SUMMARY REPORT
128 ASH STREET (FORMERLY 311 ASH STREET)
LAUREL BAY MILITARY HOUSING AREA
MARINE CORPS AIR STATION BEAUFORT
BEAUFORT, SC

Revision: 0

Prepared for:

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

and

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

JUNE 2021

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Prepared by:

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

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

Table of Contents

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 128 Ash Street (Formerly 311 Ash Street). 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 128 Ash Street (Formerly 311 Ash Street). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 311 Ash Street* (MCAS Beaufort, 2011). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On July 19, 2011, a single 280 gallon heating oil UST was removed from the landscaped area adjacent to the porch at 128 Ash Street (Formerly 311 Ash Street). The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). 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 5’5” 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 128 Ash Street (Formerly 311 Ash Street) 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 128 Ash Street (Formerly 311 Ash Street). This NFA determination was obtained in a letter dated July 1, 2015. 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 – 311 Ash Street, Laurel Bay Military Housing Area*, December 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
128 Ash Street (Formerly 311 Ash Street)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs [1]	Results Sample Collected 07/19/11
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)		
Benzene	0.003	ND
Ethylbenzene	1.15	ND
Naphthalene	0.036	ND
Toluene	0.627	ND
Xylenes, Total	13.01	ND
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (mg/kg)		
Benzo(a)anthracene	0.66	ND
Benzo(b)fluoranthene	0.66	ND
Benzo(k)fluoranthene	0.66	ND
Chrysene	0.66	ND
Dibenz(a,h)anthracene	0.66	ND

Notes:

[1] South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 3.0 and 3.1 (SCDHEC, May 2015 and SCDHEC, February 2016) 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

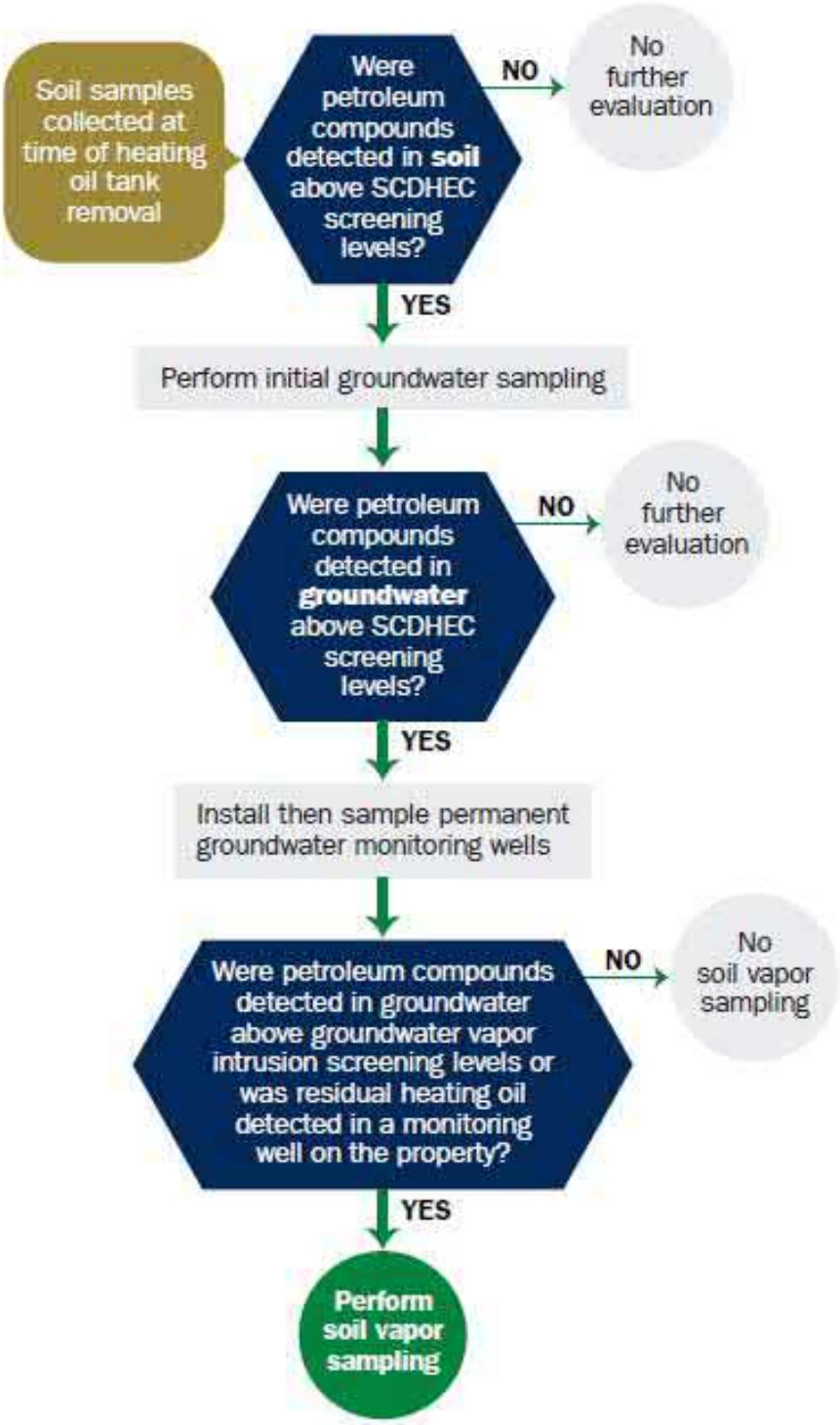
ND - not detected at the reporting limit (or method detection limit if shown on the laboratory report). The laboratory report is provided in Appendix B.

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

Appendix A
Multi-Media Selection Process for LBMH

CDM - AECOM
Multimedia Joint Venture



Appendix A - Multi-Media Selection Process for LBMH

Appendix B
UST Assessment Report

CDM - AECOM
Multimedia Joint Venture

Attachment 1

South Carolina Department of Health and Environmental Control (SCDHEC)

Underground Storage Tank (UST) Assessment Report

Date Received

State Use Only

RECEIVED
DEC 08 2011
SC DHEC - Bureau of
Land & Waste Management

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

311 Ash Street, 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).....	311Ash				
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 1980s				
G.	Spill Prevention Equipment Y/N.....	5'5"				
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.....	7/19/11				
L.	Visible Holes Y/N.....	Yes				
		Yes				

M. Method of disposal for any USTs removed from the ground (attach disposal manifests)
UST 311Ash was removed from the ground, cleaned and recycled. See Attachment "A."

N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests)
Contaminated water was pumped from UST 311Ash and disposed by MCAS.

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

311Ash				
Steel & Copper				
N/A				
N/A				
Suction				
No				
Yes				
No				
Late 1950s				

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.

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 84009

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
311Ash	Excav at fill end	Soil	Sandy	5'5"	7/19/11 1200 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.

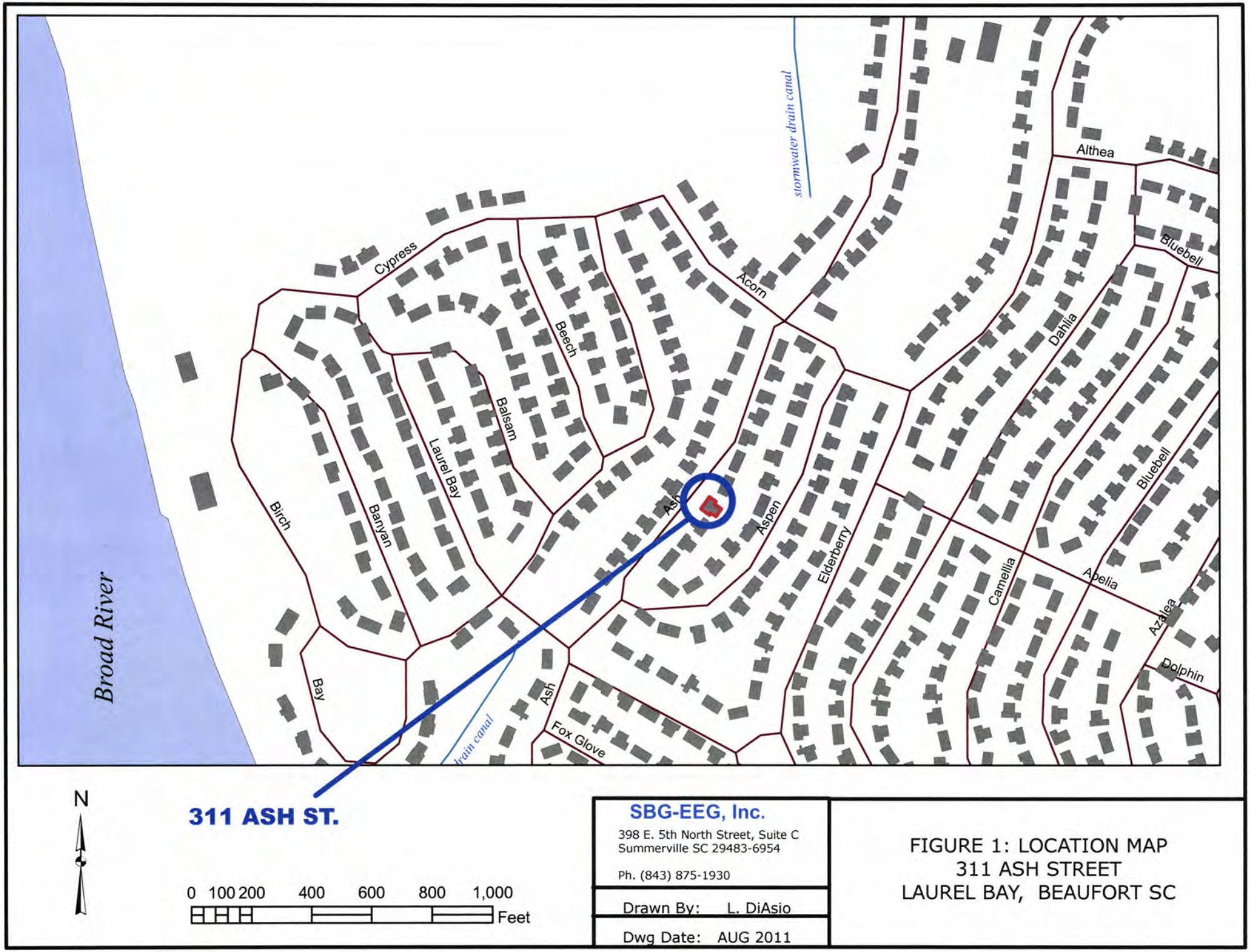
XII. RECEPTORS

	Yes	No
A. Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system? *~720' to stormwater canal 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)

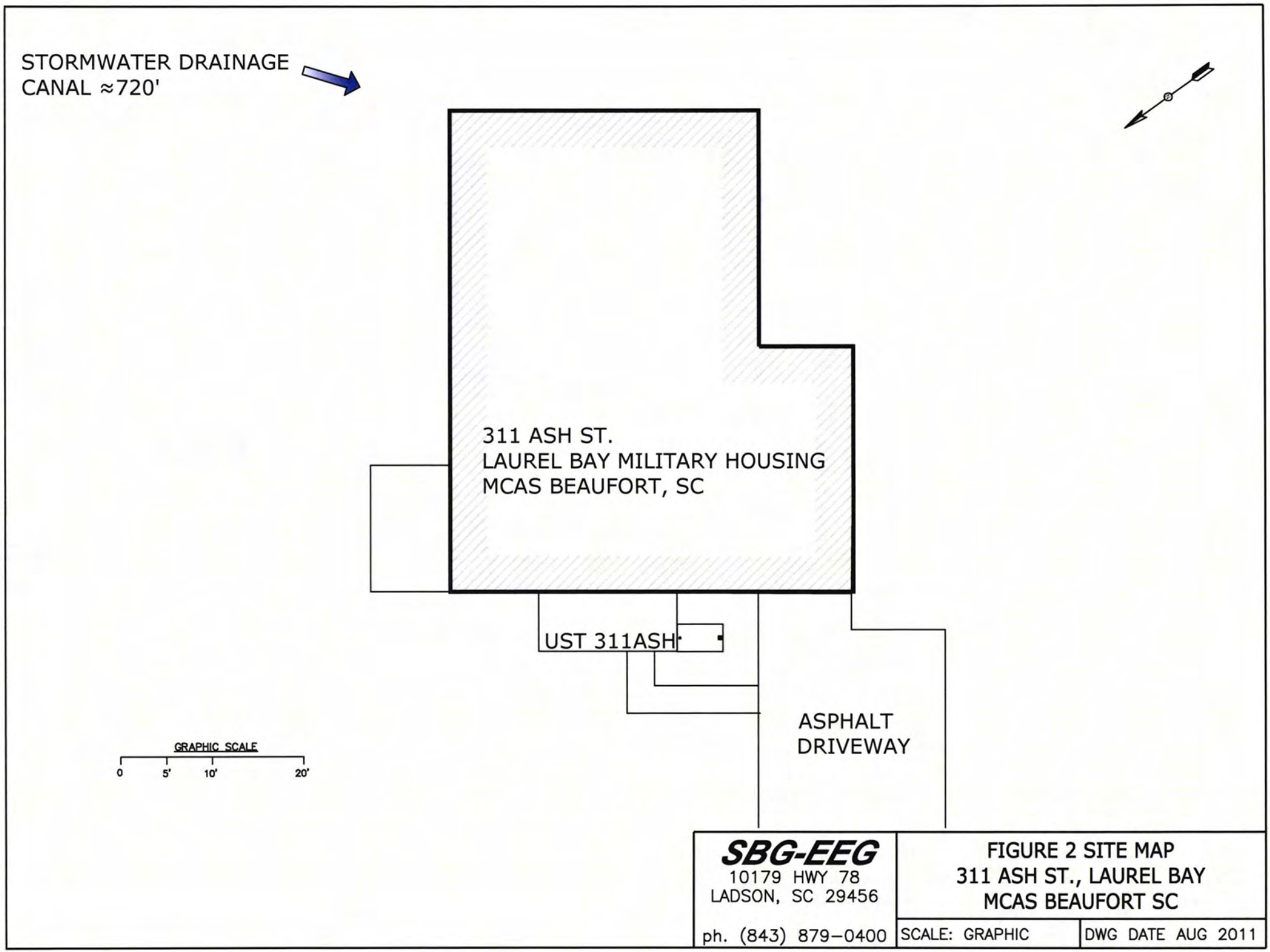


SBG-EEG, Inc.
398 E. 5th North Street, Suite C
Summerville SC 29483-6954
Ph. (843) 875-1930

Drawn By: L. DiAsio

Dwg Date: AUG 2011

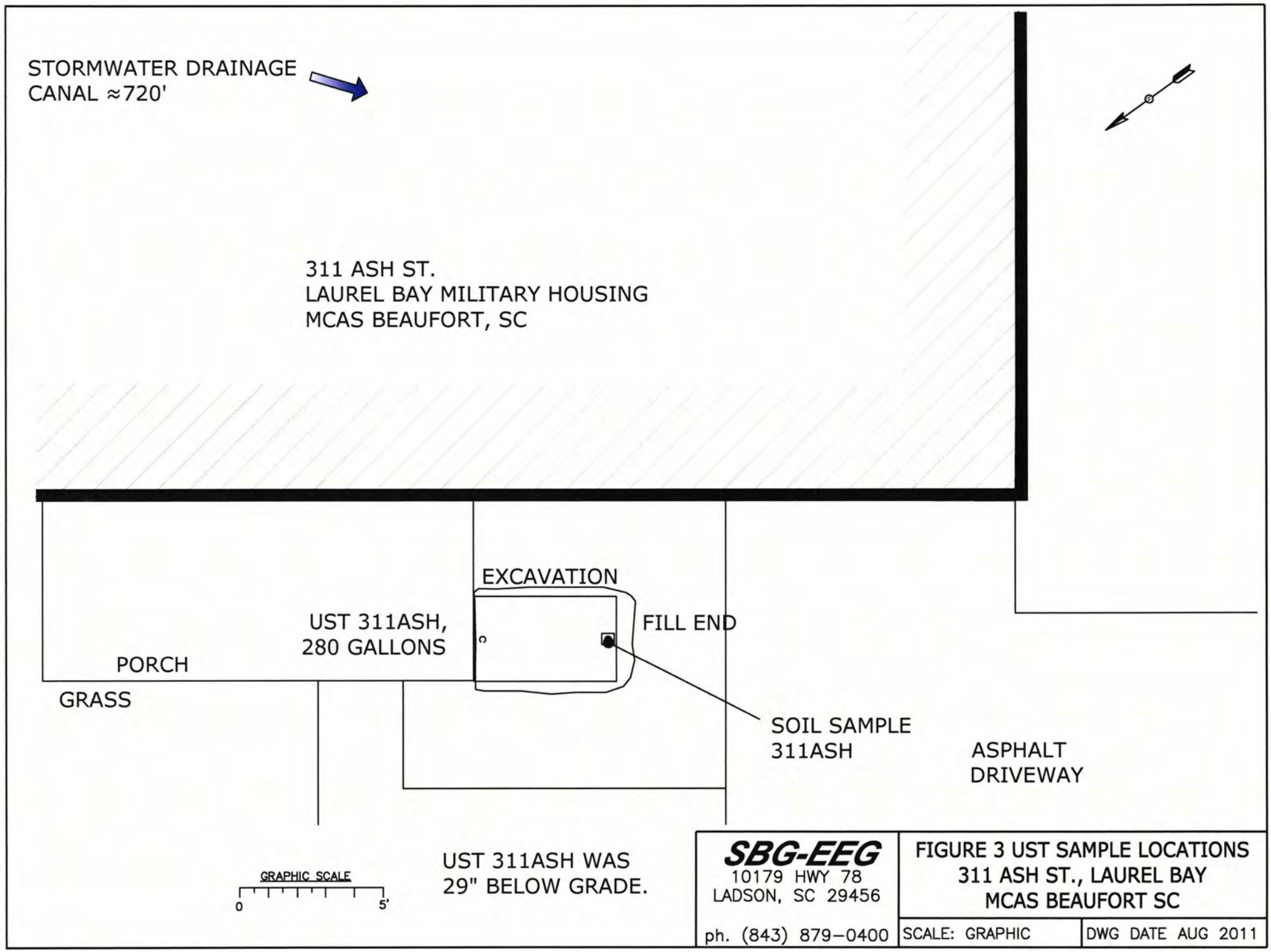
FIGURE 1: LOCATION MAP
311 ASH STREET
LAUREL BAY, BEAUFORT SC



SBG-EEG
10179 HWY 78
LADSON, SC 29456
ph. (843) 879-0400

FIGURE 2 SITE MAP
311 ASH ST., LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC | DWG DATE AUG 2011



SBG-EEG
10179 HWY 78
LADSON, SC 29456
ph. (843) 879–0400

FIGURE 3 UST SAMPLE LOCATIONS
311 ASH ST., LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC | DWG DATE AUG 2011

Picture 1: Location of UST 311Ash.

Picture 2: UST 311Ash removal in progress.

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	311Ash						
Benzene	ND						
Toluene	ND						
Ethylbenzene	ND						
Xylenes	ND						
Naphthalene	ND						
Benzo (a) anthracene	ND						
Benzo (b) fluoranthene	ND						
Benzo (k) fluoranthene	ND						
Chrysene	ND						
Dibenz (a, h) anthracene	ND						
TPH (EPA 3550)							

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

SUMMARY OF ANALYSIS RESULTS (cont'd)

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

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

XV. ANALYTICAL RESULTS

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

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Road
Nashville, TN 37204
Tel: 800-765-0980

TestAmerica Job ID: NUG3402
Client Project/Site: [none]
Client Project Description: Laurel Bay Housing Project

For:
EEG - Small Business Group, Inc. (2449)
10179 Highway 78
Ladson, SC 29456

Attn: Tom McElwee

Authorized for release by:
08/05/2011 06:02:55 PM

Ken A. Hayes
Senior Project Manager
ken.hayes@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Table of Contents

Sample Summary

Client: EEG - Small Business Group, Inc. (2449)
Project/Site: [none]

TestAmerica Job ID: NUG3402

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NUG3402-01	333 Ash	Soil	07/18/11 13:15	07/23/11 08:30
NUG3402-02	311 Ash	Soil	07/19/11 12:00	07/23/11 08:30
NUG3402-03	524 Laurel Bay	Soil	07/20/11 10:45	07/23/11 08:30
NUG3402-04	860 Dolphin	Soil	07/21/11 11:15	07/23/11 08:30

Definitions/Glossary

Client: EEG - Small Business Group, Inc. (2449)
Project/Site: [none]

TestAmerica Job ID: NUG3402

Qualifiers

GCMS Volatiles

Qualifier	Qualifier Description
RL1	Reporting limit raised due to sample matrix effects.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

GCMS Semivolatiles

Qualifier	Qualifier Description
A-01	No MS/MSD reported due to internal standard failure. Batch accepted based on LCS results.
I	Internal Standard recovery was outside of method limits. Matrix interference was confirmed by reanalysis.
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.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client Sample ID: 333 Ash
Date Collected: 07/18/11 13:15
Date Received: 07/23/11 08:30

Lab Sample ID: NUG3402-01
Matrix: Soil
Percent Solids: 84.7

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00173	0.000951	mg/kg dry	☼	07/18/11 13:15	07/29/11 20:46	1.00
Ethylbenzene	**0.0547**		0.00173	0.000847	mg/kg dry	☼	07/18/11 13:15	07/29/11 20:46	1.00
Toluene	**0.00491**		0.00173	0.000770	mg/kg dry	☼	07/18/11 13:15	07/29/11 20:46	1.00
Xylenes, total	**0.201**		0.00432	0.00164	mg/kg dry	☼	07/18/11 13:15	07/29/11 20:46	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*110*		*67 - 138*	*07/18/11 13:15*	*07/29/11 20:46*	*1.00*
Dibromofluoromethane	*106*		*75 - 125*	*07/18/11 13:15*	*07/29/11 20:46*	*1.00*
Toluene-d8	*147*	*ZX*	*76 - 129*	*07/18/11 13:15*	*07/29/11 20:46*	*1.00*
4-Bromofluorobenzene	*732*	*ZX*	*67 - 147*	*07/18/11 13:15*	*07/29/11 20:46*	*1.00*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.526**		0.234	0.0796	mg/kg dry	☼	07/18/11 13:15	08/01/11 16:40	50.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*92*		*67 - 138*	*07/18/11 13:15*	*08/01/11 16:40*	*50.0*
Dibromofluoromethane	*98*		*75 - 125*	*07/18/11 13:15*	*08/01/11 16:40*	*50.0*
Toluene-d8	*105*		*76 - 129*	*07/18/11 13:15*	*08/01/11 16:40*	*50.0*
4-Bromofluorobenzene	*114*		*67 - 147*	*07/18/11 13:15*	*08/01/11 16:40*	*50.0*

Method: SW846 8270D - Polyaromatic Hydrocarbons by EPA 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0770	0.0161	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:22	1.00
Acenaphthylene	ND		0.0770	0.0230	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:22	1.00
Anthracene	ND		0.0770	0.0103	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:22	1.00
Benzo (a) anthracene	ND		0.0770	0.0126	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:22	1.00
Benzo (a) pyrene	ND		0.0770	0.00920	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:22	1.00
Benzo (b) fluoranthene	ND		0.0770	0.0437	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:22	1.00
Benzo (g,h,i) perylene	ND		0.0770	0.0103	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:22	1.00
Benzo (k) fluoranthene	ND		0.0770	0.0425	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:22	1.00
Chrysene	**0.0747**	**J**	0.0770	0.0356	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:22	1.00
Dibenz (a,h) anthracene	ND		0.0770	0.0172	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:22	1.00
Fluoranthene	ND		0.0770	0.0126	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:22	1.00
Fluorene	ND		0.0770	0.0230	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:22	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0770	0.0356	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:22	1.00
Naphthalene	ND		0.0770	0.0161	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:22	1.00
Phenanthrene	ND		0.0770	0.0115	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:22	1.00
Pyrene	ND		0.0770	0.0264	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:22	1.00
1-Methylnaphthalene	ND		0.0770	0.0138	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:22	1.00
2-Methylnaphthalene	ND		0.0770	0.0241	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:22	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*146*	*ZX*	*18 - 120*	*07/29/11 09:15*	*07/29/11 19:22*	*1.00*
2-Fluorobiphenyl	*121*	*ZX*	*14 - 120*	*07/29/11 09:15*	*07/29/11 19:22*	*1.00*
Nitrobenzene-d5	*86*		*17 - 120*	*07/29/11 09:15*	*07/29/11 19:22*	*1.00*

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**84.7**		0.500	0.500	%		08/02/11 16:00	08/03/11 09:06	1.00

Client Sample ID: 311 Ash
Date Collected: 07/19/11 12:00
Date Received: 07/23/11 08:30

Lab Sample ID: NUG3402-02
Matrix: Soil
Percent Solids: 89.3

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00219	0.00120	mg/kg dry	☼	07/19/11 12:00	08/01/11 15:08	1.00
Ethylbenzene	ND		0.00219	0.00107	mg/kg dry	☼	07/19/11 12:00	08/01/11 15:08	1.00
Naphthalene	ND		0.00547	0.00186	mg/kg dry	☼	07/19/11 12:00	08/01/11 15:08	1.00
Toluene	ND		0.00219	0.000973	mg/kg dry	☼	07/19/11 12:00	08/01/11 15:08	1.00
Xylenes, total	ND		0.00547	0.00208	mg/kg dry	☼	07/19/11 12:00	08/01/11 15:08	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*107*		*67 - 138*	*07/19/11 12:00*	*08/01/11 15:08*	*1.00*
Dibromofluoromethane	*101*		*75 - 125*	*07/19/11 12:00*	*08/01/11 15:08*	*1.00*
Toluene-d8	*107*		*76 - 129*	*07/19/11 12:00*	*08/01/11 15:08*	*1.00*
4-Bromofluorobenzene	*126*		*67 - 147*	*07/19/11 12:00*	*08/01/11 15:08*	*1.00*

Method: SW846 8270D - Polyaromatic Hydrocarbons by EPA 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0735	0.0154	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:41	1.00
Acenaphthylene	ND		0.0735	0.0219	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:41	1.00
Anthracene	ND		0.0735	0.00987	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:41	1.00
Benzo (a) anthracene	ND		0.0735	0.0121	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:41	1.00
Benzo (a) pyrene	ND		0.0735	0.00878	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:41	1.00
Benzo (b) fluoranthene	ND		0.0735	0.0417	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:41	1.00
Benzo (g,h,i) perylene	ND		0.0735	0.00987	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:41	1.00
Benzo (k) fluoranthene	ND		0.0735	0.0406	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:41	1.00
Chrysene	ND		0.0735	0.0340	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:41	1.00
Dibenz (a,h) anthracene	ND		0.0735	0.0165	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:41	1.00
Fluoranthene	ND		0.0735	0.0121	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:41	1.00
Fluorene	ND		0.0735	0.0219	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:41	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0735	0.0340	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:41	1.00
Naphthalene	ND		0.0735	0.0154	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:41	1.00
Phenanthrene	ND		0.0735	0.0110	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:41	1.00
Pyrene	ND		0.0735	0.0252	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:41	1.00
1-Methylnaphthalene	ND		0.0735	0.0132	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:41	1.00
2-Methylnaphthalene	ND		0.0735	0.0230	mg/kg dry	☼	07/29/11 09:15	07/29/11 19:41	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*95*		*18 - 120*	*07/29/11 09:15*	*07/29/11 19:41*	*1.00*
2-Fluorobiphenyl	*71*		*14 - 120*	*07/29/11 09:15*	*07/29/11 19:41*	*1.00*
Nitrobenzene-d5	*67*		*17 - 120*	*07/29/11 09:15*	*07/29/11 19:41*	*1.00*

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	89.3		0.500	0.500	%		08/02/11 16:00	08/03/11 09:06	1.00

Client Sample ID: 524 Laurel Bay
Date Collected: 07/20/11 10:45
Date Received: 07/23/11 08:30

Lab Sample ID: NUG3402-03
Matrix: Soil
Percent Solids: 89

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00217	0.00120	mg/kg dry	☼	07/20/11 10:45	07/29/11 21:49	1.00
Ethylbenzene	ND		0.00217	0.00106	mg/kg dry	☼	07/20/11 10:45	07/29/11 21:49	1.00
Naphthalene	ND		0.00543	0.00185	mg/kg dry	☼	07/20/11 10:45	07/29/11 21:49	1.00
Toluene	ND		0.00217	0.000967	mg/kg dry	☼	07/20/11 10:45	07/29/11 21:49	1.00
Xylenes, total	ND		0.00543	0.00206	mg/kg dry	☼	07/20/11 10:45	07/29/11 21:49	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*95*		*67 - 138*	*07/20/11 10:45*	*07/29/11 21:49*	*1.00*
Dibromofluoromethane	*93*		*75 - 125*	*07/20/11 10:45*	*07/29/11 21:49*	*1.00*
Toluene-d8	*104*		*76 - 129*	*07/20/11 10:45*	*07/29/11 21:49*	*1.00*
4-Bromofluorobenzene	*110*		*67 - 147*	*07/20/11 10:45*	*07/29/11 21:49*	*1.00*

Method: SW846 8270D - Polyaromatic Hydrocarbons by EPA 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0734	0.0153	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:00	1.00
Acenaphthylene	ND		0.0734	0.0219	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:00	1.00
Anthracene	ND		0.0734	0.00985	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:00	1.00
Benzo (a) anthracene	ND		0.0734	0.0120	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:00	1.00
Benzo (a) pyrene	ND		0.0734	0.00876	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:00	1.00
Benzo (b) fluoranthene	ND		0.0734	0.0416	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:00	1.00
Benzo (g,h,i) perylene	ND		0.0734	0.00985	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:00	1.00
Benzo (k) fluoranthene	ND		0.0734	0.0405	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:00	1.00
Chrysene	ND		0.0734	0.0339	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:00	1.00
Dibenz (a,h) anthracene	ND		0.0734	0.0164	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:00	1.00
Fluoranthene	ND		0.0734	0.0120	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:00	1.00
Fluorene	ND		0.0734	0.0219	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:00	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0734	0.0339	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:00	1.00
Naphthalene	ND		0.0734	0.0153	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:00	1.00
Phenanthrene	ND		0.0734	0.0109	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:00	1.00
Pyrene	ND		0.0734	0.0252	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:00	1.00
1-Methylnaphthalene	ND		0.0734	0.0131	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:00	1.00
2-Methylnaphthalene	ND		0.0734	0.0230	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:00	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*94*		*18 - 120*	*07/29/11 09:15*	*07/29/11 20:00*	*1.00*
2-Fluorobiphenyl	*70*		*14 - 120*	*07/29/11 09:15*	*07/29/11 20:00*	*1.00*
Nitrobenzene-d5	*67*		*17 - 120*	*07/29/11 09:15*	*07/29/11 20:00*	*1.00*

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**89.0**		0.500	0.500	%		08/02/11 16:00	08/03/11 09:06	1.00

Client Sample ID: 860 Dolphin
Date Collected: 07/21/11 11:15
Date Received: 07/23/11 08:30

Lab Sample ID: NUG3402-04
Matrix: Soil
Percent Solids: 95.2

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00248	0.00136	mg/kg dry	☼	07/21/11 11:15	07/29/11 22:20	1.00
Ethylbenzene	ND		0.00248	0.00121	mg/kg dry	☼	07/21/11 11:15	07/29/11 22:20	1.00
Toluene	ND		0.00248	0.00110	mg/kg dry	☼	07/21/11 11:15	07/29/11 22:20	1.00
Xylenes, total	ND		0.00619	0.00235	mg/kg dry	☼	07/21/11 11:15	07/29/11 22:20	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*98*		*67 - 138*	*07/21/11 11:15*	*07/29/11 22:20*	*1.00*
Dibromofluoromethane	*96*		*75 - 125*	*07/21/11 11:15*	*07/29/11 22:20*	*1.00*
Toluene-d8	*112*		*76 - 129*	*07/21/11 11:15*	*07/29/11 22:20*	*1.00*
4-Bromofluorobenzene	*144*		*67 - 147*	*07/21/11 11:15*	*07/29/11 22:20*	*1.00*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	RL1	0.309	0.105	mg/kg dry	☼	07/21/11 11:15	08/01/11 16:09	50.0

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*99*		*67 - 138*	*07/21/11 11:15*	*08/01/11 16:09*	*50.0*
Dibromofluoromethane	*97*		*75 - 125*	*07/21/11 11:15*	*08/01/11 16:09*	*50.0*
Toluene-d8	*100*		*76 - 129*	*07/21/11 11:15*	*08/01/11 16:09*	*50.0*
4-Bromofluorobenzene	*101*		*67 - 147*	*07/21/11 11:15*	*08/01/11 16:09*	*50.0*

Method: SW846 8270D - Polyaromatic Hydrocarbons by EPA 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0682	0.0143	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:20	1.00
Acenaphthylene	**0.133**		0.0682	0.0204	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:20	1.00
Anthracene	ND		0.0682	0.00916	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:20	1.00
Benzo (a) anthracene	**0.0560**	J	0.0682	0.0112	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:20	1.00
Benzo (a) pyrene	ND		0.0682	0.00815	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:20	1.00
Benzo (b) fluoranthene	**0.0770**		0.0682	0.0387	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:20	1.00
Benzo (g,h,i) perylene	ND		0.0682	0.00916	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:20	1.00
Benzo (k) fluoranthene	**0.0563**	J	0.0682	0.0377	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:20	1.00
Chrysene	**0.0859**		0.0682	0.0316	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:20	1.00
Dibenz (a,h) anthracene	ND		0.0682	0.0153	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:20	1.00
Fluoranthene	ND		0.0682	0.0112	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:20	1.00
Fluorene	ND		0.0682	0.0204	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:20	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0682	0.0316	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:20	1.00
Naphthalene	ND		0.0682	0.0143	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:20	1.00
Phenanthrene	ND		0.0682	0.0102	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:20	1.00
Pyrene	**0.576**		0.0682	0.0234	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:20	1.00
1-Methylnaphthalene	ND		0.0682	0.0122	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:20	1.00
2-Methylnaphthalene	ND		0.0682	0.0214	mg/kg dry	☼	07/29/11 09:15	07/29/11 20:20	1.00

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*118*		*18 - 120*	*07/29/11 09:15*	*07/29/11 20:20*	*1.00*
2-Fluorobiphenyl	*71*		*14 - 120*	*07/29/11 09:15*	*07/29/11 20:20*	*1.00*
Nitrobenzene-d5	*68*		*17 - 120*	*07/29/11 09:15*	*07/29/11 20:20*	*1.00*

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**95.2**		0.500	0.500	%		08/02/11 16:00	08/03/11 09:06	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Lab Sample ID: 11G5603-BLK1
Matrix: Soil
Analysis Batch: U013553

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11G5603_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.00110	mg/kg wet		07/25/11 08:54	07/29/11 13:35	1.00
Ethylbenzene	ND		0.00200	0.000980	mg/kg wet		07/25/11 08:54	07/29/11 13:35	1.00
Naphthalene	ND		0.00500	0.00170	mg/kg wet		07/25/11 08:54	07/29/11 13:35	1.00
Toluene	ND		0.00200	0.000890	mg/kg wet		07/25/11 08:54	07/29/11 13:35	1.00
Xylenes, total	ND		0.00500	0.00190	mg/kg wet		07/25/11 08:54	07/29/11 13:35	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*99*		*67 - 138*	*07/25/11 08:54*	*07/29/11 13:35*	*1.00*
Dibromofluoromethane	*96*		*75 - 125*	*07/25/11 08:54*	*07/29/11 13:35*	*1.00*
Toluene-d8	*107*		*76 - 129*	*07/25/11 08:54*	*07/29/11 13:35*	*1.00*
4-Bromofluorobenzene	*103*		*67 - 147*	*07/25/11 08:54*	*07/29/11 13:35*	*1.00*

Lab Sample ID: 11G5603-BS1
Matrix: Soil
Analysis Batch: U013553

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11G5603_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Benzene	50.0	45.9		ug/kg		92	78 - 126
Ethylbenzene	50.0	50.9		ug/kg		102	79 - 130
Naphthalene	50.0	47.2		ug/kg		94	72 - 150
Toluene	50.0	47.4		ug/kg		95	76 - 126
Xylenes, total	150	152		ug/kg		101	80 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*97*		*67 - 138*
Dibromofluoromethane	*98*		*75 - 125*
Toluene-d8	*105*		*76 - 129*
4-Bromofluorobenzene	*105*		*67 - 147*

Lab Sample ID: 11G5603-MS1
Matrix: Soil
Analysis Batch: U013553

Client Sample ID: Matrix Spike
Prep Type: Total
Prep Batch: 11G5603_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Benzene	ND		0.0520	0.0470		mg/kg dry	☼	90	42 - 141
Ethylbenzene	0.0107		0.0520	0.0556		mg/kg dry	☼	86	21 - 165
Naphthalene	0.00185		0.0520	0.0483		mg/kg dry	☼	89	10 - 160
Toluene	0.00478		0.0520	0.0504		mg/kg dry	☼	88	45 - 145
Xylenes, total	0.0591		0.156	0.176		mg/kg dry	☼	75	31 - 159

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
1,2-Dichloroethane-d4	*92*		*67 - 138*
Dibromofluoromethane	*93*		*75 - 125*
Toluene-d8	*107*		*76 - 129*
4-Bromofluorobenzene	*108*		*67 - 147*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11G5603-MSD1
Matrix: Soil
Analysis Batch: U013553

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 11G5603_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Benzene	ND		0.0541	0.0497		mg/kg dry	☼	92	42 - 141	5	50
Ethylbenzene	0.0107		0.0541	0.0580		mg/kg dry	☼	87	21 - 165	4	50
Naphthalene	0.00185		0.0541	0.0509		mg/kg dry	☼	91	10 - 160	5	50
Toluene	0.00478		0.0541	0.0525		mg/kg dry	☼	88	45 - 145	4	50
Xylenes, total	0.0591		0.162	0.184		mg/kg dry	☼	77	31 - 159	5	50

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*94*		*67 - 138*
Dibromofluoromethane	*95*		*75 - 125*
Toluene-d8	*108*		*76 - 129*
4-Bromofluorobenzene	*104*		*67 - 147*

Lab Sample ID: 11H0262-BLK1
Matrix: Soil
Analysis Batch: U013656

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11H0262_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.00110	mg/kg wet		08/01/11 00:16	08/01/11 14:06	1.00
Ethylbenzene	ND		0.00200	0.000980	mg/kg wet		08/01/11 00:16	08/01/11 14:06	1.00
Naphthalene	ND		0.00500	0.00170	mg/kg wet		08/01/11 00:16	08/01/11 14:06	1.00
Toluene	ND		0.00200	0.000890	mg/kg wet		08/01/11 00:16	08/01/11 14:06	1.00
Xylenes, total	ND		0.00500	0.00190	mg/kg wet		08/01/11 00:16	08/01/11 14:06	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*105*		*67 - 138*	*08/01/11 00:16*	*08/01/11 14:06*	*1.00*
Dibromofluoromethane	*104*		*75 - 125*	*08/01/11 00:16*	*08/01/11 14:06*	*1.00*
Toluene-d8	*99*		*76 - 129*	*08/01/11 00:16*	*08/01/11 14:06*	*1.00*
4-Bromofluorobenzene	*101*		*67 - 147*	*08/01/11 00:16*	*08/01/11 14:06*	*1.00*

Lab Sample ID: 11H0262-BLK2
Matrix: Soil
Analysis Batch: U013656

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11H0262_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.100	0.0550	mg/kg wet		08/01/11 00:16	08/01/11 14:37	50.0
Ethylbenzene	ND		0.100	0.0490	mg/kg wet		08/01/11 00:16	08/01/11 14:37	50.0
Naphthalene	ND		0.250	0.0850	mg/kg wet		08/01/11 00:16	08/01/11 14:37	50.0
Toluene	ND		0.100	0.0445	mg/kg wet		08/01/11 00:16	08/01/11 14:37	50.0
Xylenes, total	ND		0.250	0.0950	mg/kg wet		08/01/11 00:16	08/01/11 14:37	50.0

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*96*		*67 - 138*	*08/01/11 00:16*	*08/01/11 14:37*	*50.0*
Dibromofluoromethane	*99*		*75 - 125*	*08/01/11 00:16*	*08/01/11 14:37*	*50.0*
Toluene-d8	*101*		*76 - 129*	*08/01/11 00:16*	*08/01/11 14:37*	*50.0*
4-Bromofluorobenzene	*97*		*67 - 147*	*08/01/11 00:16*	*08/01/11 14:37*	*50.0*

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11H0262-BS1
Matrix: Soil
Analysis Batch: U013656

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11H0262_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Benzene	50.0	58.4		ug/kg		117	78 - 126
Ethylbenzene	50.0	60.4		ug/kg		121	79 - 130
Naphthalene	50.0	58.3		ug/kg		117	72 - 150
Toluene	50.0	57.3		ug/kg		115	76 - 126
Xylenes, total	150	181		ug/kg		121	80 - 130

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*115*		*67 - 138*
Dibromofluoromethane	*102*		*75 - 125*
Toluene-d8	*101*		*76 - 129*
4-Bromofluorobenzene	*102*		*67 - 147*

Lab Sample ID: 11H0262-MS1
Matrix: Soil
Analysis Batch: U013656

Client Sample ID: 311 Ash
Prep Type: Total
Prep Batch: 11H0262_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Benzene	ND		0.0554	0.0567		mg/kg dry	☼	102	42 - 141
Ethylbenzene	ND		0.0554	0.0602		mg/kg dry	☼	109	21 - 165
Naphthalene	ND		0.0554	0.0232		mg/kg dry	☼	42	10 - 160
Toluene	ND		0.0554	0.0627		mg/kg dry	☼	113	45 - 145
Xylenes, total	ND		0.166	0.173		mg/kg dry	☼	104	31 - 159

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
1,2-Dichloroethane-d4	*109*		*67 - 138*
Dibromofluoromethane	*102*		*75 - 125*
Toluene-d8	*109*		*76 - 129*
4-Bromofluorobenzene	*128*		*67 - 147*

Lab Sample ID: 11H0262-MSD1
Matrix: Soil
Analysis Batch: U013656

Client Sample ID: 311 Ash
Prep Type: Total
Prep Batch: 11H0262_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Benzene	ND		0.0549	0.0523		mg/kg dry	☼	95	42 - 141	8	50
Ethylbenzene	ND		0.0549	0.0538		mg/kg dry	☼	98	21 - 165	11	50
Naphthalene	ND		0.0549	0.0183		mg/kg dry	☼	33	10 - 160	23	50
Toluene	ND		0.0549	0.0570		mg/kg dry	☼	104	45 - 145	10	50
Xylenes, total	ND		0.165	0.154		mg/kg dry	☼	94	31 - 159	11	50

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*109*		*67 - 138*
Dibromofluoromethane	*100*		*75 - 125*
Toluene-d8	*110*		*76 - 129*
4-Bromofluorobenzene	*127*		*67 - 147*

Method: SW846 8270D - Polyaromatic Hydrocarbons by EPA 8270D

Lab Sample ID: 11G5742-BLK1
Matrix: Soil
Analysis Batch: 11G5742

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11G5742_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0140	mg/kg wet		07/29/11 09:15	07/29/11 18:04	1.00
Acenaphthylene	ND		0.0670	0.0200	mg/kg wet		07/29/11 09:15	07/29/11 18:04	1.00
Anthracene	ND		0.0670	0.00900	mg/kg wet		07/29/11 09:15	07/29/11 18:04	1.00
Benzo (a) anthracene	ND		0.0670	0.0110	mg/kg wet		07/29/11 09:15	07/29/11 18:04	1.00
Benzo (a) pyrene	ND		0.0670	0.00800	mg/kg wet		07/29/11 09:15	07/29/11 18:04	1.00
Benzo (b) fluoranthene	ND		0.0670	0.0380	mg/kg wet		07/29/11 09:15	07/29/11 18:04	1.00
Benzo (g,h,i) perylene	ND		0.0670	0.00900	mg/kg wet		07/29/11 09:15	07/29/11 18:04	1.00
Benzo (k) fluoranthene	ND		0.0670	0.0370	mg/kg wet		07/29/11 09:15	07/29/11 18:04	1.00
Chrysene	ND		0.0670	0.0310	mg/kg wet		07/29/11 09:15	07/29/11 18:04	1.00
Dibenz (a,h) anthracene	ND		0.0670	0.0150	mg/kg wet		07/29/11 09:15	07/29/11 18:04	1.00
Fluoranthene	ND		0.0670	0.0110	mg/kg wet		07/29/11 09:15	07/29/11 18:04	1.00
Fluorene	ND		0.0670	0.0200	mg/kg wet		07/29/11 09:15	07/29/11 18:04	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0670	0.0310	mg/kg wet		07/29/11 09:15	07/29/11 18:04	1.00
Naphthalene	ND		0.0670	0.0140	mg/kg wet		07/29/11 09:15	07/29/11 18:04	1.00
Phenanthrene	ND		0.0670	0.0100	mg/kg wet		07/29/11 09:15	07/29/11 18:04	1.00
Pyrene	ND		0.0670	0.0230	mg/kg wet		07/29/11 09:15	07/29/11 18:04	1.00
1-Methylnaphthalene	ND		0.0670	0.0120	mg/kg wet		07/29/11 09:15	07/29/11 18:04	1.00
2-Methylnaphthalene	ND		0.0670	0.0210	mg/kg wet		07/29/11 09:15	07/29/11 18:04	1.00

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*102*		*18 - 120*	*07/29/11 09:15*	*07/29/11 18:04*	*1.00*
2-Fluorobiphenyl	*78*		*14 - 120*	*07/29/11 09:15*	*07/29/11 18:04*	*1.00*
Nitrobenzene-d5	*79*		*17 - 120*	*07/29/11 09:15*	*07/29/11 18:04*	*1.00*

Lab Sample ID: 11G5742-BS1
Matrix: Soil
Analysis Batch: 11G5742

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11G5742_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	1.67	1.53	A-01	mg/kg wet		92	49 - 120
Acenaphthylene	1.67	1.57	A-01	mg/kg wet		94	52 - 120
Anthracene	1.67	1.67	A-01	mg/kg wet		100	58 - 120
Benzo (a) anthracene	1.67	1.63	A-01	mg/kg wet		98	57 - 120
Benzo (a) pyrene	1.67	1.75	A-01	mg/kg wet		105	55 - 120
Benzo (b) fluoranthene	1.67	1.93	A-01	mg/kg wet		116	51 - 123
Benzo (g,h,i) perylene	1.67	1.50	A-01	mg/kg wet		90	49 - 121
Benzo (k) fluoranthene	1.67	1.37	A-01	mg/kg wet		82	42 - 129
Chrysene	1.67	1.54	A-01	mg/kg wet		93	55 - 120
Dibenz (a,h) anthracene	1.67	1.54	A-01	mg/kg wet		92	50 - 123
Fluoranthene	1.67	1.69	A-01	mg/kg wet		101	58 - 120
Fluorene	1.67	1.63	A-01	mg/kg wet		98	54 - 120
Indeno (1,2,3-cd) pyrene	1.67	1.53	A-01	mg/kg wet		92	50 - 122
Naphthalene	1.67	1.71	A-01	mg/kg wet		103	28 - 120
Phenanthrene	1.67	1.62	A-01	mg/kg wet		97	56 - 120
Pyrene	1.67	1.60	A-01	mg/kg wet		96	56 - 120
1-Methylnaphthalene	1.67	1.30		mg/kg wet		78	36 - 120
2-Methylnaphthalene	1.67	1.56		mg/kg wet		94	36 - 120

Method: SW846 8270D - Polyaromatic Hydrocarbons by EPA 8270D (Continued)

Lab Sample ID: 11G5742-BS1
Matrix: Soil
Analysis Batch: 11G5742

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11G5742_P

Surrogate	LCS % Recovery	LCS Qualifier	Limits
Terphenyl-d14	100		18 - 120
2-Fluorobiphenyl	82		14 - 120
Nitrobenzene-d5	80		17 - 120

Lab Sample ID: 11G5742-MS1
Matrix: Soil
Analysis Batch: 11G5742

Client Sample ID: 333 Ash
Prep Type: Total
Prep Batch: 11G5742_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	ND		1.93	60.8	I	mg/kg dry	☼	3160	42 - 120
Acenaphthylene	ND		1.93	2.43	I	mg/kg dry	☼	126	32 - 120
Anthracene	ND		1.93	44.5	I	mg/kg dry	☼	2310	10 - 200
Benzo (a) anthracene	ND		1.93	1.69	I	mg/kg dry	☼	88	41 - 120
Benzo (a) pyrene	ND		1.93	1.73	I	mg/kg dry	☼	90	33 - 121
Benzo (b) fluoranthene	ND		1.93	1.71	I	mg/kg dry	☼	88	26 - 137
Benzo (g,h,i) perylene	ND		1.93	1.47	I	mg/kg dry	☼	76	21 - 124
Benzo (k) fluoranthene	ND		1.93	1.78	I	mg/kg dry	☼	92	14 - 140
Chrysene	0.0747	J	1.93	1.81	I	mg/kg dry	☼	90	28 - 123
Dibenz (a,h) anthracene	ND		1.93	1.52	I	mg/kg dry	☼	79	25 - 127
Fluoranthene	ND		1.93	28.3	I	mg/kg dry	☼	1470	38 - 120
Fluorene	ND		1.93	4.66	I	mg/kg dry	☼	242	41 - 120
Indeno (1,2,3-cd) pyrene	ND		1.93	1.51	I	mg/kg dry	☼	78	25 - 123
Naphthalene	ND		1.93	2.73	I	mg/kg dry	☼	142	25 - 120
Phenanthrene	ND		1.93	7.91	I	mg/kg dry	☼	410	37 - 120
Pyrene	ND		1.93	3.01	I	mg/kg dry	☼	156	29 - 125
1-Methylnaphthalene	ND		1.93	1.68	I	mg/kg dry	☼	87	19 - 120
2-Methylnaphthalene	ND		1.93	1.83	I	mg/kg dry	☼	95	11 - 120

Surrogate	Matrix Spike % Recovery	Matrix Spike Qualifier	Limits
Terphenyl-d14	110	I	18 - 120
2-Fluorobiphenyl	1710	I	14 - 120
Nitrobenzene-d5	71	I	17 - 120

Lab Sample ID: 11G5742-MSD1
Matrix: Soil
Analysis Batch: 11G5742

Client Sample ID: 333 Ash
Prep Type: Total
Prep Batch: 11G5742_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		1.92	178	I	mg/kg dry	☼	9280	42 - 120	98	40
Acenaphthylene	ND		1.92	4.99	I	mg/kg dry	☼	261	32 - 120	69	30
Anthracene	ND		1.92	3.29	I	mg/kg dry	☼	172	10 - 200	173	50
Benzo (a) anthracene	ND		1.92	2.02	I	mg/kg dry	☼	106	41 - 120	18	30
Benzo (a) pyrene	ND		1.92	2.18	I	mg/kg dry	☼	114	33 - 121	23	33
Benzo (b) fluoranthene	ND		1.92	4.04	I	mg/kg dry	☼	211	26 - 137	81	42
Benzo (g,h,i) perylene	ND		1.92	1.90	I	mg/kg dry	☼	99	21 - 124	25	32
Benzo (k) fluoranthene	ND		1.92	4.21	I	mg/kg dry	☼	220	14 - 140	81	39
Chrysene	0.0747	J	1.92	2.16	I	mg/kg dry	☼	109	28 - 123	18	34
Dibenz (a,h) anthracene	ND		1.92	1.95	I	mg/kg dry	☼	102	25 - 127	25	31
Fluoranthene	ND		1.92	2.44	I	mg/kg dry	☼	127	38 - 120	168	35

Method: SW846 8270D - Polyaromatic Hydrocarbons by EPA 8270D (Continued)

Lab Sample ID: 11G5742-MSD1
Matrix: Soil
Analysis Batch: 11G5742

Client Sample ID: 333 Ash
Prep Type: Total
Prep Batch: 11G5742_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Fluorene	ND		1.92	14.2	I	mg/kg dry	☼	742	41 - 120	101	37
Indeno (1,2,3-cd) pyrene	ND		1.92	1.94	I	mg/kg dry	☼	101	25 - 123	25	32
Naphthalene	ND		1.92	3.16	I	mg/kg dry	☼	165	25 - 120	15	42
Phenanthrene	ND		1.92	0.500	I	mg/kg dry	☼	26	37 - 120	176	32
Pyrene	ND		1.92	3.61	I	mg/kg dry	☼	188	29 - 125	18	40
1-Methylnaphthalene	ND		1.92	1.98	I	mg/kg dry	☼	104	19 - 120	16	45
2-Methylnaphthalene	ND		1.92	2.09	I	mg/kg dry	☼	109	11 - 120	13	50

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
Terphenyl-d14	*133*	*I*	*18 - 120*
2-Fluorobiphenyl	*4890*	*I*	*14 - 120*
Nitrobenzene-d5	*83*	*I*	*17 - 120*

Method: SW-846 - General Chemistry Parameters

Lab Sample ID: 11H0326-DUP1
Matrix: Soil
Analysis Batch: 11H0326

Client Sample ID: Duplicate
Prep Type: Total
Prep Batch: 11H0326_P

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
% Dry Solids	86.9			87.2		%				0.3	20

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Analysis Batch: U013553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11G5603-BS1	Lab Control Sample	Total	Soil	SW846 8260B	11G5603_P
11G5603-BLK1	Method Blank	Total	Soil	SW846 8260B	11G5603_P
NUG3402-01	333 Ash	Total	Soil	SW846 8260B	11G5603_P
NUG3402-03	524 Laurel Bay	Total	Soil	SW846 8260B	11G5603_P
NUG3402-04	860 Dolphin	Total	Soil	SW846 8260B	11G5603_P
11G5603-MS1	Matrix Spike	Total	Soil	SW846 8260B	11G5603_P
11G5603-MSD1	Matrix Spike Duplicate	Total	Soil	SW846 8260B	11G5603_P

Analysis Batch: U013656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H0262-BS1	Lab Control Sample	Total	Soil	SW846 8260B	11H0262_P
11H0262-BLK1	Method Blank	Total	Soil	SW846 8260B	11H0262_P
11H0262-BLK2	Method Blank	Total	Soil	SW846 8260B	11H0262_P
NUG3402-02 - RE1	311 Ash	Total	Soil	SW846 8260B	11H0262_P
NUG3402-04 - RE1	860 Dolphin	Total	Soil	SW846 8260B	11H0262_P
NUG3402-01 - RE1	333 Ash	Total	Soil	SW846 8260B	11H0262_P
11H0262-MS1	311 Ash	Total	Soil	SW846 8260B	11H0262_P
11H0262-MSD1	311 Ash	Total	Soil	SW846 8260B	11H0262_P

Prep Batch: 11G5603_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11G5603-BS1	Lab Control Sample	Total	Soil	EPA 5035	
11G5603-BLK1	Method Blank	Total	Soil	EPA 5035	
NUG3402-01	333 Ash	Total	Soil	EPA 5035	
NUG3402-03	524 Laurel Bay	Total	Soil	EPA 5035	
NUG3402-04	860 Dolphin	Total	Soil	EPA 5035	
11G5603-MS1	Matrix Spike	Total	Soil	EPA 5035	
11G5603-MSD1	Matrix Spike Duplicate	Total	Soil	EPA 5035	

Prep Batch: 11H0262_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H0262-BS1	Lab Control Sample	Total	Soil	EPA 5035	
11H0262-BLK1	Method Blank	Total	Soil	EPA 5035	
11H0262-BLK2	Method Blank	Total	Soil	EPA 5035	
NUG3402-02 - RE1	311 Ash	Total	Soil	EPA 5035	
NUG3402-04 - RE1	860 Dolphin	Total	Soil	EPA 5035	
NUG3402-01 - RE1	333 Ash	Total	Soil	EPA 5035	
11H0262-MS1	311 Ash	Total	Soil	EPA 5035	
11H0262-MSD1	311 Ash	Total	Soil	EPA 5035	

GCMS Semivolatiles

Analysis Batch: 11G5742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11G5742-BLK1	Method Blank	Total	Soil	SW846 8270D	11G5742_P
11G5742-BS1	Lab Control Sample	Total	Soil	SW846 8270D	11G5742_P
11G5742-MS1	333 Ash	Total	Soil	SW846 8270D	11G5742_P
11G5742-MSD1	333 Ash	Total	Soil	SW846 8270D	11G5742_P
NUG3402-01	333 Ash	Total	Soil	SW846 8270D	11G5742_P
NUG3402-02	311 Ash	Total	Soil	SW846 8270D	11G5742_P
NUG3402-03	524 Laurel Bay	Total	Soil	SW846 8270D	11G5742_P
NUG3402-04	860 Dolphin	Total	Soil	SW846 8270D	11G5742_P

GCMS Semivolatiles (Continued)

Prep Batch: 11G5742_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11G5742-BLK1	Method Blank	Total	Soil	EPA 3550C	
11G5742-BS1	Lab Control Sample	Total	Soil	EPA 3550C	
11G5742-MS1	333 Ash	Total	Soil	EPA 3550C	
11G5742-MSD1	333 Ash	Total	Soil	EPA 3550C	
NUG3402-01	333 Ash	Total	Soil	EPA 3550C	
NUG3402-02	311 Ash	Total	Soil	EPA 3550C	
NUG3402-03	524 Laurel Bay	Total	Soil	EPA 3550C	
NUG3402-04	860 Dolphin	Total	Soil	EPA 3550C	

Extractions

Analysis Batch: 11H0326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H0326-DUP1	Duplicate	Total	Soil	SW-846	11H0326_P
NUG3402-01	333 Ash	Total	Soil	SW-846	11H0326_P
NUG3402-02	311 Ash	Total	Soil	SW-846	11H0326_P
NUG3402-03	524 Laurel Bay	Total	Soil	SW-846	11H0326_P
NUG3402-04	860 Dolphin	Total	Soil	SW-846	11H0326_P

Prep Batch: 11H0326_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H0326-DUP1	Duplicate	Total	Soil	% Solids	
NUG3402-01	333 Ash	Total	Soil	% Solids	
NUG3402-02	311 Ash	Total	Soil	% Solids	
NUG3402-03	524 Laurel Bay	Total	Soil	% Solids	
NUG3402-04	860 Dolphin	Total	Soil	% Solids	

Client Sample ID: 333 Ash

Lab Sample ID: NUG3402-01

Date Collected: 07/18/11 13:15

Matrix: Soil

Date Received: 07/23/11 08:30

Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.732	11G5603_P	07/18/11 13:15	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U013553	07/29/11 20:46	KXC	TAL NSH
Total	Prep	EPA 5035	RE1	0.792	11H0262_P	07/18/11 13:15	TSP	TAL NSH
Total	Analysis	SW846 8260B	RE1	50.0	U013656	08/01/11 16:40	KXC	TAL NSH
Total	Prep	EPA 3550C		0.973	11G5742_P	07/29/11 09:15	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	11G5742	07/29/11 19:22	BES	TAL NSH
Total	Prep	% Solids		1.00	11H0326_P	08/02/11 16:00	AMS	TAL NSH
Total	Analysis	SW-846		1.00	11H0326	08/03/11 09:06	RRS	TAL NSH

Client Sample ID: 311 Ash

Lab Sample ID: NUG3402-02

Date Collected: 07/19/11 12:00

Matrix: Soil

Date Received: 07/23/11 08:30

Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035	RE1	0.977	11H0262_P	07/19/11 12:00	TSP	TAL NSH
Total	Analysis	SW846 8260B	RE1	1.00	U013656	08/01/11 15:08	KXC	TAL NSH
Total	Prep	EPA 3550C		0.979	11G5742_P	07/29/11 09:15	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	11G5742	07/29/11 19:41	BES	TAL NSH
Total	Prep	% Solids		1.00	11H0326_P	08/02/11 16:00	AMS	TAL NSH
Total	Analysis	SW-846		1.00	11H0326	08/03/11 09:06	RRS	TAL NSH

Client Sample ID: 524 Laurel Bay

Lab Sample ID: NUG3402-03

Date Collected: 07/20/11 10:45

Matrix: Soil

Date Received: 07/23/11 08:30

Percent Solids: 89

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.967	11G5603_P	07/20/11 10:45	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U013553	07/29/11 21:49	KXC	TAL NSH
Total	Prep	EPA 3550C		0.974	11G5742_P	07/29/11 09:15	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	11G5742	07/29/11 20:00	BES	TAL NSH
Total	Prep	% Solids		1.00	11H0326_P	08/02/11 16:00	AMS	TAL NSH
Total	Analysis	SW-846		1.00	11H0326	08/03/11 09:06	RRS	TAL NSH

Client Sample ID: 860 Dolphin

Lab Sample ID: NUG3402-04

Date Collected: 07/21/11 11:15

Matrix: Soil

Date Received: 07/23/11 08:30

Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		1.18	11G5603_P	07/21/11 11:15	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	U013553	07/29/11 22:20	KXC	TAL NSH
Total	Prep	EPA 5035	RE1	1.18	11H0262_P	07/21/11 11:15	TSP	TAL NSH
Total	Analysis	SW846 8260B	RE1	50.0	U013656	08/01/11 16:09	KXC	TAL NSH
Total	Prep	EPA 3550C		0.969	11G5742_P	07/29/11 09:15	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	11G5742	07/29/11 20:20	BES	TAL NSH
Total	Prep	% Solids		1.00	11H0326_P	08/02/11 16:00	AMS	TAL NSH

Lab Chronicle

Client: EEG - Small Business Group, Inc. (2449)
Project/Site: [none]

TestAmerica Job ID: NUG3402

Client Sample ID: 860 Dolphin
Date Collected: 07/21/11 11:15
Date Received: 07/23/11 08:30

Lab Sample ID: NUG3402-04
Matrix: Soil
Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Analysis	SW-846		1.00	11H0326	08/03/11 09:06	RRS	TAL NSH

Laboratory References:
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Method Summary

Client: EEG - Small Business Group, Inc. (2449)
Project/Site: [none]

TestAmerica Job ID: NUG3402

Method	Method Description	Protocol	Laboratory
SW-846	General Chemistry Parameters		TAL NSH
SW846 8260B	Volatile Organic Compounds by EPA Method 8260B		TAL NSH
SW846 8270D	Polyaromatic Hydrocarbons by EPA 8270D		TAL NSH

Protocol References:

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Certification Summary

Client: EEG - Small Business Group, Inc. (2449)
Project/Site: [none]

TestAmerica Job ID: NUG3402

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	A2LA	WY UST		453.07
TestAmerica Nashville	AIHA	IHLAP		100790
TestAmerica Nashville	Alabama	State Program	4	41150
TestAmerica Nashville	Alaska	Alaska UST	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas	State Program	6	88-0737
TestAmerica Nashville	CALA	CALA		3744
TestAmerica Nashville	California	NELAC	9	1168CA
TestAmerica Nashville	Colorado	State Program	8	N/A
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAC	4	E87358
TestAmerica Nashville	Illinois	NELAC	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAC	7	E-10229
TestAmerica Nashville	Kentucky	Kentucky UST	4	19
TestAmerica Nashville	Kentucky	State Program	4	90038
TestAmerica Nashville	Louisiana	NELAC	6	LA100011
TestAmerica Nashville	Louisiana	NELAC	6	30613
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAC	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana	MT DEQ UST	8	NA
TestAmerica Nashville	Nevada	State Program	9	TN00032
TestAmerica Nashville	New Hampshire	NELAC	1	2963
TestAmerica Nashville	New Jersey	NELAC	2	TN965
TestAmerica Nashville	New York	NELAC	2	11342
TestAmerica Nashville	North Carolina	North Carolina DENR	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio	OVAP	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAC	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAC	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAC	6	T104704077-09-TX
TestAmerica Nashville	USDA	USDA		S-48469
TestAmerica Nashville	Utah	NELAC	8	TAN
TestAmerica Nashville	Virginia	NELAC Secondary AB	3	460152
TestAmerica Nashville	Virginia	State Program	3	00323
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia	West Virginia DEP	3	219
TestAmerica Nashville	Wisconsin	State Program	5	998020430

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

TestAmerica **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
Project Manager: Tom McElwee email: mcelwee@eeginc.net
Telephone Number: 843.412.2097 **Fax No.:** (843) 579-C4E1
Sampler Name: (Print) Pratt Shaw
Sampler Signature: [signature]

Site State: SC
PO#: 1927
TA Quote #:
Project ID: Laurel Bay Housing Project
Project #:

NUG3402

08/08/11 23:59

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Ice	HNO_3 (Red Label)	~~HCl (Blue Label)~~ Sodium Bisulfate	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass (Yellow Label)	None (Black Label)	Other (Specify) Methanol	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify)	BTEX + Napth - 8260B	PAH - 8270D	RUSH TAT (Pre-Schedule)
333 Ash	7/18/11	1315	5	X					2				2	1					X		X	X	
311 Ash	7/19/11	1200	5	X					2				2	1					X		X	X	
524 Laurel Bay	7/20/11	1045	5	X					2				2	1					X		X	X	
866 Delphin	7/21/11	1115	5	X					2				2	1					X		X	X	

Special Instructions:

Method of Shipment: FEDEX

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	7/22/11	1000	FedEx	7/22/11	
Relinquished by:	Date	Time	Received by TestAmerica: [signature] 7/23/11	7/23/11	0530

ARD 7/23/11

Laboratory Comments:
Temperature Upon Receipt:
VOCs Free of Headspace? Y

08/05/2011

ATTACHMENT A

UST Certificate of Disposal

CONTRACTOR

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

TEL (843) 879-0403
FAX (843) 879-0401

TANK ID & LOCATION

UST 311Ash; 311 Ash Street, Laurel Bay Housing Area, MCAS Beaufort, S.C.

DISPOSAL LOCATION

Coastal Auto Salvage Co., Inc.
130 Laurel Bay Road
Beaufort, S.C. 29906

TYPE OF TANK	SIZE (GAL)
Steel	280

CLEANING/DISPOSAL METHOD

The tank and piping were unearthed, cut open, cleaned with a pressure washer, cut into sections, and recycled.

DISPOSAL CERTIFICATION

I certify that the above tank, piping and equipment has been properly cleaned and disposed of.

T.R. McElmee , 9/9/11
(Name) (Date)

Appendix C
Regulatory Correspondence

D H E C
PROMOTE PROTECT PROSPER
Catherine E. Heigel, Director
Promoting and protecting the health of the public and the environment

July 1, 2015

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 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)
Bryan Beck (via email)

D H E C
PROMOTE PROTECT PROSPER
Catherine E. Heigel, Director
Promoting and protecting the health of the public and the environment

Attachment to: Krieg to Drawdy
Subject: NFA
Dated 7/1/2015

Laurel Bay Underground Storage Tank Assessment Reports for: (153 addresses/161 tanks)

111 Birch	363 Aspen
123 Banyan	364 Aspen
131 Banyan	366 Aspen
134 Banyan	369 Aspen
145 Laurel Bay	373 Aspen
150 Laurel Bay	381 Aspen
153 Laurel Bay	401 Elderberry
154 Laurel Bay	402 Elderberry
155 Laurel Bay	404 Elderberry
200 Balsam	410 Elderberry
202 Balsam	420 Elderberry
203 Balsam	424 Elderberry
208 Balsam	435 Elderberry Tank 3
210 Balsam	452 Elderberry
211 Balsam	460 Elderberry
220 Cypress	465 Dogwood
222 Cypress	477 Laurel Bay
223 Cypress	487Laurel Bay
252 Beech Tank 2	513 Laurel Bay
271 Beech Tank 1	519 Laurel Bay
271 Beech Tank 2	524 Laurel Bay
284 Birch Tank 1	535 Laurel Bay
284 Birch Tank 2	553 Dahlia
308 Ash	590 Aster
311 Ash	591 Aster
312 Ash	610 Dahlia
317 Ash	612 Dahlia
318 Ash	628 Dahlia
337 Ash	636 Dahlia
351 Ash Tank 1	637 Dahlia Tank 1
351 Ash Tank 2	637 Dahlia Tank 2
355 Ash Tank 1	641 Dahlia
355 Ash Tank 2	642 Dahlia Tank 1
360 Aspen	642 Dahlia Tank 2

Laurel Bay Underground Storage Tank Assessment Reports for: (153 addresses/161 tanks) cont.

655 Camellia	920 Albacore
662 Camellia	922 Barracuda Tank 1
683 Camellia	922 Barracuda Tank 2
684 Camellia	924 Albacore
689 Abelia	925 Albacore
694 Abelia	926 Albacore
695 Abelia	930 Albacore
741 Blue Bell	931 Albacore
742 Blue Bell	933 Albacore
755 Althea	936 Albacore
757 Althea	938 Albacore
776 Laurel Bay	939 Albacore
777 Azalea	940 Albacore
779 Laurel Bay	1010 Foxglove
781 Laurel Bay	1066 Gardenia
802 Azalea	1068 Gardenia
816 Azalea	1071 Heather Tank 2
822 Azalea	1100 Iris Tank 2
823 Azalea	1128 Iris
825 Azalea	1178 Bobwhite
828 Azalea	1204 Cardinal
837 Azalea	1208 Cardinal
851 Dolphin	1209 Cardinal
856 Dolphin	1210 Cardinal
857 Dolphin	1215 Cardinal
861 Dolphin	1216 Cardinal
864 Dolphin	1217 Cardinal Tank 1
868 Dolphin	1217 Cardinal Tank 2
872 Dolphin	1233 Dove
879 Cobia	1244 Dove
886 Cobia	1250 Dove
888 Cobia	1252 Dove
889 Cobia	1254 Dove
901 Barracuda	1256 Dove
902 Barracuda	1258 Dove
903 Barracuda	1263 Dove
904 Barracuda	1269 Dove
909 Barracuda	1276 Dove
910 Barracuda	1283 Dove
914 Barracuda	1285 Dove
915 Barracuda	1288 Eagle

Laurel Bay Underground Storage Tank Assessment Reports for: (153 addresses/161 tanks) cont.

1296 Eagle	1330 Albatross
1307 Eagle	1331 Albatross
1321 Albatross	1333 Albatross
1322 Albatross	1334 Albatross
1327 Albatross	1335 Albatross
1328 Albatross	