SUMMARY REPORT
405 WEST CARDINAL LANE (FORMERLY 1358 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 20**2**1

SUMMARY REPORT
405 WEST CARDINAL LANE (FORMERLY 1358 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

Prepared by:

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

Contract Number: N62470-14-D-9016
CTO WE52
JUNE 20**2**1

Table of Contents

Table

Appendices

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 405 West Cardinal Lane (Formerly 1358 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 405 West Cardinal Lane (Formerly 1358 West Cardinal Lane). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 1358 West Cardinal Lane* (MCAS Beaufort, 2011). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On April 13, 2011, a single 280 gallon heating oil UST was removed from the front yard adjacent to the driveway area at 405 West Cardinal Lane (Formerly 1358 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 6'4" bgs and a single soil sample was

collected from that depth. The sample was collected from the fill port side of the former UST to represent a worst case scenario.

Following UST removal, a soil sample was collected from the base of the excavation and shipped to an offsite laboratory for analysis of the petroleum COPCs. Sampling was performed in accordance with applicable South Carolina regulation R.61-92, Part 280 (SCDHEC, 2017) and assessment guidelines.

2.2 Soil Analytical Results

A summary of the laboratory analytical results and SCDHEC RBSLs is presented in Table 1. A copy of the laboratory analytical data report is included in the UST Assessment Report presented in Appendix B. The laboratory analytical data report includes the soil results for the additional PAHs that were analyzed, but do not have associated RBSLs.

The soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form (Appendix B). The results of the soil sampling at the former UST location were used by MCAS Beaufort, in consultation with SCDHEC, to determine a path forward (i.e., additional sampling or NFA) for the property. The soil results collected from 405 West Cardinal Lane (Formerly 1358 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 405 West Cardinal Lane (Formerly 1358 West Cardinal Lane). This NFA determination was obtained in a letter dated April 9, 2014. SCDHEC's NFA letter is provided in Appendix C.

4.0 REFERENCES

Marine Corps Air Station Beaufort, 2011. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 1358 West Cardinal Lane, Laurel Bay Military Housing Area*, September 2011.

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
405 West Cardinal Lane (Formerly 1358 West Cardinal Lane)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs [(1)]	Results Sample Collected 04/13/11
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)		
Benzene	0.003	ND
Ethylbenzene	1.15	ND
Naphthalene	0.036	**0.00951**
Toluene	0.627	**0.000930**
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 2.0 (SCDHEC, April 2013).

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

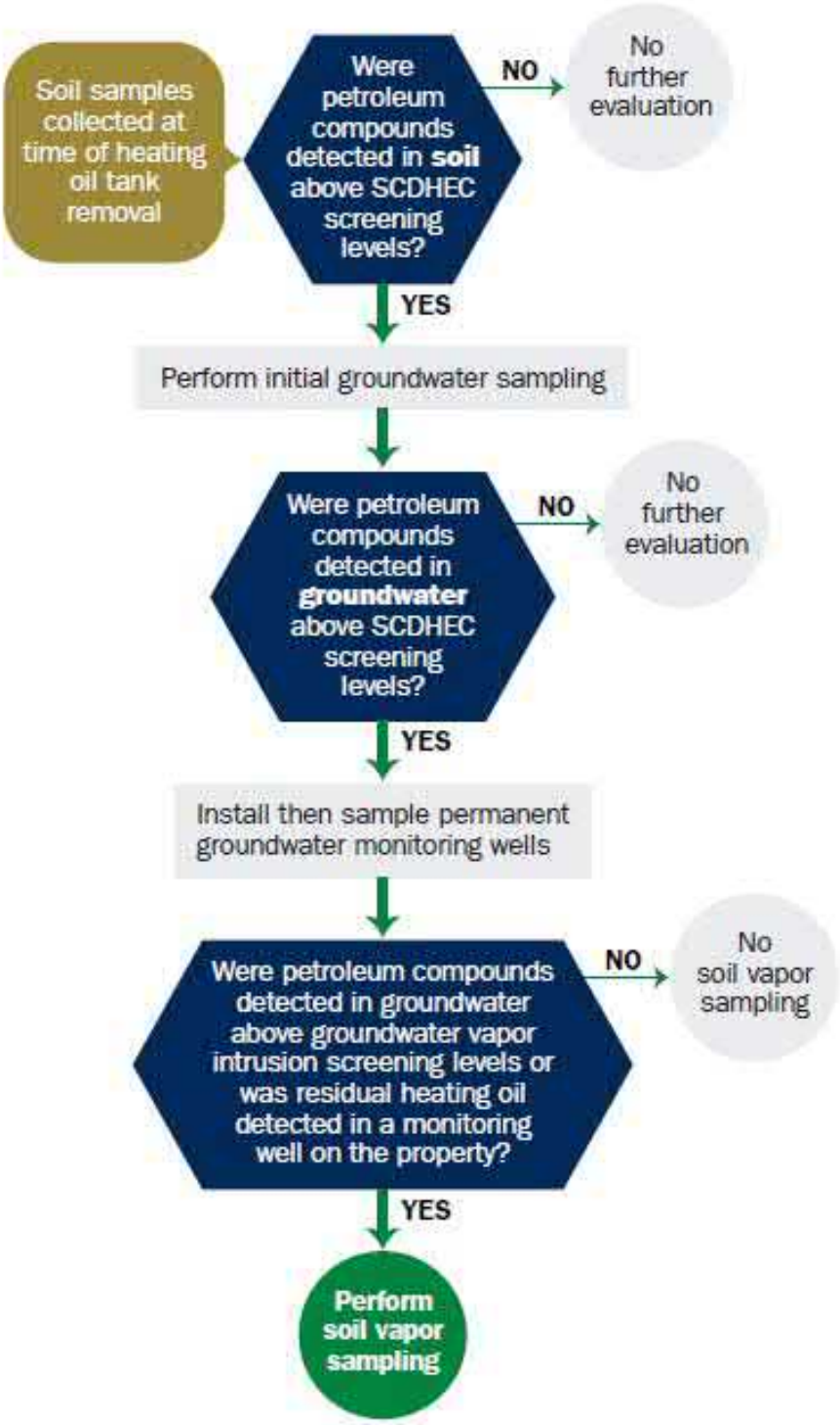
ND - not detected at the reporting limit (or method detection limit if shown on the laboratory report). The laboratory report is provided in Appendix B.

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

Appendix A
Multi-Media Selection Process for LBMH

CDM - AECOM
Multimedia Joint Venture



Appendix A - Multi-Media Selection Process for LBMH

Appendix B
UST Assessment Report

CDM - AECOM
Multimedia Joint Venture

Recd 9/30/11

Attachment 1

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

1358 Cardinal Lane, Laurel Bay Military Housing Area
Street Address or State Road (as applicable)

Beaufort,	Beaufort
City	County

Attachment 2

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).....	1358 Cardinal	
B.	Capacity..(ex. 1k, 2k).....	Heating oil	
C.	Age.....	280 gal	
D.	Construction Material..(ex. Steel, FRP).....	Late 1950s	
E.	Month/Year of Last Use.....	Steel	
F.	Depth (ft.) To Base of Tank.....	Mid 80s	
G.	Spill Prevention Equipment Y/N.....	6'4"	
H.	Overfill Prevention Equipment Y/N.....	No	
I.	Method of Closure Removed/Filled.....	No	
J.	Date Tanks Removed/Filled.....	Removed	
K.	Visible Corrosion or Pitting Y/N.....	4/13/11	
L.	Visible Holes Y/N.....	Yes	
		Yes	

M. Method of disposal for any USTs removed from the ground (attach disposal manifests)
UST 1358Cardinal 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 1358Cardinal was 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).....	1358 Cardinal	
B.	Distance from UST to Dispenser.....	Steel & Copper	
C.	Number of Dispensers.....	N/A	
D.	Type of System Pressure or Suction.....	N/A	
E.	Was Piping Removed from the Ground? Y/N	Suction	
F.	Visible Corrosion or Pitting Y/N.....	Yes	
G.	Visible Holes Y/N.....	Yes	
H.	Age.....	No	
		Late 1950s	

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

Steel vent piping was corroded and pitted. Copper supply and return piping was sound.

VIII. BRIEF SITE DESCRIPTION AND HISTORY

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

IX. SITE CONDITIONS

	Yes	No	Unk
A. Were any petroleum-stained or contaminated soils found in the UST excavation, soil borings, trenches, or monitoring wells? If yes, indicate depth and location on the site map.		X	
B. Were any petroleum odors detected in the excavation, soil borings, trenches, or monitoring wells? If yes, indicate location on site map and describe the odor (strong, 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 84009

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
1358 Card	Excav at fill end	Soil	Sandy	6'4"	4/13/11 1215 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.

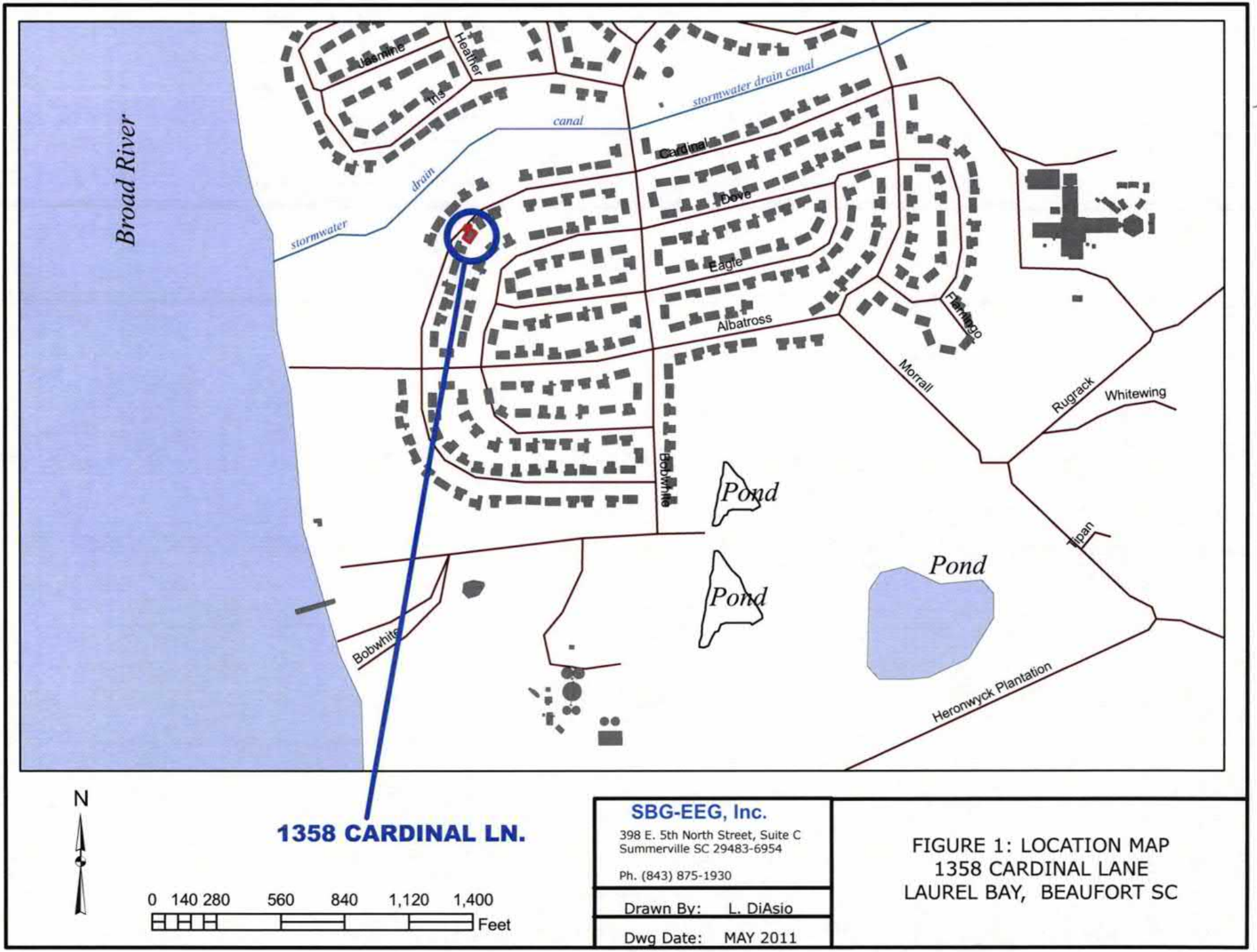
XII. RECEPTORS

	Yes	No
A. Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system? *~270' stormwater drainage canal and ~900' Broad R. 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, electricity cable & fiber optic 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 <u>scaled</u> site map. It should include all buildings, road names, utilities, tank and dispenser island locations, labeled sample locations, extent of excavation, and any other pertinent information.

(Attach Site Map Here)

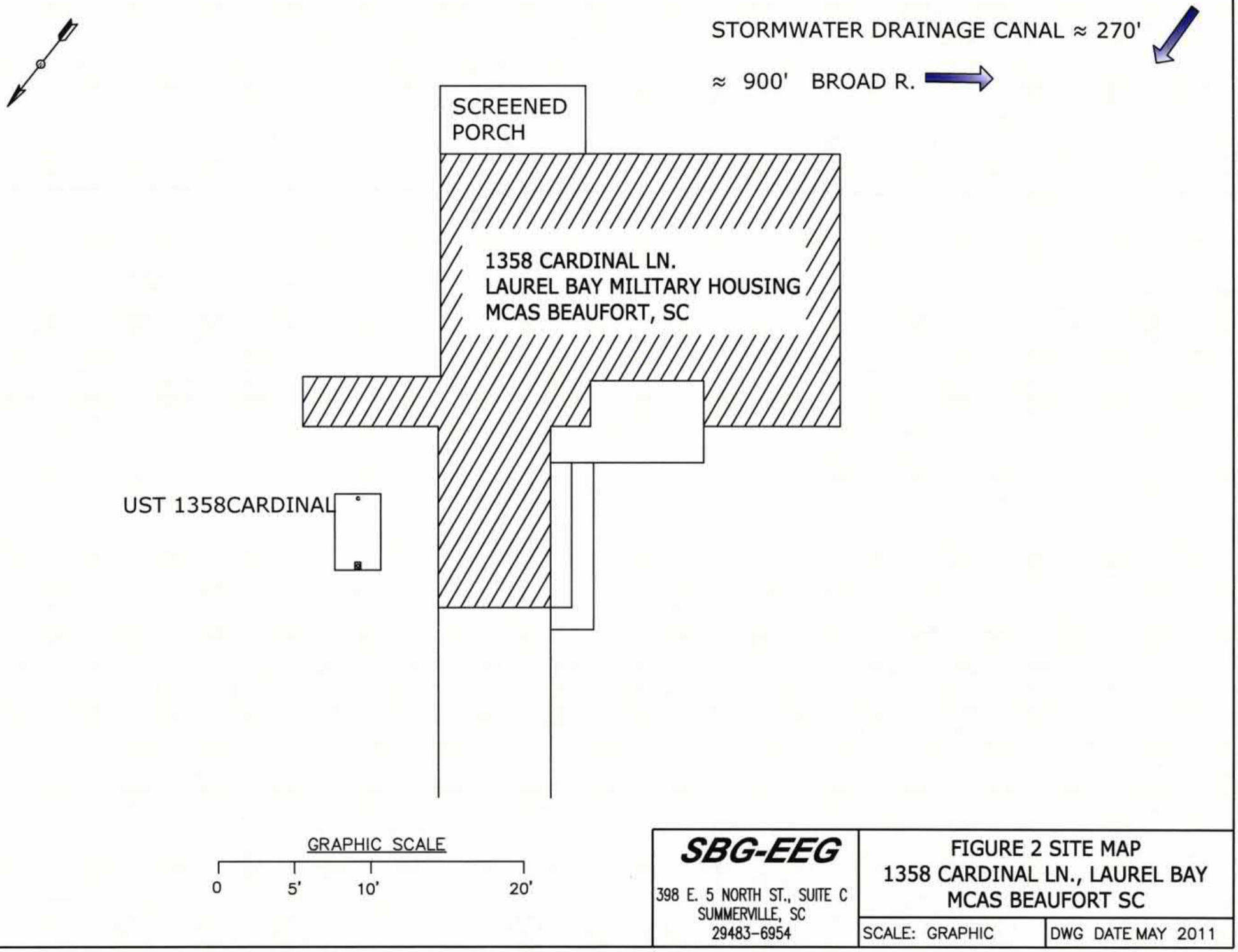


SBG-EEG, Inc.
398 E. 5th North Street, Suite C
Summerville SC 29483-6954
Ph. (843) 875-1930

Drawn By: L. DiAsio

Dwg Date: MAY 2011

FIGURE 1: LOCATION MAP
1358 CARDINAL LANE
LAUREL BAY, BEAUFORT SC

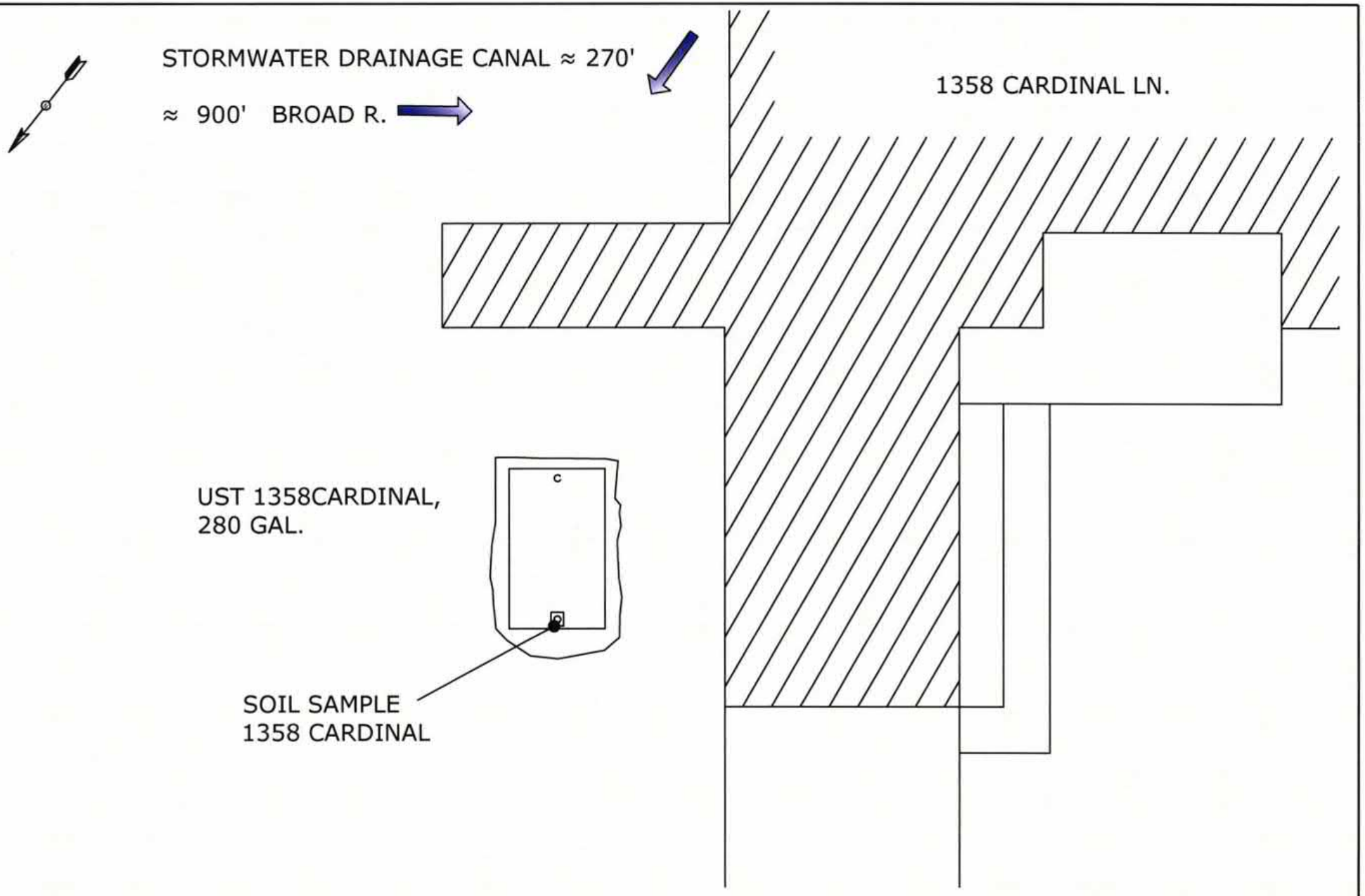


SBG-EEG

398 E. 5 NORTH ST., SUITE C
SUMMERVILLE, SC
29483-6954

FIGURE 2 SITE MAP
1358 CARDINAL LN., LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC | DWG DATE MAY 2011



GRAPHIC SCALE
0 5'

TANK DEPTH BELOW GRADE
1358CARDINAL = 40"

SBG-EEG
398 E. 5 NORTH ST., SUITE C
SUMMERVILLE, SC
29483-6954

FIGURE 3 UST SAMPLE LOCATIONS
1358 CARDINAL LN., LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC | DWG DATE MAY 2011

Picture 1: Location of UST 1358Cardinal.

Picture 2: UST 1358Cardinal.

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	1358Cardinal					
Benzene	ND					
Toluene	0.000930 mg/kg					
Ethylbenzene	ND					
Xylenes	ND					
Naphthalene	0.00951 mg/kg					
Benzo (a) anthracene	ND					
Benzo (b) fluoranthene	ND					
Benzo (k) fluoranthene	ND					
Chrysene	ND					
Dibenz (a, h) anthracene	ND					
TPH (EPA 3550)						

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

SUMMARY OF ANALYSIS RESULTS (cont'd)

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

CoC	RBSL (µg/l)	W-1	W-2	W -3	W -4
Free Product Thickness	None				
Benzene	5				
Toluene	1,000				
Ethylbenzene	700				
Xylenes	10,000				
Total BTEX	N/A				
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)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

May 02, 2011 12:22:56PM

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

Work Order: NUD2768
Project Name: Laurel Bay Housing Project
Project Nbr: [none]
P/O Nbr: 1027
Date Received: 04/16/11

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
1364 Cardinal-2	NUD2768-01	04/11/11 10:30
1430 Dove	NUD2768-02	04/12/11 11:30
1358 Cardinal	NUD2768-03	04/13/11 12:15
1444-Dove-1	NUD2768-04	04/14/11 12:00
1444-Dove-2	NUD2768-05	04/14/11 14:45

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.

South Carolina Certification Number: 84009

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

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:

Roxanne L. Connor

Roxanne Connor

Program Manager - Conventional Accounts

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

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUD2768-01 (1364 Cardinal-2 - Soil) Sampled: 04/11/11 10:30										
General Chemistry Parameters										
% Dry Solids	**90.3**		%	0.500	0.500	1	04/25/11 15:07	SW-846	JJR	11D5574
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00129	0.00235	1	04/22/11 17:42	SW846 8260B	MJH	11D4866
Ethylbenzene	ND	RL1	mg/kg dry	0.0601	0.123	50	04/22/11 18:13	SW846 8260B	MJH	11D4866
Naphthalene	**0.0153**		mg/kg dry	0.00200	0.00588	1	04/22/11 17:42	SW846 8260B	MJH	11D4866
Toluene	ND	RL1	mg/kg dry	0.0546	0.123	50	04/22/11 18:13	SW846 8260B	MJH	11D4866
Xylenes, total	ND	RL1	mg/kg dry	0.117	0.307	50	04/22/11 18:13	SW846 8260B	MJH	11D4866
Surr: 1,2-Dichloroethane-d4 (67-138%)	*96 %*					*1*	*04/22/11 17:42*	*SW846 8260B*	*MJH*	*11D4866*
Surr: 1,2-Dichloroethane-d4 (67-138%)	*77 %*					*50*	*04/22/11 18:13*	*SW846 8260B*	*MJH*	*11D4866*
Surr: Dibromofluoromethane (75-125%)	*91 %*					*1*	*04/22/11 17:42*	*SW846 8260B*	*MJH*	*11D4866*
Surr: Dibromofluoromethane (75-125%)	*69 %*	*ZX*				*50*	*04/22/11 18:13*	*SW846 8260B*	*MJH*	*11D4866*
Surr: Toluene-d8 (76-129%)	*132 %*	*ZX*				*1*	*04/22/11 17:42*	*SW846 8260B*	*MJH*	*11D4866*
Surr: Toluene-d8 (76-129%)	*106 %*					*50*	*04/22/11 18:13*	*SW846 8260B*	*MJH*	*11D4866*
Surr: 4-Bromofluorobenzene (67-147%)	*62 %*	*ZX*				*1*	*04/22/11 17:42*	*SW846 8260B*	*MJH*	*11D4866*
Surr: 4-Bromofluorobenzene (67-147%)	*125 %*					*50*	*04/22/11 18:13*	*SW846 8260B*	*MJH*	*11D4866*
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.151	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
Acenaphthylene	ND		mg/kg dry	0.215	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
Anthracene	ND		mg/kg dry	0.0968	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
Benzo (a) anthracene	ND		mg/kg dry	0.118	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
Benzo (a) pyrene	ND		mg/kg dry	0.0860	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
Benzo (b) fluoranthene	ND		mg/kg dry	0.409	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0968	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
Benzo (k) fluoranthene	ND		mg/kg dry	0.398	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
Chrysene	ND		mg/kg dry	0.333	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
Dibenz (a,h) anthracene	ND		mg/kg dry	0.161	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
Fluoranthene	ND		mg/kg dry	0.118	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
Fluorene	ND		mg/kg dry	0.215	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.333	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
Naphthalene	ND		mg/kg dry	0.151	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
Phenanthrene	ND		mg/kg dry	0.108	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
Pyrene	**1.57**		mg/kg dry	0.247	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
1-Methylnaphthalene	ND		mg/kg dry	0.129	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
2-Methylnaphthalene	ND		mg/kg dry	0.226	0.720	5	04/19/11 22:29	SW846 8270D	BES	11D4497
Surr: Terphenyl-d14 (18-120%)	*61 %*					*5*	*04/19/11 22:29*	*SW846 8270D*	*BES*	*11D4497*
Surr: 2-Fluorobiphenyl (14-120%)	*88 %*					*5*	*04/19/11 22:29*	*SW846 8270D*	*BES*	*11D4497*
Surr: Nitrobenzene-d5 (17-120%)	*82 %*					*5*	*04/19/11 22:29*	*SW846 8270D*	*BES*	*11D4497*

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

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUD2768-02 (1430 Dove - Soil) Sampled: 04/12/11 11:30										
General Chemistry Parameters										
% Dry Solids	**85.6**		%	0.500	0.500	1	04/25/11 15:07	SW-846	JJR	11D5574
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00119	0.00216	1	04/21/11 18:26	SW846 8260B	MJH	11D4465
Ethylbenzene	**0.655**		mg/kg dry	0.0514	0.105	50	04/22/11 18:43	SW846 8260B	MJH	11D4866
Naphthalene	**5.01**		mg/kg dry	0.0891	0.262	50	04/22/11 18:43	SW846 8260B	MJH	11D4866
Toluene	**0.00104**	J	mg/kg dry	0.000961	0.00216	1	04/21/11 18:26	SW846 8260B	MJH	11D4465
Xylenes, total	**1.39**		mg/kg dry	0.0996	0.262	50	04/22/11 18:43	SW846 8260B	MJH	11D4866
Surr: 1,2-Dichloroethane-d4 (67-138%)	*78 %*					*1*	*04/21/11 18:26*	*SW846 8260B*	*MJH*	*11D4465*
Surr: 1,2-Dichloroethane-d4 (67-138%)	*77 %*					*50*	*04/22/11 18:43*	*SW846 8260B*	*MJH*	*11D4866*
Surr: Dibromofluoromethane (75-125%)	*77 %*					*1*	*04/21/11 18:26*	*SW846 8260B*	*MJH*	*11D4465*
Surr: Dibromofluoromethane (75-125%)	*74 %*	*ZX*				*50*	*04/22/11 18:43*	*SW846 8260B*	*MJH*	*11D4866*
Surr: Toluene-d8 (76-129%)	*155 %*	*ZX*				*1*	*04/21/11 18:26*	*SW846 8260B*	*MJH*	*11D4465*
Surr: Toluene-d8 (76-129%)	*108 %*					*50*	*04/22/11 18:43*	*SW846 8260B*	*MJH*	*11D4866*
Surr: 4-Bromofluorobenzene (67-147%)	*312 %*	*ZX*				*1*	*04/21/11 18:26*	*SW846 8260B*	*MJH*	*11D4465*
Surr: 4-Bromofluorobenzene (67-147%)	*128 %*					*50*	*04/22/11 18:43*	*SW846 8260B*	*MJH*	*11D4866*
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	**0.586**		mg/kg dry	0.0158	0.0759	1	04/19/11 22:50	SW846 8270D	BES	11D4497
Acenaphthylene	**0.235**		mg/kg dry	0.0226	0.0759	1	04/19/11 22:50	SW846 8270D	BES	11D4497
Anthracene	**0.443**		mg/kg dry	0.0102	0.0759	1	04/19/11 22:50	SW846 8270D	BES	11D4497
Benzo (a) anthracene	**0.692**		mg/kg dry	0.0125	0.0759	1	04/19/11 22:50	SW846 8270D	BES	11D4497
Benzo (a) pyrene	**0.242**		mg/kg dry	0.00906	0.0759	1	04/19/11 22:50	SW846 8270D	BES	11D4497
Benzo (b) fluoranthene	**0.354**		mg/kg dry	0.0430	0.0759	1	04/19/11 22:50	SW846 8270D	BES	11D4497
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0102	0.0759	1	04/19/11 22:50	SW846 8270D	BES	11D4497
Benzo (k) fluoranthene	**0.274**		mg/kg dry	0.0419	0.0759	1	04/19/11 22:50	SW846 8270D	BES	11D4497
Chrysene	**0.583**		mg/kg dry	0.0351	0.0759	1	04/19/11 22:50	SW846 8270D	BES	11D4497
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0170	0.0759	1	04/19/11 22:50	SW846 8270D	BES	11D4497
Fluoranthene	**1.92**		mg/kg dry	0.0125	0.0759	1	04/19/11 22:50	SW846 8270D	BES	11D4497
Fluorene	**1.31**		mg/kg dry	0.0226	0.0759	1	04/19/11 22:50	SW846 8270D	BES	11D4497
Indeno (1,2,3-cd) pyrene	**0.0653**	J	mg/kg dry	0.0351	0.0759	1	04/19/11 22:50	SW846 8270D	BES	11D4497
Naphthalene	**1.85**		mg/kg dry	0.0158	0.0759	1	04/19/11 22:50	SW846 8270D	BES	11D4497
Phenanthrene	**2.79**		mg/kg dry	0.0113	0.0759	1	04/19/11 22:50	SW846 8270D	BES	11D4497
Pyrene	**1.32**		mg/kg dry	0.0260	0.0759	1	04/19/11 22:50	SW846 8270D	BES	11D4497
1-Methylnaphthalene	**7.79**		mg/kg dry	0.0679	0.379	5	04/20/11 19:18	SW846 8270D	BES	11D4497
2-Methylnaphthalene	**12.6**		mg/kg dry	0.119	0.379	5	04/20/11 19:18	SW846 8270D	BES	11D4497
Surr: Terphenyl-d14 (18-120%)	*69 %*					*1*	*04/19/11 22:50*	*SW846 8270D*	*BES*	*11D4497*
Surr: 2-Fluorobiphenyl (14-120%)	*73 %*					*1*	*04/19/11 22:50*	*SW846 8270D*	*BES*	*11D4497*
Surr: Nitrobenzene-d5 (17-120%)	*74 %*					*1*	*04/19/11 22:50*	*SW846 8270D*	*BES*	*11D4497*

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUD2768-03 (1358 Cardinal - Soil) Sampled: 04/13/11 12:15										
General Chemistry Parameters										
% Dry Solids	**85.1**		%	0.500	0.500	1	04/25/11 15:07	SW-846	JJR	11D5574
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00115	0.00209	1	04/22/11 16:09	SW846 8260B	MJH	11D4866
Ethylbenzene	ND		mg/kg dry	0.00102	0.00209	1	04/22/11 16:09	SW846 8260B	MJH	11D4866
Naphthalene	**0.00951**	CF7	mg/kg dry	0.00195	0.00572	1	04/21/11 18:56	SW846 8260B	MJH	11D4465
Toluene	**0.000930**	J	mg/kg dry	0.000930	0.00209	1	04/22/11 16:09	SW846 8260B	MJH	11D4866
Xylenes, total	ND		mg/kg dry	0.00199	0.00522	1	04/22/11 16:09	SW846 8260B	MJH	11D4866
Surr: 1,2-Dichloroethane-d4 (67-138%)	*96 %*					*1*	*04/21/11 18:56*	*SW846 8260B*	*MJH*	*11D4465*
Surr: 1,2-Dichloroethane-d4 (67-138%)	*87 %*					*1*	*04/22/11 16:09*	*SW846 8260B*	*MJH*	*11D4866*
Surr: Dibromofluoromethane (75-125%)	*95 %*					*1*	*04/21/11 18:56*	*SW846 8260B*	*MJH*	*11D4465*
Surr: Dibromofluoromethane (75-125%)	*87 %*					*1*	*04/22/11 16:09*	*SW846 8260B*	*MJH*	*11D4866*
Surr: Toluene-d8 (76-129%)	*105 %*					*1*	*04/21/11 18:56*	*SW846 8260B*	*MJH*	*11D4465*
Surr: Toluene-d8 (76-129%)	*108 %*					*1*	*04/22/11 16:09*	*SW846 8260B*	*MJH*	*11D4866*
Surr: 4-Bromofluorobenzene (67-147%)	*127 %*					*1*	*04/21/11 18:56*	*SW846 8260B*	*MJH*	*11D4465*
Surr: 4-Bromofluorobenzene (67-147%)	*158 %*	*ZX*				*1*	*04/22/11 16:09*	*SW846 8260B*	*MJH*	*11D4866*
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0162	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
Acenaphthylene	ND		mg/kg dry	0.0232	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
Anthracene	ND		mg/kg dry	0.0104	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
Benzo (a) anthracene	ND		mg/kg dry	0.0127	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
Benzo (a) pyrene	**0.106**		mg/kg dry	0.00926	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
Benzo (b) fluoranthene	ND		mg/kg dry	0.0440	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
Benzo (g,h,i) perylene	**0.127**		mg/kg dry	0.0104	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
Benzo (k) fluoranthene	ND		mg/kg dry	0.0428	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
Chrysene	ND		mg/kg dry	0.0359	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0174	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
Fluoranthene	ND		mg/kg dry	0.0127	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
Fluorene	ND		mg/kg dry	0.0232	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
Indeno (1,2,3-cd) pyrene	**0.0930**		mg/kg dry	0.0359	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
Naphthalene	ND		mg/kg dry	0.0162	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
Phenanthrene	ND		mg/kg dry	0.0116	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
Pyrene	ND		mg/kg dry	0.0266	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
1-Methylnaphthalene	ND		mg/kg dry	0.0139	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
2-Methylnaphthalene	ND		mg/kg dry	0.0243	0.0776	1	04/19/11 23:11	SW846 8270D	BES	11D4497
Surr: Terphenyl-d14 (18-120%)	*69 %*					*1*	*04/19/11 23:11*	*SW846 8270D*	*BES*	*11D4497*
Surr: 2-Fluorobiphenyl (14-120%)	*68 %*					*1*	*04/19/11 23:11*	*SW846 8270D*	*BES*	*11D4497*
Surr: Nitrobenzene-d5 (17-120%)	*82 %*					*1*	*04/19/11 23:11*	*SW846 8270D*	*BES*	*11D4497*

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

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUD2768-04 (1444-Dove-1 - Soil) Sampled: 04/14/11 12:00										
General Chemistry Parameters										
% Dry Solids	**79.8**		%	0.500	0.500	1	04/25/11 15:07	SW-846	JJR	11D5574
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00125	0.00227	1	04/21/11 19:27	SW846 8260B	MJH	11D4465
Ethylbenzene	ND		mg/kg dry	0.00111	0.00227	1	04/21/11 19:27	SW846 8260B	MJH	11D4465
Naphthalene	**0.00918**		mg/kg dry	0.00193	0.00568	1	04/21/11 19:27	SW846 8260B	MJH	11D4465
Toluene	ND		mg/kg dry	0.00101	0.00227	1	04/21/11 19:27	SW846 8260B	MJH	11D4465
Xylenes, total	ND		mg/kg dry	0.00216	0.00568	1	04/21/11 19:27	SW846 8260B	MJH	11D4465
Surr: 1,2-Dichloroethane-d4 (67-138%)	*84 %*					*1*	*04/21/11 19:27*	*SW846 8260B*	*MJH*	*11D4465*
Surr: Dibromofluoromethane (75-125%)	*84 %*					*1*	*04/21/11 19:27*	*SW846 8260B*	*MJH*	*11D4465*
Surr: Toluene-d8 (76-129%)	*109 %*					*1*	*04/21/11 19:27*	*SW846 8260B*	*MJH*	*11D4465*
Surr: 4-Bromofluorobenzene (67-147%)	*130 %*					*1*	*04/21/11 19:27*	*SW846 8260B*	*MJH*	*11D4465*
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	**0.0832**		mg/kg dry	0.0173	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
Acenaphthylene	ND		mg/kg dry	0.0247	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
Anthracene	ND		mg/kg dry	0.0111	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
Benzo (a) anthracene	**0.336**		mg/kg dry	0.0136	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
Benzo (a) pyrene	**0.309**		mg/kg dry	0.00989	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
Benzo (b) fluoranthene	**0.660**		mg/kg dry	0.0470	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
Benzo (g,h,i) perylene	**0.119**		mg/kg dry	0.0111	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
Benzo (k) fluoranthene	**0.440**		mg/kg dry	0.0457	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
Chrysene	**0.456**		mg/kg dry	0.0383	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
Dibenz (a,h) anthracene	**0.0840**		mg/kg dry	0.0185	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
Fluoranthene	**0.451**		mg/kg dry	0.0136	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
Fluorene	**0.0783**	J	mg/kg dry	0.0247	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
Indeno (1,2,3-cd) pyrene	**0.145**		mg/kg dry	0.0383	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
Naphthalene	ND		mg/kg dry	0.0173	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
Phenanthrene	**0.131**		mg/kg dry	0.0124	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
Pyrene	**1.21**		mg/kg dry	0.0284	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
1-Methylnaphthalene	**0.117**		mg/kg dry	0.0148	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
2-Methylnaphthalene	**0.132**		mg/kg dry	0.0259	0.0828	1	04/19/11 23:33	SW846 8270D	BES	11D4497
Surr: Terphenyl-d14 (18-120%)	*65 %*					*1*	*04/19/11 23:33*	*SW846 8270D*	*BES*	*11D4497*
Surr: 2-Fluorobiphenyl (14-120%)	*60 %*					*1*	*04/19/11 23:33*	*SW846 8270D*	*BES*	*11D4497*
Surr: Nitrobenzene-d5 (17-120%)	*70 %*					*1*	*04/19/11 23:33*	*SW846 8270D*	*BES*	*11D4497*

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

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUD2768-05 (1444-Dove-2 - Soil) Sampled: 04/14/11 14:45										
General Chemistry Parameters										
% Dry Solids	**82.3**		%	0.500	0.500	1	04/25/11 15:07	SW-846	JJR	11D5574
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00130	0.00236	1	04/21/11 19:58	SW846 8260B	MJH	11D4465
Ethylbenzene	ND		mg/kg dry	0.00116	0.00236	1	04/21/11 19:58	SW846 8260B	MJH	11D4465
Naphthalene	**0.00566**	J	mg/kg dry	0.00201	0.00591	1	04/21/11 19:58	SW846 8260B	MJH	11D4465
Toluene	ND		mg/kg dry	0.00105	0.00236	1	04/21/11 19:58	SW846 8260B	MJH	11D4465
Xylenes, total	ND		mg/kg dry	0.00225	0.00591	1	04/21/11 19:58	SW846 8260B	MJH	11D4465
Surr: 1,2-Dichloroethane-d4 (67-138%)	*78 %*					*1*	*04/21/11 19:58*	*SW846 8260B*	*MJH*	*11D4465*
Surr: Dibromofluoromethane (75-125%)	*78 %*					*1*	*04/21/11 19:58*	*SW846 8260B*	*MJH*	*11D4465*
Surr: Toluene-d8 (76-129%)	*105 %*					*1*	*04/21/11 19:58*	*SW846 8260B*	*MJH*	*11D4465*
Surr: 4-Bromofluorobenzene (67-147%)	*124 %*					*1*	*04/21/11 19:58*	*SW846 8260B*	*MJH*	*11D4465*
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0165	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
Acenaphthylene	ND		mg/kg dry	0.0235	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
Anthracene	ND		mg/kg dry	0.0106	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
Benzo (a) anthracene	ND		mg/kg dry	0.0129	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
Benzo (a) pyrene	ND		mg/kg dry	0.00941	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
Benzo (b) fluoranthene	ND		mg/kg dry	0.0447	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0106	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
Benzo (k) fluoranthene	ND		mg/kg dry	0.0435	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
Chrysene	ND		mg/kg dry	0.0365	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0177	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
Fluoranthene	ND		mg/kg dry	0.0129	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
Fluorene	ND		mg/kg dry	0.0235	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0365	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
Naphthalene	ND		mg/kg dry	0.0165	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
Phenanthrene	ND		mg/kg dry	0.0118	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
Pyrene	ND		mg/kg dry	0.0271	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
1-Methylnaphthalene	ND		mg/kg dry	0.0141	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
2-Methylnaphthalene	ND		mg/kg dry	0.0247	0.0788	1	04/20/11 19:40	SW846 8270D	BES	11D4497
Surr: Terphenyl-d14 (18-120%)	*66 %*					*1*	*04/20/11 19:40*	*SW846 8270D*	*BES*	*11D4497*
Surr: 2-Fluorobiphenyl (14-120%)	*52 %*					*1*	*04/20/11 19:40*	*SW846 8270D*	*BES*	*11D4497*
Surr: Nitrobenzene-d5 (17-120%)	*58 %*					*1*	*04/20/11 19:40*	*SW846 8270D*	*BES*	*11D4497*

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

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extract Vol	Date	Analyst	Extraction Method
Polyaromatic Hydrocarbons by EPA 8270D							
SW846 8270D	11D4497	NUD2768-01	30.89	2.00	04/19/11 08:30	SAS	EPA 3550C
SW846 8270D	11D4497	NUD2768-02	30.96	1.00	04/19/11 08:30	SAS	EPA 3550C
SW846 8270D	11D4497	NUD2768-02RE1	30.96	1.00	04/19/11 08:30	SAS	EPA 3550C
SW846 8270D	11D4497	NUD2768-03	30.44	1.00	04/19/11 08:30	SAS	EPA 3550C
SW846 8270D	11D4497	NUD2768-04	30.44	1.00	04/19/11 08:30	SAS	EPA 3550C
SW846 8270D	11D4497	NUD2768-05	30.97	1.00	04/19/11 08:30	SAS	EPA 3550C
Volatile Organic Compounds by EPA Method 8260B							
SW846 8260B	11D4465	NUD2768-01	4.88	5.00	04/11/11 10:30	TSP	EPA 5035
SW846 8260B	11D4866	NUD2768-01RE1	4.71	5.00	04/11/11 10:30	TSP	EPA 5035
SW846 8260B	11D4866	NUD2768-01RE2	4.51	5.00	04/11/11 10:30	TSP	EPA 5035
SW846 8260B	11D4465	NUD2768-02	5.41	5.00	04/12/11 11:30	TSP	EPA 5035
SW846 8260B	11D4866	NUD2768-02RE1	5.57	5.00	04/12/11 11:30	TSP	EPA 5035
SW846 8260B	11D4465	NUD2768-03	5.13	5.00	04/13/11 12:15	TSP	EPA 5035
SW846 8260B	11D4866	NUD2768-03RE1	5.62	5.00	04/13/11 12:15	TSP	EPA 5035
SW846 8260B	11D4465	NUD2768-04	5.52	5.00	04/14/11 12:00	TSP	EPA 5035
SW846 8260B	11D4465	NUD2768-05	5.14	5.00	04/14/11 14:45	TSP	EPA 5035

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

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

PROJECT QUALITY CONTROL DATA
Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
11D4465-BLK1						
Benzene	<0.00110		mg/kg wet	11D4465	11D4465-BLK1	04/21/11 13:49
Ethylbenzene	<0.000980		mg/kg wet	11D4465	11D4465-BLK1	04/21/11 13:49
Naphthalene	<0.00170		mg/kg wet	11D4465	11D4465-BLK1	04/21/11 13:49
Toluene	<0.000890		mg/kg wet	11D4465	11D4465-BLK1	04/21/11 13:49
Xylenes, total	<0.00190		mg/kg wet	11D4465	11D4465-BLK1	04/21/11 13:49
Surrogate: 1,2-Dichloroethane-d4	94%			11D4465	11D4465-BLK1	04/21/11 13:49
Surrogate: Dibromofluoromethane	91%			11D4465	11D4465-BLK1	04/21/11 13:49
Surrogate: Toluene-d8	102%			11D4465	11D4465-BLK1	04/21/11 13:49
Surrogate: 4-Bromofluorobenzene	115%			11D4465	11D4465-BLK1	04/21/11 13:49
11D4465-BLK2						
Benzene	<0.0550		mg/kg wet	11D4465	11D4465-BLK2	04/21/11 14:20
Ethylbenzene	<0.0490		mg/kg wet	11D4465	11D4465-BLK2	04/21/11 14:20
Naphthalene	<0.0850		mg/kg wet	11D4465	11D4465-BLK2	04/21/11 14:20
Toluene	<0.0445		mg/kg wet	11D4465	11D4465-BLK2	04/21/11 14:20
Xylenes, total	<0.0950		mg/kg wet	11D4465	11D4465-BLK2	04/21/11 14:20
Surrogate: 1,2-Dichloroethane-d4	83%			11D4465	11D4465-BLK2	04/21/11 14:20
Surrogate: Dibromofluoromethane	78%			11D4465	11D4465-BLK2	04/21/11 14:20
Surrogate: Toluene-d8	103%			11D4465	11D4465-BLK2	04/21/11 14:20
Surrogate: 4-Bromofluorobenzene	109%			11D4465	11D4465-BLK2	04/21/11 14:20
11D4866-BLK1						
Benzene	<0.00110		mg/kg wet	11D4866	11D4866-BLK1	04/22/11 14:06
Ethylbenzene	<0.000980		mg/kg wet	11D4866	11D4866-BLK1	04/22/11 14:06
Naphthalene	<0.00170		mg/kg wet	11D4866	11D4866-BLK1	04/22/11 14:06
Toluene	<0.000890		mg/kg wet	11D4866	11D4866-BLK1	04/22/11 14:06
Xylenes, total	<0.00190		mg/kg wet	11D4866	11D4866-BLK1	04/22/11 14:06
Surrogate: 1,2-Dichloroethane-d4	102%			11D4866	11D4866-BLK1	04/22/11 14:06
Surrogate: Dibromofluoromethane	99%			11D4866	11D4866-BLK1	04/22/11 14:06
Surrogate: Toluene-d8	103%			11D4866	11D4866-BLK1	04/22/11 14:06
Surrogate: 4-Bromofluorobenzene	149%	Z2		11D4866	11D4866-BLK1	04/22/11 14:06
11D4866-BLK2						
Benzene	<0.0550		mg/kg wet	11D4866	11D4866-BLK2	04/22/11 14:36
Ethylbenzene	<0.0490		mg/kg wet	11D4866	11D4866-BLK2	04/22/11 14:36
Naphthalene	<0.0850		mg/kg wet	11D4866	11D4866-BLK2	04/22/11 14:36
Toluene	<0.0445		mg/kg wet	11D4866	11D4866-BLK2	04/22/11 14:36
Xylenes, total	<0.0950		mg/kg wet	11D4866	11D4866-BLK2	04/22/11 14:36
Surrogate: 1,2-Dichloroethane-d4	93%			11D4866	11D4866-BLK2	04/22/11 14:36
Surrogate: Dibromofluoromethane	86%			11D4866	11D4866-BLK2	04/22/11 14:36
Surrogate: Toluene-d8	104%			11D4866	11D4866-BLK2	04/22/11 14:36
Surrogate: 4-Bromofluorobenzene	150%	Z2		11D4866	11D4866-BLK2	04/22/11 14:36

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

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
Polyaromatic Hydrocarbons by EPA 8270D						
11D4497-BLK1						
Acenaphthene	<0.0140		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
Acenaphthylene	<0.0200		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
Anthracene	<0.00900		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
Benzo (a) anthracene	<0.0110		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
Benzo (a) pyrene	<0.00800		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
Benzo (b) fluoranthene	<0.0380		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
Benzo (g,h,i) perylene	<0.00900		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
Benzo (k) fluoranthene	<0.0370		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
Chrysene	<0.0310		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
Dibenz (a,h) anthracene	<0.0150		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
Fluoranthene	<0.0110		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
Fluorene	<0.0200		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
Indeno (1,2,3-cd) pyrene	<0.0310		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
Naphthalene	<0.0140		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
Phenanthrene	<0.0100		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
Pyrene	<0.0230		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
1-Methylnaphthalene	<0.0120		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
2-Methylnaphthalene	<0.0210		mg/kg wet	11D4497	11D4497-BLK1	04/19/11 20:21
Surrogate: Terphenyl-d14	78%			11D4497	11D4497-BLK1	04/19/11 20:21
Surrogate: 2-Fluorobiphenyl	66%			11D4497	11D4497-BLK1	04/19/11 20:21
Surrogate: Nitrobenzene-d5	78%			11D4497	11D4497-BLK1	04/19/11 20:21

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

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

PROJECT QUALITY CONTROL DATA
Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	% Rec.	Analyzed Date/Time
General Chemistry Parameters										
11D5574-DUP1										
% Dry Solids	90.3	91.2		%	1	20	11D5574	NUD2768-01		04/25/11 15:07

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

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
11D4465-BS1								
Benzene	50.0	55.7		ug/kg	111%	78 - 126	11D4465	04/21/11 12:17
Ethylbenzene	50.0	60.6		ug/kg	121%	79 - 130	11D4465	04/21/11 12:17
Naphthalene	50.0	58.0		ug/kg	116%	72 - 150	11D4465	04/21/11 12:17
Toluene	50.0	60.2		ug/kg	120%	76 - 126	11D4465	04/21/11 12:17
Xylenes, total	150	188		ug/kg	126%	80 - 130	11D4465	04/21/11 12:17
Surrogate: 1,2-Dichloroethane-d4	50.0	50.6			101%	67 - 138	11D4465	04/21/11 12:17
Surrogate: Dibromofluoromethane	50.0	48.9			98%	75 - 125	11D4465	04/21/11 12:17
Surrogate: Toluene-d8	50.0	51.0			102%	76 - 129	11D4465	04/21/11 12:17
Surrogate: 4-Bromofluorobenzene	50.0	51.1			102%	67 - 147	11D4465	04/21/11 12:17
11D4866-BS1								
Benzene	50.0	46.7		ug/kg	93%	78 - 126	11D4866	04/22/11 12:33
Ethylbenzene	50.0	60.2		ug/kg	120%	79 - 130	11D4866	04/22/11 12:33
Naphthalene	50.0	55.5		ug/kg	111%	72 - 150	11D4866	04/22/11 12:33
Toluene	50.0	58.8		ug/kg	118%	76 - 126	11D4866	04/22/11 12:33
Xylenes, total	150	186		ug/kg	124%	80 - 130	11D4866	04/22/11 12:33
Surrogate: 1,2-Dichloroethane-d4	50.0	42.0			84%	67 - 138	11D4866	04/22/11 12:33
Surrogate: Dibromofluoromethane	50.0	41.6			83%	75 - 125	11D4866	04/22/11 12:33
Surrogate: Toluene-d8	50.0	52.8			106%	76 - 129	11D4866	04/22/11 12:33
Surrogate: 4-Bromofluorobenzene	50.0	58.1			116%	67 - 147	11D4866	04/22/11 12:33
Polyaromatic Hydrocarbons by EPA 8270D								
11D4497-BS1								
Acenaphthene	1.67	1.30		mg/kg wet	78%	49 - 120	11D4497	04/19/11 20:42
Acenaphthylene	1.67	1.33		mg/kg wet	80%	52 - 120	11D4497	04/19/11 20:42
Anthracene	1.67	1.55		mg/kg wet	93%	58 - 120	11D4497	04/19/11 20:42
Benzo (a) anthracene	1.67	1.54		mg/kg wet	92%	57 - 120	11D4497	04/19/11 20:42
Benzo (a) pyrene	1.67	1.57		mg/kg wet	94%	55 - 120	11D4497	04/19/11 20:42
Benzo (b) fluoranthene	1.67	1.58		mg/kg wet	95%	51 - 123	11D4497	04/19/11 20:42
Benzo (g,h,i) perylene	1.67	1.30		mg/kg wet	78%	49 - 121	11D4497	04/19/11 20:42
Benzo (k) fluoranthene	1.67	1.58		mg/kg wet	95%	42 - 129	11D4497	04/19/11 20:42
Chrysene	1.67	1.46		mg/kg wet	88%	55 - 120	11D4497	04/19/11 20:42
Dibenz (a,h) anthracene	1.67	1.45		mg/kg wet	87%	50 - 123	11D4497	04/19/11 20:42
Fluoranthene	1.67	1.52		mg/kg wet	91%	58 - 120	11D4497	04/19/11 20:42
Fluorene	1.67	1.42		mg/kg wet	85%	54 - 120	11D4497	04/19/11 20:42
Indeno (1,2,3-cd) pyrene	1.67	1.40		mg/kg wet	84%	50 - 122	11D4497	04/19/11 20:42
Naphthalene	1.67	1.18		mg/kg wet	71%	28 - 120	11D4497	04/19/11 20:42
Phenanthrene	1.67	1.47		mg/kg wet	88%	56 - 120	11D4497	04/19/11 20:42
Pyrene	1.67	1.61		mg/kg wet	97%	56 - 120	11D4497	04/19/11 20:42
1-Methylnaphthalene	1.67	1.07		mg/kg wet	64%	36 - 120	11D4497	04/19/11 20:42
2-Methylnaphthalene	1.67	1.22		mg/kg wet	73%	36 - 120	11D4497	04/19/11 20:42

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

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8270D								
11D4497-BS1								
Surrogate: Terphenyl-d14	1.67	1.42			85%	18 - 120	11D4497	04/19/11 20:42
Surrogate: 2-Fluorobiphenyl	1.67	1.22			73%	14 - 120	11D4497	04/19/11 20:42
Surrogate: Nitrobenzene-d5	1.67	1.30			78%	17 - 120	11D4497	04/19/11 20:42

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

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

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
Volatile Organic Compounds by EPA Method 8260B												
11D4465-BSD1												
Benzene		49.7		ug/kg	50.0	99%	78 - 126	11	50	11D4465		04/21/11 12:48
Ethylbenzene		59.4		ug/kg	50.0	119%	79 - 130	2	50	11D4465		04/21/11 12:48
Naphthalene		55.2		ug/kg	50.0	110%	72 - 150	5	50	11D4465		04/21/11 12:48
Toluene		59.6		ug/kg	50.0	119%	76 - 126	1	50	11D4465		04/21/11 12:48
Xylenes, total		187		ug/kg	150	125%	80 - 130	0.9	50	11D4465		04/21/11 12:48
Surrogate: 1,2-Dichloroethane-d4		45.7		ug/kg	50.0	91%	67 - 138			11D4465		04/21/11 12:48
Surrogate: Dibromofluoromethane		44.4		ug/kg	50.0	89%	75 - 125			11D4465		04/21/11 12:48
Surrogate: Toluene-d8		51.4		ug/kg	50.0	103%	76 - 129			11D4465		04/21/11 12:48
Surrogate: 4-Bromofluorobenzene		52.0		ug/kg	50.0	104%	67 - 147			11D4465		04/21/11 12:48

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

PROJECT QUALITY CONTROL DATA
Matrix Spike

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
11D4465-MS1										
Benzene	ND	2.36		mg/kg wet	2.47	96%	42 - 141	11D4465	NUD2041-01R E2	04/21/11 23:33
Ethylbenzene	ND	2.90		mg/kg wet	2.47	117%	21 - 165	11D4465	NUD2041-01R E2	04/21/11 23:33
Naphthalene	0.235	2.44		mg/kg wet	2.47	89%	10 - 160	11D4465	NUD2041-01R E2	04/21/11 23:33
Toluene	ND	2.83		mg/kg wet	2.47	115%	45 - 145	11D4465	NUD2041-01R E2	04/21/11 23:33
Xylenes, total	ND	8.89		mg/kg wet	7.40	120%	31 - 159	11D4465	NUD2041-01R E2	04/21/11 23:33
Surrogate: 1,2-Dichloroethane-d4		43.6		ug/kg	50.0	87%	67 - 138	11D4465	NUD2041-01R E2	04/21/11 23:33
Surrogate: Dibromofluoromethane		43.9		ug/kg	50.0	88%	75 - 125	11D4465	NUD2041-01R E2	04/21/11 23:33
Surrogate: Toluene-d8		53.6		ug/kg	50.0	107%	76 - 129	11D4465	NUD2041-01R E2	04/21/11 23:33
Surrogate: 4-Bromofluorobenzene		57.6		ug/kg	50.0	115%	67 - 147	11D4465	NUD2041-01R E2	04/21/11 23:33
11D4866-MS1										
Benzene	ND	2.03		mg/kg dry	2.62	77%	42 - 141	11D4866	NUD2768-02R E1	04/22/11 22:50
Ethylbenzene	0.655	3.44		mg/kg dry	2.62	106%	21 - 165	11D4866	NUD2768-02R E1	04/22/11 22:50
Naphthalene	5.01	7.45		mg/kg dry	2.62	93%	10 - 160	11D4866	NUD2768-02R E1	04/22/11 22:50
Toluene	ND	2.63		mg/kg dry	2.62	100%	45 - 145	11D4866	NUD2768-02R E1	04/22/11 22:50
Xylenes, total	1.39	10.0		mg/kg dry	7.87	110%	31 - 159	11D4866	NUD2768-02R E1	04/22/11 22:50
Surrogate: 1,2-Dichloroethane-d4		39.6		ug/kg	50.0	79%	67 - 138	11D4866	NUD2768-02R E1	04/22/11 22:50
Surrogate: Dibromofluoromethane		39.3		ug/kg	50.0	79%	75 - 125	11D4866	NUD2768-02R E1	04/22/11 22:50
Surrogate: Toluene-d8		53.9		ug/kg	50.0	108%	76 - 129	11D4866	NUD2768-02R E1	04/22/11 22:50
Surrogate: 4-Bromofluorobenzene		59.9		ug/kg	50.0	120%	67 - 147	11D4866	NUD2768-02R E1	04/22/11 22:50
Polyaromatic Hydrocarbons by EPA 8270D										
11D4497-MS1										
Acenaphthene	ND	1.65		mg/kg dry	2.55	65%	42 - 120	11D4497	NUD1535-01	04/19/11 21:04
Acenaphthylene	ND	1.71		mg/kg dry	2.55	67%	32 - 120	11D4497	NUD1535-01	04/19/11 21:04
Anthracene	ND	1.99		mg/kg dry	2.55	78%	10 - 200	11D4497	NUD1535-01	04/19/11 21:04
Benzo (a) anthracene	ND	1.97		mg/kg dry	2.55	77%	41 - 120	11D4497	NUD1535-01	04/19/11 21:04
Benzo (a) pyrene	ND	1.97		mg/kg dry	2.55	77%	33 - 121	11D4497	NUD1535-01	04/19/11 21:04
Benzo (b) fluoranthene	ND	2.19		mg/kg dry	2.55	86%	26 - 137	11D4497	NUD1535-01	04/19/11 21:04

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

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
Polyaromatic Hydrocarbons by EPA 8270D										
11D4497-MS1										
Benzo (g,h,i) perylene	ND	1.61		mg/kg dry	2.55	63%	21 - 124	11D4497	NUD1535-01	04/19/11 21:04
Benzo (k) fluoranthene	ND	1.84		mg/kg dry	2.55	72%	14 - 140	11D4497	NUD1535-01	04/19/11 21:04
Chrysene	ND	1.85		mg/kg dry	2.55	73%	28 - 123	11D4497	NUD1535-01	04/19/11 21:04
Dibenz (a,h) anthracene	ND	1.83		mg/kg dry	2.55	72%	25 - 127	11D4497	NUD1535-01	04/19/11 21:04
Fluoranthene	ND	2.01		mg/kg dry	2.55	79%	38 - 120	11D4497	NUD1535-01	04/19/11 21:04
Fluorene	ND	1.84		mg/kg dry	2.55	72%	41 - 120	11D4497	NUD1535-01	04/19/11 21:04
Indeno (1,2,3-cd) pyrene	ND	1.78		mg/kg dry	2.55	70%	25 - 123	11D4497	NUD1535-01	04/19/11 21:04
Naphthalene	ND	1.54		mg/kg dry	2.55	60%	25 - 120	11D4497	NUD1535-01	04/19/11 21:04
Phenanthrene	ND	1.89		mg/kg dry	2.55	74%	37 - 120	11D4497	NUD1535-01	04/19/11 21:04
Pyrene	ND	2.05		mg/kg dry	2.55	81%	29 - 125	11D4497	NUD1535-01	04/19/11 21:04
1-Methylnaphthalene	ND	1.39		mg/kg dry	2.55	55%	19 - 120	11D4497	NUD1535-01	04/19/11 21:04
2-Methylnaphthalene	ND	1.60		mg/kg dry	2.55	63%	11 - 120	11D4497	NUD1535-01	04/19/11 21:04
Surrogate: Terphenyl-d14		1.67		mg/kg dry	2.55	66%	18 - 120	11D4497	NUD1535-01	04/19/11 21:04
Surrogate: 2-Fluorobiphenyl		1.50		mg/kg dry	2.55	59%	14 - 120	11D4497	NUD1535-01	04/19/11 21:04
Surrogate: Nitrobenzene-d5		1.62		mg/kg dry	2.55	63%	17 - 120	11D4497	NUD1535-01	04/19/11 21:04

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

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
Volatile Organic Compounds by EPA Method 8260B												
11D4465-MSD1												
Benzene	ND	2.13		mg/kg wet	2.47	86%	42 - 141	10	50	11D4465	NUD2041-01R E2	04/22/11 00:04
Ethylbenzene	ND	3.04		mg/kg wet	2.47	123%	21 - 165	5	50	11D4465	NUD2041-01R E2	04/22/11 00:04
Naphthalene	0.235	2.50		mg/kg wet	2.47	92%	10 - 160	2	50	11D4465	NUD2041-01R E2	04/22/11 00:04
Toluene	ND	2.93		mg/kg wet	2.47	119%	45 - 145	4	50	11D4465	NUD2041-01R E2	04/22/11 00:04
Xylenes, total	ND	9.37		mg/kg wet	7.40	127%	31 - 159	5	50	11D4465	NUD2041-01R E2	04/22/11 00:04
Surrogate: 1,2-Dichloroethane-d4		37.6		ug/kg	50.0	75%	67 - 138			11D4465	NUD2041-01R E2	04/22/11 00:04
Surrogate: Dibromofluoromethane		38.4		ug/kg	50.0	77%	75 - 125			11D4465	NUD2041-01R E2	04/22/11 00:04
Surrogate: Toluene-d8		53.6		ug/kg	50.0	107%	76 - 129			11D4465	NUD2041-01R E2	04/22/11 00:04
Surrogate: 4-Bromofluorobenzene		58.9		ug/kg	50.0	118%	67 - 147			11D4465	NUD2041-01R E2	04/22/11 00:04
11D4866-MSD1												
Benzene	ND	2.40		mg/kg dry	2.62	92%	42 - 141	17	50	11D4866	NUD2768-02R E1	04/22/11 23:21
Ethylbenzene	0.655	3.73		mg/kg dry	2.62	117%	21 - 165	8	50	11D4866	NUD2768-02R E1	04/22/11 23:21
Naphthalene	5.01	7.50		mg/kg dry	2.62	95%	10 - 160	0.7	50	11D4866	NUD2768-02R E1	04/22/11 23:21
Toluene	ND	3.05		mg/kg dry	2.62	116%	45 - 145	15	50	11D4866	NUD2768-02R E1	04/22/11 23:21
Xylenes, total	1.39	11.0		mg/kg dry	7.87	122%	31 - 159	9	50	11D4866	NUD2768-02R E1	04/22/11 23:21
Surrogate: 1,2-Dichloroethane-d4		40.6		ug/kg	50.0	81%	67 - 138			11D4866	NUD2768-02R E1	04/22/11 23:21
Surrogate: Dibromofluoromethane		40.4		ug/kg	50.0	81%	75 - 125			11D4866	NUD2768-02R E1	04/22/11 23:21
Surrogate: Toluene-d8		53.7		ug/kg	50.0	107%	76 - 129			11D4866	NUD2768-02R E1	04/22/11 23:21
Surrogate: 4-Bromofluorobenzene		57.7		ug/kg	50.0	115%	67 - 147			11D4866	NUD2768-02R E1	04/22/11 23:21
Polyaromatic Hydrocarbons by EPA 8270D												
11D4497-MSD1												
Acenaphthene	ND	1.80		mg/kg dry	2.56	70%	42 - 120	8	40	11D4497	NUD1535-01	04/19/11 21:25
Acenaphthylene	ND	1.87		mg/kg dry	2.56	73%	32 - 120	9	30	11D4497	NUD1535-01	04/19/11 21:25
Anthracene	ND	2.12		mg/kg dry	2.56	83%	10 - 200	6	50	11D4497	NUD1535-01	04/19/11 21:25
Benzo (a) anthracene	ND	2.16		mg/kg dry	2.56	84%	41 - 120	9	30	11D4497	NUD1535-01	04/19/11 21:25
Benzo (a) pyrene	ND	2.13		mg/kg dry	2.56	83%	33 - 121	8	33	11D4497	NUD1535-01	04/19/11 21:25
Benzo (b) fluoranthene	ND	2.09		mg/kg dry	2.56	82%	26 - 137	4	42	11D4497	NUD1535-01	04/19/11 21:25
Benzo (g,h,i) perylene	ND	1.69		mg/kg dry	2.56	66%	21 - 124	5	32	11D4497	NUD1535-01	04/19/11 21:25
Benzo (k) fluoranthene	ND	2.19		mg/kg dry	2.56	85%	14 - 140	17	39	11D4497	NUD1535-01	04/19/11 21:25

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

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

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
Polyaromatic Hydrocarbons by EPA 8270D												
11D4497-MSD1												
Chrysene	ND	1.95		mg/kg dry	2.56	76%	28 - 123	5	34	11D4497	NUD1535-01	04/19/11 21:25
Dibenz (a,h) anthracene	ND	1.93		mg/kg dry	2.56	75%	25 - 127	6	31	11D4497	NUD1535-01	04/19/11 21:25
Fluoranthene	ND	2.18		mg/kg dry	2.56	85%	38 - 120	8	35	11D4497	NUD1535-01	04/19/11 21:25
Fluorene	ND	2.00		mg/kg dry	2.56	78%	41 - 120	8	37	11D4497	NUD1535-01	04/19/11 21:25
Indeno (1,2,3-cd) pyrene	ND	1.83		mg/kg dry	2.56	71%	25 - 123	3	32	11D4497	NUD1535-01	04/19/11 21:25
Naphthalene	ND	1.70		mg/kg dry	2.56	66%	25 - 120	10	42	11D4497	NUD1535-01	04/19/11 21:25
Phenanthrene	ND	2.04		mg/kg dry	2.56	80%	37 - 120	8	32	11D4497	NUD1535-01	04/19/11 21:25
Pyrene	ND	2.13		mg/kg dry	2.56	83%	29 - 125	3	40	11D4497	NUD1535-01	04/19/11 21:25
1-Methylnaphthalene	ND	1.55		mg/kg dry	2.56	61%	19 - 120	11	45	11D4497	NUD1535-01	04/19/11 21:25
2-Methylnaphthalene	ND	1.78		mg/kg dry	2.56	70%	11 - 120	11	50	11D4497	NUD1535-01	04/19/11 21:25
Surrogate: Terphenyl-d14		1.70		mg/kg dry	2.56	66%	18 - 120			11D4497	NUD1535-01	04/19/11 21:25
Surrogate: 2-Fluorobiphenyl		1.61		mg/kg dry	2.56	63%	14 - 120			11D4497	NUD1535-01	04/19/11 21:25
Surrogate: Nitrobenzene-d5		1.75		mg/kg dry	2.56	68%	17 - 120			11D4497	NUD1535-01	04/19/11 21:25

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

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

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			

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

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUD2768
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	04/16/11 08:45

DATA QUALIFIERS AND DEFINITIONS

CF7	Result may be elevated due to carry over from previously analyzed sample.
J	Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
RL1	Reporting limit raised due to sample matrix effects.
Z2	Surrogate recovery was above the acceptance limits. Data not impacted.
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

NUD2768

05/02/11 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 - SBG # 2449

Address: 10179 Highway 78

City/State/Zip: Ladson, SC 29456

Site State: SC

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

PO#: 1027

Telephone Number: 843.412.2097 **Fax No:** (843) 879-0401

TA Quote #:

Sampler Name: (Print) Pratt Shaw

Project ID: Laurel Bay Housing Project

Sampler Signature:

Project #:

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO3 (Red Label)	H2SO4 (Blue Label) 30 diff	NaOH (Orange Label)	H2SO4 Plastic (Yellow Label)	H2SO4 Glass(Yellow Label)	None (Black Label)	Other (Specify) Methanol	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: BTEX + Napth - 8260B	PAH - 8270D									RUSH TAT (Pre-Schedule)
1364 Cardinal-2	4/11/11	1030	5	X					2				2	—					X		X	X		1							
1430 Dove	4/12/11	1130	5	X					2				2	1					X		X	X		2							
1358 Cardinal	4/13/11	1215	5	X					2				2	1					X		X	X		3							
1444 Dove -1	4/14/11	1200	5	X					2				2	1					X		X	X		4							
1444 Dove-2	4/14/11	1445	5	X					2				2	1					X		X	X		5							

Special Instructions:

Method of Shipment: FEDEX

Relinquished by:	Date	Time	Received by:	Date	Time
	4/15/11	0900	FedEx		
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
				4/16/11	0815

Laboratory Comments:

Temperature Upon Receipt: 0°C

VOCs Free of Headspace? Y

ATTACHMENT A

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
MCAS, BEAUFORT
LAUREL BAY HOUSING
BEAUFORT, SC 29907
4. Generator's Phone 843-228-6461

Generator's Site Address (If different than mailing):

A. Manifest Number: WMNA 00316811
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: 843-879-0411

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
2621 LOW COUNTRY ROAD
RIDGELAND, SC 29936
10. US EPA ID Number:
G. State Facility ID:
H. State Facility Phone: 843-987-4643

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. HEATING OIL TANKS FILLED WITH SAND WM Profile # 102655SC		20Y	6.5T		
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
4 ST's from: 1) 1358 CARDINAL ✓ 2) 1444 DOVE - 2✓ 3) 769 AITHEA - 2✓ 4) 1383 DOVE 5) 1408 EAGLE 6) 1362 CARDINAL

Purchase Order #
EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by 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 Name	Signature "On behalf of"	Month	Day	Year
Charles H Herron	Charles H. Herron	5	11	11

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
James Baldwin	James Baldwin	5	12	11

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

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 Name	Signature	Month	Day	Year
Toni Cofield	Toni Cofield	5	12	11

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

Appendix C
Regulatory Correspondence

D H E C
PROMOTE PROTECT PROSPER
W. Marshall Taylor Jr., Acting Director
Promoting and protecting the health of the public and the environment

April 9, 2014

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

RE: No Further Action
Laurel Bay Underground Storage Tank Assessment Reports for:
See attached sheet

Dear Mr. Drawdy,

The South Carolina Department of Health and Environmental Control (the Department) received the above referenced Underground Storage Tanks (USTs) Assessment Reports for the addresses listed above. The regulatory authority for the investigation and cleanup of releases from these tank systems is the South Carolina Pollution Control Act (S.C. Code Ann. §48-1-10 et seq., as amended).

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 Corps Air Station (MCAS) to date. Any information found to be contradictory to this decision may require additional action. Furthermore, the Department retains the right to request further investigation if deemed necessary.

If you have any questions, please contact me at kriegkm@dhec.sc.gov or 803-898-0255.

Sincerely,

Kent Krieg
Department of Defense Corrective Action Section
Bureau of Land and Waste Management
South Carolina Department of Health and Environmental Control

Cc: Russell Berry (via email)
Craig Ehde (via email)

Attachment to: Krieg to Drawdy
Subject: NFA
Dated 4/9/2015

Laurel Bay Underground Storage Tank Assessment Reports for: (9 addresses/10 tanks)

1179 Bobwhite	1380 Dove
1188 Bobwhite Tank 1	1383 Dove
1188 Bobwhite Tank 2	1400 Eagle
1358 Cardinal	1402 Eagle
1372 Dove	1419 Albatross