylenes, total		145		ug/kg	150	96%	80 - 130	3	50	9085110		09/02/09 10:41
Surrogate: 1,2-Dichloroethane-d4		25.5		ug/kg	25.0	102%	67 - 138			9085110		09/02/09 10:41
Surrogate: Dibromofluoromethane		25.8		ug/kg	25.0	103%	75 - 125			9085110		09/02/09 10:41
Surrogate: Toluene-d8		25.3		ug/kg	25.0	101%	76 - 129			9085110		09/02/09 10:41
Surrogate: 4-Bromofluorobenzene		23.2		ug/kg	25.0	93%	67 - 147			9085110		09/02/09 10:41

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

Work Order: NSH1890
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/21/09 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										
9083484-MS1										
Benzene	ND	2.57		mg/kg dry	2.91	88%	42 - 141	9083484	NSH1890-08RE I	08/29/09 07:13
Ethylbenzene	ND	2.74		mg/kg dry	2.91	94%	21 - 165	9083484	NSH1890-08RE I	08/29/09 07:13
Naphthalene	ND	2.60		mg/kg dry	2.91	89%	10 - 160	9083484	NSH1890-08RE I	08/29/09 07:13
Toluene	0.0263	2.55		mg/kg dry	2.91	87%	45 - 145	9083484	NSH1890-08RE I	08/29/09 07:13
Xylenes, total	ND	8.40		mg/kg dry	8.72	96%	31 - 159	9083484	NSH1890-08RE I	08/29/09 07:13
Surrogate: 1,2-Dichloroethane-d4		48.2		ug/kg	50.0	96%	67 - 138	9083484	NSH1890-08RE I	08/29/09 07:13
Surrogate: Dibromofluoromethane		49.4		ug/kg	50.0	99%	75 - 125	9083484	NSH1890-08RE I	08/29/09 07:13
Surrogate: Toluene-d8		47.8		ug/kg	50.0	96%	76 - 129	9083484	NSH1890-08RE I	08/29/09 07:13
Surrogate: 4-Bromofluorobenzene		46.9		ug/kg	50.0	94%	67 - 147	9083484	NSH1890-08RE I	08/29/09 07:13
9083572-MS1										
Benzene	ND	2.43		mg/kg dry	2.66	91%	42 - 141	9083572	NSH1890-02RE I	08/28/09 22:44
Ethylbenzene	0.0787	2.72		mg/kg dry	2.66	99%	21 - 165	9083572	NSH1890-02RE I	08/28/09 22:44
Naphthalene	0.780	2.82		mg/kg dry	2.66	77%	10 - 160	9083572	NSH1890-02RE I	08/28/09 22:44
Toluene	0.0775	2.49		mg/kg dry	2.66	91%	45 - 145	9083572	NSH1890-02RE I	08/28/09 22:44
Xylenes, total	0.292	8.14		mg/kg dry	7.99	98%	31 - 159	9083572	NSH1890-02RE I	08/28/09 22:44
Surrogate: 1,2-Dichloroethane-d4		50.6		ug/kg	50.0	101%	67 - 138	9083572	NSH1890-02RE I	08/28/09 22:44
Surrogate: Dibromofluoromethane		48.4		ug/kg	50.0	97%	75 - 125	9083572	NSH1890-02RE I	08/28/09 22:44
Surrogate: Toluene-d8		48.7		ug/kg	50.0	97%	76 - 129	9083572	NSH1890-02RE I	08/28/09 22:44
Surrogate: 4-Bromofluorobenzene		51.5		ug/kg	50.0	103%	67 - 147	9083572	NSH1890-02RE I	08/28/09 22:44
9084596-MS1										
Benzene	ND	2.48		mg/kg wet	2.50	99%	42 - 141	9084596	NSH1986-01RE I	08/31/09 23:34
Ethylbenzene	0.920	3.38		mg/kg wet	2.50	98%	21 - 165	9084596	NSH1986-01RE I	08/31/09 23:34
Naphthalene	1.85	4.24		mg/kg wet	2.50	96%	10 - 160	9084596	NSH1986-01RE I	08/31/09 23:34
Toluene	0.0311	2.34		mg/kg wet	2.50	92%	45 - 145	9084596	NSH1986-01RE I	08/31/09 23:34

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

Work Order: NSH1890
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/21/09 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
Selected Volatile Organic Compounds by EPA Method 8260B										
9084596-MS1										
Xylenes, total	2.31	9.68		mg/kg wet	7.50	98%	31 - 159	9084596	NSH1986-01RE 1	08/31/09 23:34
Surrogate: 1,2-Dichloroethane-d4		49.6		ug/kg	50.0	99%	67 - 138	9084596	NSH1986-01RE 1	08/31/09 23:34
Surrogate: Dibromofluoromethane		49.2		ug/kg	50.0	98%	75 - 125	9084596	NSH1986-01RE 1	08/31/09 23:34
Surrogate: Toluene-d8		47.3		ug/kg	50.0	95%	76 - 129	9084596	NSH1986-01RE 1	08/31/09 23:34
Surrogate: 4-Bromofluorobenzene		48.0		ug/kg	50.0	96%	67 - 147	9084596	NSH1986-01RE 1	08/31/09 23:34
Polyaromatic Hydrocarbons by EPA 8270D										
9083679-MS1										
Acenaphthene	ND	1.27		mg/kg dry	1.74	73%	42 - 120	9083679	NSH1908-05	08/30/09 15:32
Acenaphthylene	ND	1.31		mg/kg dry	1.74	75%	32 - 120	9083679	NSH1908-05	08/30/09 15:32
Anthracene	ND	1.45		mg/kg dry	1.74	83%	10 - 200	9083679	NSH1908-05	08/30/09 15:32
Benzo (a) anthracene	ND	1.21		mg/kg dry	1.74	70%	41 - 120	9083679	NSH1908-05	08/30/09 15:32
Benzo (a) pyrene	ND	1.32		mg/kg dry	1.74	76%	33 - 121	9083679	NSH1908-05	08/30/09 15:32
Benzo (b) fluoranthene	ND	1.32		mg/kg dry	1.74	76%	26 - 137	9083679	NSH1908-05	08/30/09 15:32
Benzo (g,h,i) perylene	ND	1.43		mg/kg dry	1.74	82%	21 - 124	9083679	NSH1908-05	08/30/09 15:32
Benzo (k) fluoranthene	ND	1.24		mg/kg dry	1.74	71%	14 - 140	9083679	NSH1908-05	08/30/09 15:32
Chrysene	ND	1.26		mg/kg dry	1.74	73%	28 - 123	9083679	NSH1908-05	08/30/09 15:32
Dibenz (a,h) anthracene	ND	1.42		mg/kg dry	1.74	82%	25 - 127	9083679	NSH1908-05	08/30/09 15:32
Fluoranthene	ND	1.25		mg/kg dry	1.74	72%	38 - 120	9083679	NSH1908-05	08/30/09 15:32
Fluorene	ND	1.28		mg/kg dry	1.74	73%	41 - 120	9083679	NSH1908-05	08/30/09 15:32
Indeno (1,2,3-cd) pyrene	ND	1.41		mg/kg dry	1.74	81%	25 - 123	9083679	NSH1908-05	08/30/09 15:32
Naphthalene	ND	1.07		mg/kg dry	1.74	61%	25 - 120	9083679	NSH1908-05	08/30/09 15:32
Phenanthrene	ND	1.31		mg/kg dry	1.74	76%	37 - 120	9083679	NSH1908-05	08/30/09 15:32
Pyrene	ND	1.31		mg/kg dry	1.74	75%	29 - 125	9083679	NSH1908-05	08/30/09 15:32
1-Methylnaphthalene	ND	0.951		mg/kg dry	1.74	55%	19 - 120	9083679	NSH1908-05	08/30/09 15:32
2-Methylnaphthalene	ND	0.989		mg/kg dry	1.74	57%	11 - 120	9083679	NSH1908-05	08/30/09 15:32
Surrogate: Terphenyl-d14		1.25		mg/kg dry	1.74	72%	18 - 120	9083679	NSH1908-05	08/30/09 15:32
Surrogate: 2-Fluorobiphenyl		1.24		mg/kg dry	1.74	71%	14 - 120	9083679	NSH1908-05	08/30/09 15:32
Surrogate: Nitrobenzene-d5		1.04		mg/kg dry	1.74	60%	17 - 120	9083679	NSH1908-05	08/30/09 15:32

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

Work Order: NSH1890
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/21/09 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												
9083484-MSD1												
Benzene	ND	2.35		mg/kg dry	2.91	81%	42 - 141	9	50	9083484	NSH1890-08R E1	08/29/09 07:43
Ethylbenzene	ND	2.41		mg/kg dry	2.91	83%	21 - 165	13	50	9083484	NSH1890-08R E1	08/29/09 07:43
Naphthalene	ND	2.45		mg/kg dry	2.91	84%	10 - 160	6	50	9083484	NSH1890-08R E1	08/29/09 07:43
Toluene	0.0263	2.32		mg/kg dry	2.91	79%	45 - 145	10	50	9083484	NSH1890-08R E1	08/29/09 07:43
Xylenes, total	ND	7.33		mg/kg dry	8.72	84%	31 - 159	14	50	9083484	NSH1890-08R E1	08/29/09 07:43
Surrogate: 1,2-Dichloroethane-d4		49.8		ug/kg	50.0	100%	67 - 138			9083484	NSH1890-08R E1	08/29/09 07:43
Surrogate: Dibromofluoromethane		49.5		ug/kg	50.0	99%	75 - 125			9083484	NSH1890-08R E1	08/29/09 07:43
Surrogate: Toluene-d8		47.4		ug/kg	50.0	95%	76 - 129			9083484	NSH1890-08R E1	08/29/09 07:43
Surrogate: 4-Bromofluorobenzene		46.8		ug/kg	50.0	94%	67 - 147			9083484	NSH1890-08R E1	08/29/09 07:43
9083572-MSD1												
Benzene	ND	2.17		mg/kg dry	2.66	81%	42 - 141	11	50	9083572	NSH1890-02R E1	08/28/09 23:14
Ethylbenzene	0.0787	2.36		mg/kg dry	2.66	86%	21 - 165	14	50	9083572	NSH1890-02R E1	08/28/09 23:14
Naphthalene	0.780	2.35		mg/kg dry	2.66	59%	10 - 160	18	50	9083572	NSH1890-02R E1	08/28/09 23:14
Toluene	0.0775	2.15		mg/kg dry	2.66	78%	45 - 145	14	50	9083572	NSH1890-02R E1	08/28/09 23:14
Xylenes, total	0.292	6.95		mg/kg dry	7.99	83%	31 - 159	16	50	9083572	NSH1890-02R E1	08/28/09 23:14
Surrogate: 1,2-Dichloroethane-d4		49.7		ug/kg	50.0	99%	67 - 138			9083572	NSH1890-02R E1	08/28/09 23:14
Surrogate: Dibromofluoromethane		46.5		ug/kg	50.0	93%	75 - 125			9083572	NSH1890-02R E1	08/28/09 23:14
Surrogate: Toluene-d8		48.7		ug/kg	50.0	97%	76 - 129			9083572	NSH1890-02R E1	08/28/09 23:14
Surrogate: 4-Bromofluorobenzene		52.5		ug/kg	50.0	105%	67 - 147			9083572	NSH1890-02R E1	08/28/09 23:14
9084596-MSD1												
Benzene	ND	2.51		mg/kg wet	2.50	100%	42 - 141	1	50	9084596	NSH1986-01R E1	09/01/09 00:04
Ethylbenzene	0.920	3.38		mg/kg wet	2.50	98%	21 - 165	0.09	50	9084596	NSH1986-01R E1	09/01/09 00:04
Toluene	0.0311	2.33		mg/kg wet	2.50	92%	45 - 145	0.4	50	9084596	NSH1986-01R E1	09/01/09 00:04
Xylenes, total	2.31	9.68		mg/kg wet	7.50	98%	31 - 159	0.005	50	9084596	NSH1986-01R E1	09/01/09 00:04
Surrogate: 1,2-Dichloroethane-d4		48.2		ug/kg	50.0	96%	67 - 138			9084596	NSH1986-01R E1	09/01/09 00:04

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

Work Order: NSH1890
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/21/09 08:00

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Selected Volatile Organic Compounds by EPA Method 8260B												
9084596-MSD1												
Surrogate: Dibromofluoromethane		48.9		ug/kg	50.0	98%	75 - 125			9084596	NSH1986-01R E1	09/01/09 00:04
Surrogate: Toluene-d8		46.6		ug/kg	50.0	93%	76 - 129			9084596	NSH1986-01R E1	09/01/09 00:04
Surrogate: 4-Bromofluorobenzene		47.9		ug/kg	50.0	96%	67 - 147			9084596	NSH1986-01R E1	09/01/09 00:04
Polyaromatic Hydrocarbons by EPA 8270D												
9083679-MSD1												
Accenaphthene	ND	1.37		mg/kg dry	1.73	79%	42 - 120	8	40	9083679	NSH1908-05	08/30/09 15:55
Accenaphthylenc	ND	1.40		mg/kg dry	1.73	81%	32 - 120	7	30	9083679	NSH1908-05	08/30/09 15:55
Anthracene	ND	1.59		mg/kg dry	1.73	92%	10 - 200	9	50	9083679	NSH1908-05	08/30/09 15:55
Benzo (a) anthracene	ND	1.33		mg/kg dry	1.73	77%	41 - 120	9	30	9083679	NSH1908-05	08/30/09 15:55
Benzo (a) pyrene	ND	1.43		mg/kg dry	1.73	82%	33 - 121	8	33	9083679	NSH1908-05	08/30/09 15:55
Benzo (b) fluoranthene	ND	1.43		mg/kg dry	1.73	82%	26 - 137	7	42	9083679	NSH1908-05	08/30/09 15:55
Benzo (g,h,i) perylene	ND	1.54		mg/kg dry	1.73	89%	21 - 124	8	32	9083679	NSH1908-05	08/30/09 15:55
Benzo (k) fluoranthene	ND	1.38		mg/kg dry	1.73	80%	14 - 140	10	39	9083679	NSH1908-05	08/30/09 15:55
Chrysene	ND	1.36		mg/kg dry	1.73	79%	28 - 123	8	34	9083679	NSH1908-05	08/30/09 15:55
Dibenz (a,h) anthracene	ND	1.56		mg/kg dry	1.73	90%	25 - 127	9	31	9083679	NSH1908-05	08/30/09 15:55
Fluoranthene	ND	1.38		mg/kg dry	1.73	80%	38 - 120	10	35	9083679	NSH1908-05	08/30/09 15:55
Fluorene	ND	1.38		mg/kg dry	1.73	80%	41 - 120	8	37	9083679	NSH1908-05	08/30/09 15:55
Indeno (1,2,3-cd) pyrene	ND	1.54		mg/kg dry	1.73	89%	25 - 123	9	32	9083679	NSH1908-05	08/30/09 15:55
Naphthalene	ND	1.07		mg/kg dry	1.73	62%	25 - 120	0.5	42	9083679	NSH1908-05	08/30/09 15:55
Phenanthrene	ND	1.44		mg/kg dry	1.73	83%	37 - 120	10	32	9083679	NSH1908-05	08/30/09 15:55
Pyrene	ND	1.42		mg/kg dry	1.73	82%	29 - 125	8	40	9083679	NSH1908-05	08/30/09 15:55
1-Methylnaphthalene	ND	0.994		mg/kg dry	1.73	57%	19 - 120	4	45	9083679	NSH1908-05	08/30/09 15:55
2-Methylnaphthalene	ND	1.03		mg/kg dry	1.73	59%	11 - 120	4	50	9083679	NSH1908-05	08/30/09 15:55
Surrogate: Terphenyl-d14		1.37		mg/kg dry	1.73	79%	18 - 120			9083679	NSH1908-05	08/30/09 15:55
Surrogate: 2-Fluorobiphenyl		1.35		mg/kg dry	1.73	78%	14 - 120			9083679	NSH1908-05	08/30/09 15:55
Surrogate: Nitrobenzene-d5		1.10		mg/kg dry	1.73	64%	17 - 120			9083679	NSH1908-05	08/30/09 15:55

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

Work Order: NSH1890
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/21/09 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 McElwee

Work Order: NSH1890
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 08/21/09 08:00

DATA QUALIFIERS AND DEFINITIONS

B Analyte was detected in the associated Method Blank.
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 37204

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

NSH1890

09/04/09 23:59

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.: 843-874-0401

Sampler Name: (Print) PRAH SKALI

Sampler Signature: *PRAH SKALI*

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	Ice	Preservative						Matrix						Analyze For:																RUSH TAT (Pre-Schedule)
								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 - 82608	PAH - 8270D														
01 1190 Bahawite	8/19/09	1030	5	X				2					2						X		3	2														
02 1186 Bahawite	8/19/09	0930	5	X				2					2						X		3	2														
03 1210 CARDINAL	8/19/09	1455	5	X				2					2						X		3	2														
04 1206 CARDINAL	8/19/09	1445	5	X				2					2						X		3	2														
05 1205 CARDINAL	8/20/09	0910	5	X				2					2						X		3	2														
06 1201 CARDINAL	8/20/09	0930	5	X				2					2						X		3	2														
07 1207 CARDINAL	8/20/09	1145	5	X				2					2						X		3	2														
08 1211 CARDINAL	8/20/09	1330	5	X				2					2						X		3	2														

Special Instructions:

Relinquished by: *[Signature]* Date: 8/20/09 Time: 1400 Method of Shipment: FEDEX Received by: *[Signature]* Date: 8/21 Time: 8:10

Relinquished by: *[Signature]* Date: *[Blank]* Time: *[Blank]* Received by: *[Signature]* Date: 8/21 Time: 8:10

Laboratory Comments:

Temperature Upon Receipt:
VOCs Free of Headspace?

Y

ATTACHMENT A



NON-HAZARDOUS MANIFEST

CWM

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 10885421				
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 843 870-0411		
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	I. Misc. Comments
a. Heating Oil Tank filled with Sand						8.61	TN	
WM Profile # 1028558C				001				
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 GEN USE FROM 3/1205 CARDINAL 5/1207 CARDINAL 1/1210 CARDINAL 4/1201 CARDINAL 6/1211 CARDINAL Purchase Order # 2/1206 CARDINAL				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.G. Duke, Jr.				Signature "On behalf of" <i>[Signature]</i>			Month Day Year 08/11/09	
17. Transporter 1 Acknowledgement of Receipt of Materials								
Printed/Typed Name James Baldwin				Signature <i>[Signature]</i>			Month Day Year 08/10/09	
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 <i>[Signature]</i>			Month Day Year 09/03/09	

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**

April 6, 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 Report for:

- 1205 Cardinal Lane
- 1201 Cardinal Lane
- 1207 Cardinal Lane

Dear Mr. Drawdy,

The South Carolina Department of Health and Environmental Control (the Department) received the above referenced Underground Storage Tanks (USTs) Assessment Report on November 13, 2009 for the addresses listed above.

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

Please note that the Department's decision is based on information provided by the Marine 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: April 6, 2010

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

Underground Storage Tank (UST) Assessment Report
1201 Cardinal Lane, Laurel Bay Military Housing Area
1205 Cardinal Lane, Laurel Bay Military Housing Area
1207 Cardinal Lane, Laurel Bay Military Housing Area
Dated September 2009

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

USTs 1201 Cardinal Lane, 1205 Cardinal Lane and 1207 Cardinal 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 August 19, 2009 through the August 20, 2009 field activities and disposed of at a subtitle D landfill.

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