SUMMARY REPORT
563 WEST LAUREL BAY BOULEVARD (FORMERLY 502 WEST LAUREL BAY BOULEVARD)

LAUREL BAY MILITARY HOUSING AREA

MARINE CORPS AIR STATION BEAUFORT

BEAUFORT, SC

Revision: 0 Prepared for:

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

and



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

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Prepared by:



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

Contract Number: N62470-14-D-9016

CTO WE52

JUNE 2021



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List of Acronyms

bgs below ground surface

BTEX benzene, toluene, ethylbenzene, and xylenes

CTO Contract Task Order

COPC constituents of potential concern

IDIQ Indefinite Delivery, Indefinite Quantity

IGWA Initial Groundwater Assessment

JV Joint Venture

LBMH Laurel Bay Military Housing MCAS Marine Corps Air Station

NAVFAC Mid-Lant Naval Facilities Engineering Command Mid-Atlantic

NFA No Further Action

PAH polynuclear aromatic hydrocarbon

QAPP Quality Assurance Program Plan

RBSL risk-based screening level

SCDHEC South Carolina Department of Health and Environmental Control

Site LBMH area at MCAS Beaufort, South Carolina

UST underground storage tank

VISL vapor intrusion screening level



1.0 INTRODUCTION

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

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

This report summarizes the results the environmental investigation activities associated with the storage of home heating oil and the potential release of petroleum constituents at the referenced property. Based on the results of the investigation, a No Further Action (NFA) determination has been made by the South Carolina Department of Health and Environmental Control (SCDHEC) for 563 West Laurel Bay Boulevard (Formerly 502 West Laurel Bay Boulevard). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

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

1.1 Background Information

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



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

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

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

1.2 UST Removal and Assessment Process

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

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

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



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

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

2.0 SAMPLING ACTIVITIES AND RESULTS

The following section presents the sampling activities and associated results for 563 West Laurel Bay Boulevard (Formerly 502 West Laurel Bay Boulevard). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 502 West Laurel Bay Boulevard* (MCAS Beaufort, 2012). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On June 5, 2012, a single 280 gallon heating oil UST was removed from the rear patio area at 563 West Laurel Bay Boulevard (Formerly 502 West Laurel Bay Boulevard). The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). The UST was removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of the UST was 5'10" 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 563 West Laurel Bay Boulevard (Formerly 502 West Laurel Bay Boulevard) were less than the SCDHEC RBSLs, which indicated the subsurface was not impacted by COPCs associated with the former UST at concentrations that presented a potential risk to human health and the environment.

3.0 PROPERTY STATUS

Based on the analytical results for soil, SCDHEC made the determination that NFA was required for 563 West Laurel Bay Boulevard (Formerly 502 West Laurel Bay Boulevard). This NFA determination was obtained in a letter dated May 15, 2014. SCDHEC's NFA letter is provided in Appendix C.

4.0 REFERENCES

Marine Corps Air Station Beaufort, 2012. South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 502 West Laurel Bay Boulevard, Laurel Bay Military Housing Area, August 2012.



- 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 563 West Laurel Bay Boulevard (Formerly 502 West Laurel Bay Boulevard)

Laurel Bay Military Housing Area Marine Corps Air Station Beaufort Beaufort, South Carolina

Constituent	SCDHEC RBSLs (1)	Results Sample Collected 06/05/12						
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 Anal	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

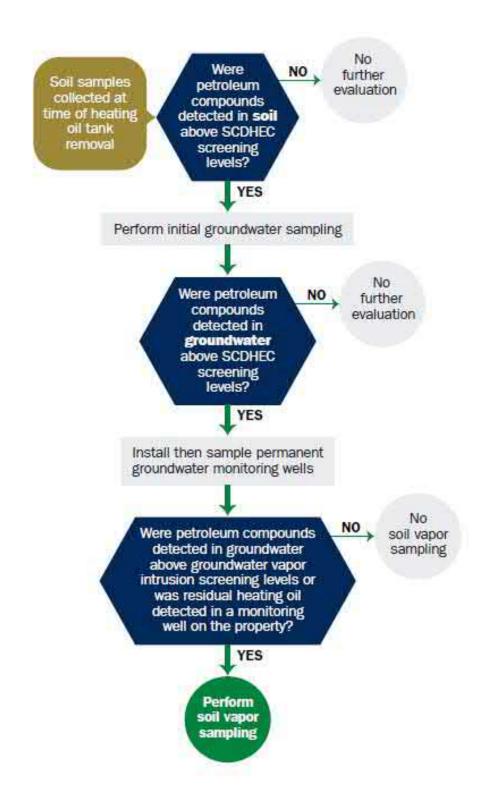
ND - not detected at the reporting limit (or method detection limit if shown on the laboratory report). The laboratory report is provided in Appendix B.

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

Appendix A Multi-Media Selection Process for LBMH





Appendix A - Multi-Media Selection Process for LBMH

Appendix B UST Assessment Report



Attachment 1

South Carolina Department of Health and Environmental Control (SCDHEC)

Underground Storage Tank (UST) Assessment Report



Submit Completed Form To: UST Program SCDHEC 2600 Bull Street Columbia, South Carolina 29201 Telephone (803) 896-7957

I. OWNERSHIP OF UST (S)

MCAS Beaufort, Co	mmanding Officer Attn: NF	REAO (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
502 Laurel Bay Blvd., 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)						

		502 LaurelBB
Proc	duct(ex. Gas, Kerosene)	Heating oil
	pacity(ex. 1k, 2k)	280 gal
Age	,	Late 1950s
Con	astruction Material(ex. Steel, FRP)	Steel
Moi	nth/Year of Last Use	Mid 1980s
Dep	oth (ft.) To Base of Tank	5'10"
Spil	l Prevention Equipment Y/N	No
Ove	erfill Prevention Equipment Y/N	No
Met	thod of Closure Removed/Filled	Removed
Date	e Tanks Removed/Filled	6/5/2012
Visi	ible Corrosion or Pitting Y/N	Yes
Visi	ible Holes Y/N	Yes
U:	shod of disposal for any USTs removed from the ST 502LaurelBB was removed from tubtitle "D" landfill. See Attachm	the ground and disposed at a

VII. PIPING INFORMATION

	502
	LaurelBB
	Steel
Construction Material(ex. Steel, FRP)	& Copper
Distance from UST to Dispenser	N/A
Number of Dispensers	N/A
Type of System Pressure or Suction	Suction
Was Piping Removed from the Ground? Y/N	No
Visible Corrosion or Pitting Y/N	Yes
Visible Holes Y/N	No
	Late 1950s
Age	<u> </u>
If any corrosion, pitting, or holes were observed	d, describe the location and extent for each piping run.
Corrosion and pitting were fou	nd on the surface of the steel vent
pipe. Copper supply and return	lines were sound.
	CRIPTION AND HISTORY constructed of single wall steel
and formerly contained fuel oil	
installed in the late 1950s and	l 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,		Х	
mild, etc.) C. Was water present in the UST excavation, soil borings, or trenches?		х	
If yes, how far below land surface (indicate location and depth)? D. Did contaminated soils remain stockpiled on site after closure?		Х	
If yes, indicate the stockpile location on the site map. Name of DHEC representative authorizing soil removal:			
E. Was a petroleum sheen or free product detected on any excavation or boring waters? If yes, indicate location and thickness.		Х	

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#
502 LaurelBB	Excav at fill end	Soil	Sandy	5'10"	6/5/12 1400 hrs	P. Shaw	
			*				
					<u></u>		
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 <u>and</u> 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.

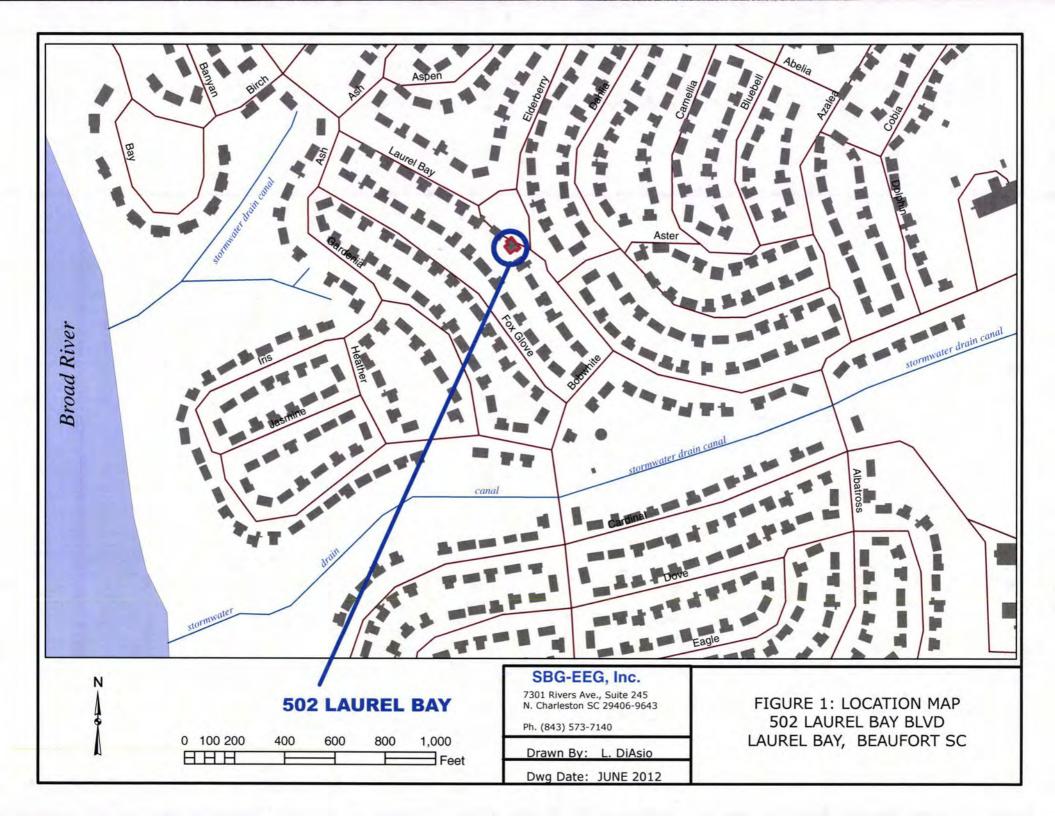
XII. RECEPTORS

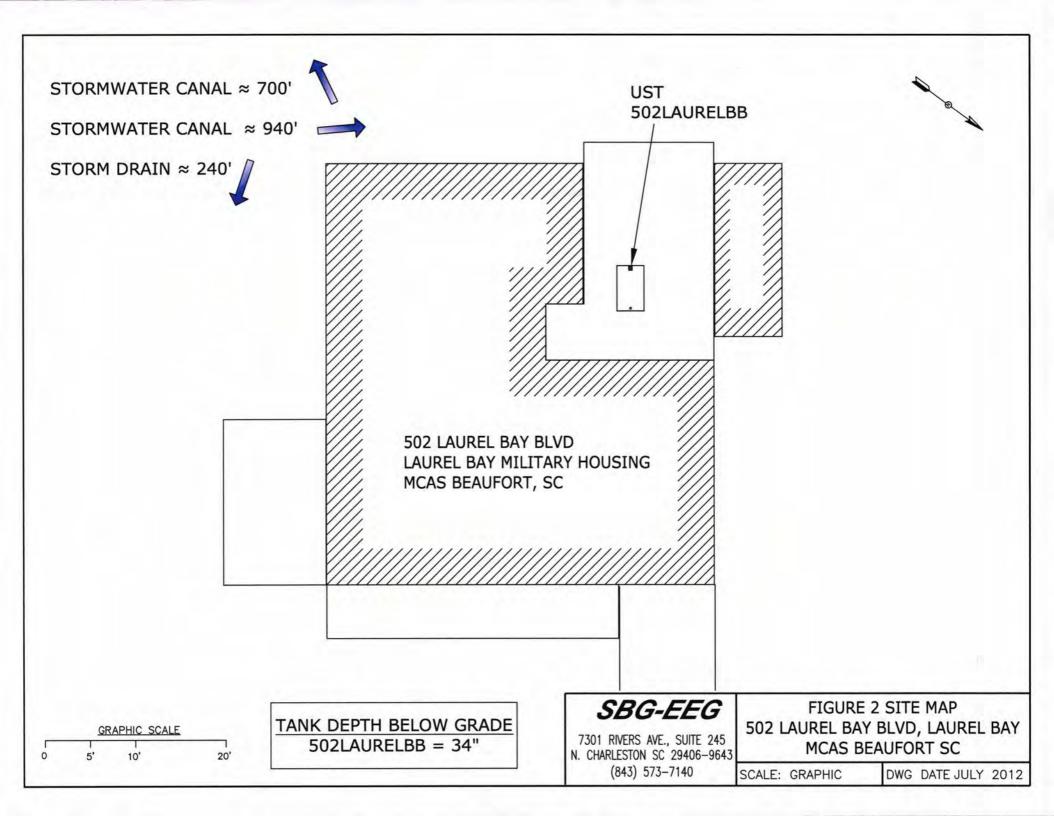
		Yes	No
A.	, F, F,	*X	
	1000 feet of the UST system? *Two stormwater drainage	cana	ls
	If yes, indicate type of receptor, distance, and direction on site map.		
B.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?		X
	If yes, indicate type of well, distance, and direction on site map.		
C.	Are there any underground structures (e.g., basements) Located within 100 feet of the UST system?		X
	If yes, indicate type of structure, distance, and direction on site map.		
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	*X	
	contamination? *Sewer, water, electric	ity	
	cable, fiber optic & st If yes, indicate the type of utility, distance, and direction on the site map.	orm d	lrain
<u> </u>	TT		<u> </u>
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?		Х
	If yes, indicate the area of contaminated soil on the site map.		

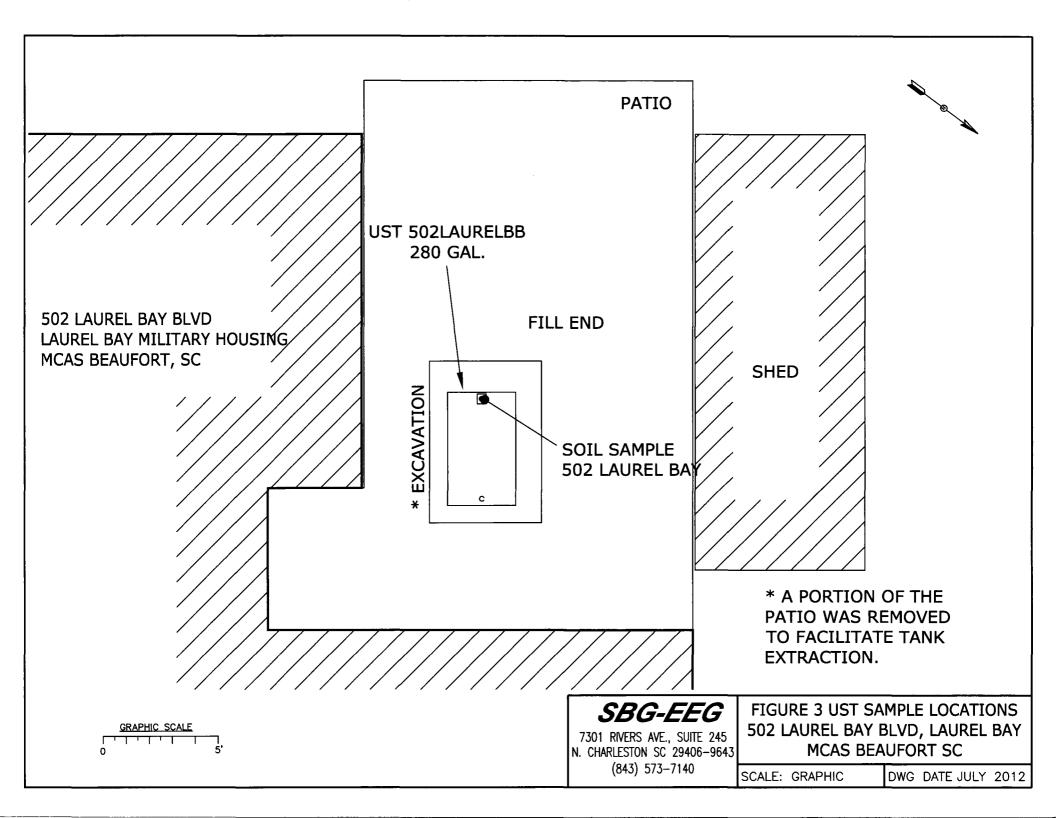
XIII. SITE MAP

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)









Picture 1: Location of UST 502LaurelBB.



Picture 2: Excavation of UST 502LaurelBB.

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.

			 I	T	T	
CoC UST	502LaurelBB					
Benzene	ND					
Toluene	ND					
Ethylbenzene	ND					
Xylenes	ND					
Naphthalene	ND					
Benzo (a) anthracene	ND					
Benzo (b) fluoranthene	Benzo (b) fluoranthene ND					
Benzo (k) fluoranthene	ND					
Chrysene	ND					
Dibenz (a, h) anthracene	ND					
TPH (EPA 3550)						
СоС						
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: NWF0938

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: 6/21/2012 10:15:05 AM

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

This report has been electronically signed and authorized by the signatory. Electronic signature is

Results relate only to the items tested and the sample(s) as received by the laboratory.

intended to be the legally binding equivalent of a traditionally handwritten signature.

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ain of Custody	

Sample Summary

Client: EEG - Small Business Group, Inc. (2449)

Project/Site: [none]

TestAmerica Job ID: NWF0938

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
NWF0938-01	510 Laurel Bay	Soil	06/04/12 14:15	06/09/12 08:30	
NWF0938-02	502 Laurel Bay	Soil	06/05/12 14:00	06/09/12 08:30	

Definitions/Glossary

Client: EEG - Small Business Group, Inc. (2449)

Project/Site: [none]

TestAmerica Job ID: NWF0938

Qualifiers

GCMS Volatiles

Qualifier Qualifier Description

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

GCMS Semivolatiles

Qualifier Qualifier Description

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

QC

RL

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
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
POL	Practical Quantitation Limit

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)

TEQ Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

Quality Control

Reporting Limit

Client Sample Results

Client: EEG - Small Business Group, Inc. (2449)

Project/Site: [none]

Analyte

% Dry Solids

Lab Sample ID: NWF0938-01

TestAmerica Job ID: NWF0938

Matrix: Soil

Percent Solids: 91.6

Client Sample ID: 510 Laurel Bay

Date Collected: 06/04/12 14:15 Date Received: 06/09/12 08:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	ND		0.00231	0.00127	mg/kg dry	o	06/15/12 08:51	06/15/12 18:14	1.0
Ethylbenzene	ND		0.00231	0.00127	mg/kg dry	ø	06/15/12 08:51	06/15/12 18:14	1.0
Naphthalene	ND		0.00578	0.00289	mg/kg dry	益	06/15/12 08:51	06/15/12 18:14	1.0
Toluene	ND		0.00231	0.00127	mg/kg dry	\$	06/15/12 08:51	06/15/12 18:14	1.0
Xylenes, total	ND		0.00578	0.00289	mg/kg dry		06/15/12 08:51	06/15/12 18:14	1.0
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4	107		70 - 130				06/15/12 08:51	06/15/12 18:14	1.0
Dibromofluoromethane	96		70 - 130				06/15/12 08:51	06/15/12 18:14	1.0
Toluene-d8	106		70 - 130				06/15/12 08:51	06/15/12 18:14	1.0
4-Bromofluorobenzene	108		70 - 130				06/15/12 08:51	06/15/12 18:14	1.0
Method: SW846 8270D - Po	lyaromatic Hydroca	rbons by EF	PA 8270D						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Acenaphthene	ND		0.0716	0.0364	mg/kg dry	0	06/09/12 19:00	06/11/12 22:19	1.0
Acenaphthylene	ND		0.0716	0.0364	mg/kg dry	ø	06/09/12 19:00	06/11/12 22:19	1.0
Anthracene	ND		0.0716	0.0364	mg/kg dry	300	06/09/12 19:00	06/11/12 22:19	1.0
Benzo (a) anthracene	0.0781		0.0716	0.0364	mg/kg dry	***	06/09/12 19:00	06/11/12 22:19	1.0
Benzo (a) pyrene	ND		0.0716	0.0364	mg/kg dry	CF	06/09/12 19:00	06/11/12 22:19	1.0
Benzo (b) fluoranthene	0.0595	J	0.0716	0.0364	mg/kg dry	*	06/09/12 19:00	06/11/12 22:19	1.0
Benzo (g,h,i) perylene	ND		0.0716	0.0364	mg/kg dry	*	06/09/12 19:00	06/11/12 22:19	1.0
Benzo (k) fluoranthene	ND		0.0716	0.0364	mg/kg dry	0	06/09/12 19:00	06/11/12 22:19	1.0
Chrysene	0.0663	J	0.0716	0.0364	mg/kg dry	0	06/09/12 19:00	06/11/12 22:19	1.0
Dibenz (a,h) anthracene	ND		0.0716	0.0364	mg/kg dry	亞	06/09/12 19:00	06/11/12 22:19	1.0
Fluoranthene	0.145		0.0716	0.0364	mg/kg dry	章	06/09/12 19:00	06/11/12 22:19	1.0
Fluorene	ND		0.0716	0.0364	mg/kg dry	0	06/09/12 19:00	06/11/12 22:19	1.0
ndeno (1,2,3-cd) pyrene	ND		0.0716	0.0364	mg/kg dry	Ø	06/09/12 19:00	06/11/12 22:19	1.0
Naphthalene	ND		0.0716	0.0364	mg/kg dry	\$2	06/09/12 19:00	06/11/12 22:19	1.0
Phenanthrene	ND		0.0716	0.0364	mg/kg dry	0	06/09/12 19:00	06/11/12 22:19	1.0
Pyrene	0.111		0.0716	0.0364	mg/kg dry	₩.	06/09/12 19:00	06/11/12 22:19	1.0
1-Methylnaphthalene	ND		0.0716	0.0364	mg/kg dry	0	06/09/12 19:00	06/11/12 22:19	1.0
2-Methylnaphthalene	ND		0.0716	0.0364	mg/kg dry	\$	06/09/12 19:00	06/11/12 22:19	1.0
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
Terphenyl-d14	58		18 - 120				06/09/12 19:00	06/11/12 22:19	1.0
2-Fluorobiphenyl	45		14 - 120				06/09/12 19:00	06/11/12 22:19	1.0
Nitrobenzene-d5	41		17 - 120				06/09/12 19:00	06/11/12 22:19	1.0

Analyzed

06/11/12 06:32

Dil Fac

1.00

RL

0.500

Result Qualifier

91.6

MDL Unit

0.500 %

D

Prepared

06/09/12 14:49

Client Sample Results

Client: EEG - Small Business Group, Inc. (2449)

Project/Site: [none]

Client Sample ID: 502 Laurel Bay

Date Collected: 06/05/12 14:00 Date Received: 06/09/12 08:30

Lab Sample ID: NWF0938-02

Matrix: Soil Percent Solids: 88.1

TestAmerica Job ID: NWF0938

Method: SW846 8260B - Vola Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00244	0.00134	mg/kg dry	0	06/15/12 08:51	06/15/12 18:44	1.00
Ethylbenzene	ND		0.00244	0.00134		305	06/15/12 08:51	06/15/12 18:44	1.00
Naphthalene	ND		0.00610	0.00305	mg/kg dry	32	06/15/12 08:51	06/15/12 18:44	1.00
Toluene	ND		0.00244	0.00134	mg/kg dry	0	06/15/12 08:51	06/15/12 18:44	1.00
Xylenes, total	ND		0.00610	0.00305	mg/kg dry	٥	06/15/12 08:51	06/15/12 18:44	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	106		70 - 130				06/15/12 08:51	06/15/12 18:44	1.00
Dibromofluoromethane	95		70 - 130				06/15/12 08:51	06/15/12 18:44	1.00
Toluene-d8	106		70 - 130				06/15/12 08:51	06/15/12 18:44	1.00
4-Bromofluorobenzene	122		70 - 130				06/15/12 08:51	06/15/12 18:44	1.00
Method: SW846 8270D - Poly	yaromatic Hydroca	rbons by El	PA 8270D						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0754	0.0383	mg/kg dry	-02	06/09/12 19:00	06/11/12 22:39	1.00
Acenaphthylene	ND		0.0754	0.0383	mg/kg dry	*	06/09/12 19:00	06/11/12 22:39	1.00
Anthracene	ND		0.0754	0.0383	mg/kg dry	益	06/09/12 19:00	06/11/12 22:39	1.00
Benzo (a) anthracene	ND		0.0754	0.0383	mg/kg dry	40	06/09/12 19:00	06/11/12 22:39	1.00
Benzo (a) pyrene	ND		0.0754	0.0383	mg/kg dry	0	06/09/12 19:00	06/11/12 22:39	1.00
Benzo (b) fluoranthene	ND		0.0754	0.0383	mg/kg dry	0	06/09/12 19:00	06/11/12 22:39	1.00
Benzo (g,h,i) perylene	ND		0.0754	0.0383	mg/kg dry	0	06/09/12 19:00	06/11/12 22:39	1.00
Benzo (k) fluoranthene	ND		0.0754	0.0383	mg/kg dry	32	06/09/12 19:00	06/11/12 22:39	1.00
Chrysene	ND		0.0754	0.0383	mg/kg dry	章	06/09/12 19:00	06/11/12 22:39	1.00
Dibenz (a,h) anthracene	ND		0.0754	0.0383	mg/kg dry	*	06/09/12 19:00	06/11/12 22:39	1.00
Fluoranthene	ND		0.0754	0.0383	mg/kg dry	22	06/09/12 19:00	06/11/12 22:39	1.00
Fluorene	ND		0.0754	0.0383	mg/kg dry	0	06/09/12 19:00	06/11/12 22:39	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0754	0.0383	mg/kg dry	42	06/09/12 19:00	06/11/12 22:39	1.00
Naphthalene	ND		0.0754	0.0383	mg/kg dry	32	06/09/12 19:00	06/11/12 22:39	1.00
Phenanthrene	ND		0.0754	0.0383	mg/kg dry	302	06/09/12 19:00	06/11/12 22:39	1.00
Pyrene	ND		0.0754	0.0383	mg/kg dry	*	06/09/12 19:00	06/11/12 22:39	1.00
1-Methylnaphthalene	ND		0.0754	0.0383	mg/kg dry	**	06/09/12 19:00	06/11/12 22:39	1.00
2-Methylnaphthalene	ND		0.0754	0.0383	mg/kg dry	Ø	06/09/12 19:00	06/11/12 22:39	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Terphenyl-d14	74		18 - 120				06/09/12 19:00	06/11/12 22:39	1.00
2-Fluorobiphenyl	65		14 - 120				06/09/12 19:00	06/11/12 22:39	1.00
Nitrobenzene-d5	59		17 - 120				06/09/12 19:00	06/11/12 22:39	1.00
Method: SW-846 - General C	hemistry Paramete	ers							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client: EEG - Small Business Group, Inc. (2449)

Project/Site: [none]

TestAmerica Job ID: NWF0938

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

Lab Sample ID: 12F2529-BLK1

Matrix: Soil

Analysis Batch: V009914

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 12F2529_P

	Blank	Blank							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.00110	mg/kg wet		06/15/12 08:51	06/15/12 11:18	1.00
Ethylbenzene	ND		0.00200	0.00110	mg/kg wet		06/15/12 08:51	06/15/12 11:18	1.00
Naphthalene	ND		0.00500	0.00250	mg/kg wet		06/15/12 08:51	06/15/12 11:18	1.00
Toluene	ND		0.00200	0.00110	mg/kg wet		06/15/12 08:51	06/15/12 11:18	1.00
Xylenes, total	ND		0.00500	0.00250	mg/kg wet		06/15/12 08:51	06/15/12 11:18	1.00
	Blank	Blank							

	Blank Blank				
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	100	70 - 130	06/15/12 08:51	06/15/12 11:18	1.00
Dibromofluoromethane	94	70 - 130	06/15/12 08:51	06/15/12 11:18	1.00
Toluene-d8	102	70 - 130	06/15/12 08:51	06/15/12 11:18	1.00
4-Bromofluorobenzene	102	70 - 130	06/15/12 08:51	06/15/12 11:18	1.00

Lab Sample ID: 12F2529-BLK2

Matrix: Soil

Analysis Batch: V009914

Client Sample ID: Method Blank Prep Type: Total

Prep Batch: 12F2529_P

	Blank	Blank							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.00110	mg/kg wet		06/15/12 08:51	06/15/12 11:48	1.00
Ethylbenzene	ND		0.00200	0.00110	mg/kg wet		06/15/12 08:51	06/15/12 11:48	1.00
Naphthalene	ND		0.00500	0.00250	mg/kg wet		06/15/12 08:51	06/15/12 11:48	1.00
Toluene	ND		0.00200	0.00110	mg/kg wet		06/15/12 08:51	06/15/12 11:48	1.00
Xylenes, total	ND		0.00500	0.00250	mg/kg wet		06/15/12 08:51	06/15/12 11:48	1.00

	Blank	Blank				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	98		70 - 130	06/15/12 08:51	06/15/12 11:48	1.00
Dibromofluoromethane	88		70 - 130	06/15/12 08:51	06/15/12 11:48	1.00
Toluene-d8	104		70 - 130	06/15/12 08:51	06/15/12 11:48	1.00
4-Bromofluorobenzene	102		70 - 130	06/15/12 08:51	06/15/12 11:48	1.00

Lab Sample ID: 12F2529-BS1

Matrix: Soil

Analysis Batch: V009914

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 12F2529_P

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	50.0	49.5		ug/kg		99	75 - 127	
Ethylbenzene	50.0	50.1		ug/kg		100	80 - 134	
Naphthalene	50.0	51.5		ug/kg		103	69 - 150	
Toluene	50.0	49.0		ug/kg		98	80 - 132	
Xylenes, total	150	156		ug/kg		104	80 - 137	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4	99		70 - 130
Dibromofluoromethane	95		70 - 130
Toluene-d8	102		70 - 130
4-Bromofluorobenzene	102		70 - 130

Client: EEG - Small Business Group, Inc. (2449)

Project/Site: [none]

TestAmerica Job ID: NWF0938

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

Lab Sample ID: 12F2529-BSD1

Matrix: Soil

Analysis Batch: V009914

Client Sample ID: Lab Control Sample Dup

Prep Type: Total

Prep Batch: 12F2529_P

	Spike	LCS Dup	LCS Dup				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	50.0	52.8		ug/kg		106	75 - 127	6	50
Ethylbenzene	50.0	50.7		ug/kg		101	80 - 134	1	50
Naphthalene	50.0	55.8		ug/kg		112	69 - 150	8	50
Toluene	50.0	51.0		ug/kg		102	80 - 132	4	50
Xylenes, total	150	159		ug/kg		106	80 - 137	2	50

	LCS Dup	LCS Dup	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4	103		70 - 130
Dibromofluoromethane	96		70 - 130
Toluene-d8	100		70 - 130
4-Bromofluorobenzene	102		70 - 130

Lab Sample ID: 12F2529-MS1

Matrix: Soil

Analysis Batch: V009914

Client Sample ID: Matrix Spike

Prep Type: Total

Prep Batch: 12F2529 P

	Sample	Sample	Spike	Matrix Spike	Matrix Spi	ke			%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	ND		0.0628	0.0765		mg/kg dry	0	122	31 - 143	
Ethylbenzene	ND		0.0628	0.0773		mg/kg dry	Ø	123	23 - 161	
Naphthalene	ND		0.0628	0.0792		mg/kg dry	0	126	10 - 176	
Toluene	ND		0.0628	0.0801		mg/kg dry	O	128	30 - 155	
Xylenes, total	ND		0.188	0.246		mg/kg dry	0	131	25 - 162	

Matrix	Spike	Matrix	Spike

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4	105		70 - 130
Dibromofluoromethane	97		70 - 130
Toluene-d8	107		70 - 130
4-Bromofluorobenzene	98		70 - 130

Lab Sample ID: 12F2529-MSD1

Matrix: Soil

Analysis Batch: V009914

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total

Prep Batch: 12F2529 P

Sample Sample Spike ıtrix Spike Dup Matrix Spike Dur %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit O. Benzene ND 0.0608 0.121 M7 mg/kg dry 199 31 - 143 45 50 Ethylbenzene ND 0.0608 0.123 M7 mg/kg dry 1 202 23 - 161 46 50 Naphthalene ND 0.0608 0.121 M7 mg/kg dry 0 199 10 - 176 42 50 ¢ Toluene ND 0.0608 0.127 M7 mg/kg dry 209 30 - 155 45 50 Xylenes, total ND 0.182 0.390 M7 mg/kg dry 214 25 - 162 45 50

Matrix Spike Dup Matrix Spike Dup

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4	105		70 - 130
Dibromofluoromethane	93		70 - 130
Toluene-d8	107		70 - 130
4-Bromofluorobenzene	106		70 - 130

Client: EEG - Small Business Group, Inc. (2449)

Project/Site: [none]

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

Lab Sample ID: 12F1825-BLK1

Matrix: Soil

Analysis Batch: 12F1825

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 12F1825_P

	Blank	Blank							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0340	mg/kg wet		06/09/12 19:00	06/11/12 21:19	1.00
Acenaphthylene	ND		0.0670	0.0340	mg/kg wet		06/09/12 19:00	06/11/12 21:19	1.00
Anthracene	ND		0.0670	0.0340	mg/kg wet		06/09/12 19:00	06/11/12 21:19	1.00
Benzo (a) anthracene	ND		0.0670	0.0340	mg/kg wet		06/09/12 19:00	06/11/12 21:19	1.00
Benzo (a) pyrene	ND		0.0670	0.0340	mg/kg wet		06/09/12 19:00	06/11/12 21:19	1.00
Benzo (b) fluoranthene	ND		0.0670	0.0340	mg/kg wet		06/09/12 19:00	06/11/12 21:19	1.00
Benzo (g,h,i) perylene	ND		0.0670	0.0340	mg/kg wet		06/09/12 19:00	06/11/12 21:19	1.00
Benzo (k) fluoranthene	ND		0.0670	0.0340	mg/kg wet		06/09/12 19:00	06/11/12 21:19	1.00
Chrysene	ND		0.0670	0.0340	mg/kg wet		06/09/12 19:00	06/11/12 21:19	1.00
Dibenz (a,h) anthracene	ND		0.0670	0.0340	mg/kg wet		06/09/12 19:00	06/11/12 21:19	1.00
Fluoranthene	ND		0.0670	0.0340	mg/kg wet		06/09/12 19:00	06/11/12 21:19	1.00
Fluorene	ND		0.0670	0.0340	mg/kg wet		06/09/12 19:00	06/11/12 21:19	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0670	0.0340	mg/kg wet		06/09/12 19:00	06/11/12 21:19	1.00
Naphthalene	ND		0.0670	0.0340	mg/kg wet		06/09/12 19:00	06/11/12 21:19	1.00
Phenanthrene	ND		0.0670	0.0340	mg/kg wet		06/09/12 19:00	06/11/12 21:19	1.00
Pyrene	ND		0.0670	0.0340	mg/kg wet		06/09/12 19:00	06/11/12 21:19	1.00
1-Methylnaphthalene	ND		0.0670	0.0340	mg/kg wet		06/09/12 19:00	06/11/12 21:19	1.00
2-Methylnaphthalene	ND		0.0670	0.0340	mg/kg wet		06/09/12 19:00	06/11/12 21:19	1.00
	Blank	Blank							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Terphenyl-d14	68		18 - 120				06/09/12 19:00	06/11/12 21:19	1.00

14 - 120

17 - 120

51

51

Lab Sample ID: 12F1825-BS1

Matrix: Soil

2-Fluorobiphenyl

Nitrobenzene-d5

Analysis Batch: 12F1825

Client Sample ID: Lab Control Sample

06/11/12 21:19

06/11/12 21:19

06/09/12 19:00

06/09/12 19:00

Prep Type: Total

1.00

1.00

Prep Batch: 12F1825_P

Analysis Batch: 12F1825	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acenaphthene	1.67	1.36		mg/kg wet		82	36 - 120
Acenaphthylene	1.67	1.49		mg/kg wet		90	38 - 120
Anthracene	1.67	1.54		mg/kg wet		92	46 - 124
Benzo (a) anthracene	1.67	1.54		mg/kg wet		93	45 - 120
Benzo (a) pyrene	1.67	1.66		mg/kg wet		99	45 - 120
Benzo (b) fluoranthene	1.67	1.49		mg/kg wet		89	42 - 120
Benzo (g,h,i) perylene	1.67	1.54		mg/kg wet		92	38 - 120
Benzo (k) fluoranthene	1.67	1.54		mg/kg wet		92	42 - 120
Chrysene	1.67	1.47		mg/kg wet		88	43 - 120
Dibenz (a,h) anthracene	1.67	1.56		mg/kg wet		93	32 - 128
Fluoranthene	1.67	1.58		mg/kg wet		95	46 - 120
Fluorene	1.67	1.57		mg/kg wet		94	42 - 120
Indeno (1,2,3-cd) pyrene	1.67	1.53		mg/kg wet		92	41 - 121
Naphthalene	1.67	1.51		mg/kg wet		90	32 - 120
Phenanthrene	1.67	1.50		mg/kg wet		90	45 - 120
Pyrene	1.67	1.50		mg/kg wet		90	43 - 120
1-Methylnaphthalene	1.67	1.05		mg/kg wet		63	32 - 120
2-Methylnaphthalene	1.67	1.41		mg/kg wet		85	28 - 120

Client: EEG - Small Business Group, Inc. (2449)

Project/Site: [none]

TestAmerica Job ID: NWF0938

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

Lab Sample ID: 12F1825-BS1

Matrix: Soil

Analysis Batch: 12F1825

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 12F1825_P

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
Terphenyl-d14	86		18 - 120
2-Fluorobiphenyl	66		14 - 120
Nitrobenzene-d5	63		17 - 120

Lab Sample ID: 12F1825-MS1 Client Sample ID: 510 Laurel Bay

Matrix: Soil

Analysis Batch: 12F1825

Prep Type: Total

Prep Batch: 12F1825_P

	Sample	Sample	Spike	Matrix Spike	Matrix Spi	ke			%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acenaphthene	ND		1.81	1.47		mg/kg dry	0	81	19 - 120
Acenaphthylene	ND		1.81	1.60		mg/kg dry	0	89	25 - 120
Anthracene	ND		1.81	1.61		mg/kg dry	*	89	28 - 125
Benzo (a) anthracene	0.0781		1.81	1.60		mg/kg dry	0	84	23 - 120
Benzo (a) pyrene	ND		1.81	1.76		mg/kg dry	**	97	15 - 128
Benzo (b) fluoranthene	0.0595	J	1.81	1.78		mg/kg dry		95	12 - 133
Benzo (g,h,i) perylene	ND		1.81	1.54		mg/kg dry	0	85	22 - 120
Benzo (k) fluoranthene	ND		1.81	1.49		mg/kg dry	0	82	28 - 120
Chrysene	0.0663	J	1.81	1.53		mg/kg dry	**	81	20 - 120
Dibenz (a,h) anthracene	ND		1.81	1.57		mg/kg dry	*	87	12 - 128
Fluoranthene	0.145		1.81	1.68		mg/kg dry	0	85	10 - 143
Fluorene	ND		1.81	1.67		mg/kg dry	*	92	20 - 120
Indeno (1,2,3-cd) pyrene	ND		1.81	1.56		mg/kg dry	*	86	22 - 121
Naphthalene	ND		1.81	1.61		mg/kg dry	*	89	10 - 120
Phenanthrene	ND		1.81	1.58		mg/kg dry	0	87	21 - 122
Pyrene	0.111		1.81	1.53		mg/kg dry	0	78	20 - 123
1-Methylnaphthalene	ND		1.81	1.15		mg/kg dry	302	64	10 - 120
2-Methylnaphthalene	ND		1.81	1.52		mg/kg dry	卒	84	13 - 120

Matrix	Spike	Matrix	Spike	

Surrogate	%Recovery	Qualifier	Limits
Terphenyl-d14	78		18 - 120
2-Fluorobiphenyl	64		14 - 120
Nitrobenzene-d5	62		17 - 120

Lab Sample ID: 12F1825-MSD1

Matrix: Soil

Analysis Batch: 12F1825

Client Sample ID: 510 Laurel Bay

Prep Type: Total

Prep Batch: 12F1825 P

Allalysis Batch. 12F 1025									Frep Batc	II. 12F I	023_F
	Sample	Sample	Spike	ıtrix Spike Dup	Matrix Spi	ke Duj			%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthene	ND		1.80	1.45		mg/kg dry	**	81	19 - 120	1	50
Acenaphthylene	ND		1.80	1.53		mg/kg dry	\$	85	25 - 120	4	50
Anthracene	ND		1.80	1.60		mg/kg dry	*	89	28 - 125	1	49
Benzo (a) anthracene	0.0781		1.80	1.63		mg/kg dry	•	87	23 - 120	2	50
Benzo (a) pyrene	ND		1.80	1.73		mg/kg dry	**	96	15 - 128	2	50
Benzo (b) fluoranthene	0.0595	J	1.80	1.62		mg/kg dry	**	87	12 - 133	10	50
Benzo (g,h,i) perylene	ND		1.80	1.51		mg/kg dry	Ø	84	22 - 120	2	50
Benzo (k) fluoranthene	ND		1.80	1.68		mg/kg dry	*	94	28 - 120	12	45
Chrysene	0.0663	J	1.80	1.54		mg/kg dry	*	82	20 - 120	0.6	49
Dibenz (a,h) anthracene	ND		1.80	1.60		mg/kg dry		89	12 - 128	2	50
Fluoranthene	0.145		1.80	1.69		mg/kg dry	- \$	86	10 - 143	0.6	50

Client: EEG - Small Business Group, Inc. (2449)

Project/Site: [none]

TestAmerica Job ID: NWF0938

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

Lab Sample ID: 12F1825-MSD1

Matrix: Soil

Analysis Batch: 12F1825

Client Sample ID: 510 Laurel Bay

Prep Type: Total

Prep Batch: 12F1825_P

Client Sample ID: Duplicate

	Sample	Sample	Spike	ıtrix Spike Dup	Matrix Spi	ke Duş			%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Fluorene	ND		1.80	1.64		mg/kg dry	0	91	20 - 120	2	50
Indeno (1,2,3-cd) pyrene	ND		1.80	1.58		mg/kg dry	0	88	22 - 121	1	50
Naphthalene	ND		1.80	1.49		mg/kg dry	*	83	10 - 120	8	50
Phenanthrene	ND		1.80	1.57		mg/kg dry	*	87	21 - 122	0.9	50
Pyrene	0.111		1.80	1.53		mg/kg dry		79	20 - 123	0.4	50
1-Methylnaphthalene	ND		1.80	1.06		mg/kg dry	章	59	10 - 120	9	50
2-Methylnaphthalene	ND		1.80	1.41		mg/kg dry	0	78	13 - 120	8	50

Matrix Spike Dup Matrix Spike Dup

Surrogate	%Recovery	Qualifier	Limits
Terphenyl-d14	80		18 - 120
2-Fluorobiphenyl	60		14 - 120
Nitrobenzene-d5	56		17 - 120

Method: SW-846 - General Chemistry Parameters

Lab Sample ID: 12F1804-DUP1

Matrix: Soil							Prep Type	: Total
Analysis Batch: 12F1804							Prep Batch: 12F1	804_P
	Sample	Sample	Duplicate	Duplicate				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
% Dry Solids	96.4		96.9		%		0.5	20

QC Association Summary

Client: EEG - Small Business Group, Inc. (2449)

Project/Site: [none]

TestAmerica Job ID: NWF0938

GCMS Volatiles

Analysis Batch: V009914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12F2529-BLK1	Method Blank	Total	Soil	SW846 8260B	12F2529_P
12F2529-BLK2	Method Blank	Total	Soil	SW846 8260B	12F2529_P
12F2529-BS1	Lab Control Sample	Total	Soil	SW846 8260B	12F2529_P
12F2529-BSD1	Lab Control Sample Dup	Total	Soil	SW846 8260B	12F2529_P
12F2529-MS1	Matrix Spike	Total	Soil	SW846 8260B	12F2529_P
12F2529-MSD1	Matrix Spike Duplicate	Total	Soil	SW846 8260B	12F2529_P
NWF0938-01	510 Laurel Bay	Total	Soil	SW846 8260B	12F2529_P
NWF0938-02	502 Laurel Bay	Total	Soil	SW846 8260B	12F2529_P

Prep Batch: 12F2529_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12F2529-BLK1	Method Blank	Total	Soil	EPA 5035	
12F2529-BLK2	Method Blank	Total	Soil	EPA 5035	
12F2529-BS1	Lab Control Sample	Total	Soil	EPA 5035	
12F2529-BSD1	Lab Control Sample Dup	Total	Soil	EPA 5035	
12F2529-MS1	Matrix Spike	Total	Soil	EPA 5035	
12F2529-MSD1	Matrix Spike Duplicate	Total	Soil	EPA 5035	
NWF0938-01	510 Laurel Bay	Total	Soil	EPA 5035	
NWF0938-02	502 Laurel Bay	Total	Soil	EPA 5035	

GCMS Semivolatiles

Analysis Batch: 12F1825

Jothad Dlask				Prep Batch
Method Blank	Total	Soil	SW846 8270D	12F1825_P
ab Control Sample	Total	Soil	SW846 8270D	12F1825_P
510 Laurel Bay	Total	Soil	SW846 8270D	12F1825_P
510 Laurel Bay	Total	Soil	SW846 8270D	12F1825_P
510 Laurel Bay	Total	Soil	SW846 8270D	12F1825_P
502 Laurel Bay	Total	Soil	SW846 8270D	12F1825_P
	510 Laurel Bay 510 Laurel Bay 510 Laurel Bay	510 Laurel Bay Total 510 Laurel Bay Total 510 Laurel Bay Total	510 Laurel Bay Total Soil 510 Laurel Bay Total Soil 510 Laurel Bay Total Soil	510 Laurel Bay Total Soil SW846 8270D 510 Laurel Bay Total Soil SW846 8270D 510 Laurel Bay Total Soil SW846 8270D

Prep Batch: 12F1825_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12F1825-BLK1	Method Blank	Total	Soil	EPA 3550C	
12F1825-BS1	Lab Control Sample	Total	Soil	EPA 3550C	
12F1825-MS1	510 Laurel Bay	Total	Soil	EPA 3550C	
12F1825-MSD1	510 Laurel Bay	Total	Soil	EPA 3550C	
NWF0938-01	510 Laurel Bay	Total	Soil	EPA 3550C	
NWF0938-02	502 Laurel Bay	Total	Soil	EPA 3550C	

Extractions

Analysis Batch: 12F1804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12F1804-DUP1	Duplicate	Total	Soil	SW-846	12F1804_P
NWF0938-01	510 Laurel Bay	Total	Soil	SW-846	12F1804_P
NWF0938-02	502 Laurel Bay	Total	Soil	SW-846	12F1804_P

Prep Batch: 12F1804_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12F1804-DUP1	Duplicate	Total	Soil	% Solids	
NWF0938-01	510 Laurel Bay	Total	Soil	% Solids	

QC Association Summary

Client: EEG - Small Business Group, Inc. (2449)

Project/Site: [none]

TestAmerica Job ID: NWF0938

Extractions (Continued)

Prep Batch: 12F1804_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NWF0938-02	502 Laurel Bay	Total	Soil	% Solids	

Lab Chronicle

Client: EEG - Small Business Group, Inc. (2449)

Project/Site: [none]

TestAmerica Job ID: NWF0938

Client Sample ID: 510 Laurel Bay

Date Collected: 06/04/12 14:15 Date Received: 06/09/12 08:30

Lab Sample ID: NWF0938-01

Matrix: Soil

Percent Solids: 91.6

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		1.06	12F2529_P	06/15/12 08:51	AAN	TAL NSH
Total	Analysis	SW846 8260B		1.00	V009914	06/15/12 18:14	RJK	TAL NSH
Total	Prep	EPA 3550C		0.979	12F1825_P	06/09/12 19:00	MWT	TAL NSH
Total	Analysis	SW846 8270D		1.00	12F1825	06/11/12 22:19	WLL	TAL NSH
Total	Prep	% Solids		1.00	12F1804_P	06/09/12 14:49	MLYN	TAL NSH
Total	Analysis	SW-846		1.00	12F1804	06/11/12 06:32	JXM	TAL NSH

Client Sample ID: 502 Laurel Bay

Date Collected: 06/05/12 14:00

Date Received: 06/09/12 08:30

Lab Sample ID: NWF0938-02

Matrix: Soil

Percent Solids: 88.1

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		1.08	12F2529_P	06/15/12 08:51	AAN	TAL NSH
Total	Analysis	SW846 8260B		1.00	V009914	06/15/12 18:44	RJK	TAL NSH
Total	Prep	EPA 3550C		0.992	12F1825_P	06/09/12 19:00	MWT	TAL NSH
Total	Analysis	SW846 8270D		1.00	12F1825	06/11/12 22:39	WLL	TAL NSH
Total	Prep	% Solids		1.00	12F1804_P	06/09/12 14:49	MLYN	TAL NSH
Total	Analysis	SW-846		1.00	12F1804	06/11/12 06:32	JXM	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: NWF0938

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

Client: EEG - Small Business Group, Inc. (2449)

Project/Site: [none]

aboratory	Authority	Program	EPA Region	Certification ID
estAmerica Nashville		ACIL		393
estAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
estAmerica Nashville	Alabama	State Program	4	41150
estAmerica Nashville	Alaska (UST)	State Program	10	UST-087
estAmerica Nashville	Arizona	State Program	9	AZ0473
estAmerica Nashville	Arkansas DEQ	State Program	6	88-0737
estAmerica Nashville	California	NELAC	9	1168CA
estAmerica Nashville	Canadian Assoc Lab Accred (CALA)	Canada		3744
estAmerica Nashville	Colorado	State Program	8	N/A
estAmerica Nashville	Connecticut	State Program	1	PH-0220
estAmerica Nashville	Florida	NELAC	4	E87358
estAmerica Nashville	Illinois	NELAC	5	200010
estAmerica Nashville	lowa	State Program	7	131
estAmerica Nashville	Kansas	NELAC	7	E-10229
estAmerica Nashville	Kentucky	State Program	4	90038
estAmerica Nashville	Kentucky (UST)	State Program	4	19
estAmerica Nashville	Louisiana	NELAC	6	30613
estAmerica Nashville	Louisiana	NELAC	6	LA110014
estAmerica Nashville	Maryland	State Program	3	316
estAmerica Nashville	Massachusetts	State Program	1	M-TN032
estAmerica Nashville	Minnesota	NELAC	5	047-999-345
estAmerica Nashville	Mississippi	State Program	4	N/A
estAmerica Nashville	Montana (UST)	State Program	8	NA
estAmerica Nashville	New Hampshire	NELAC	1	2963
estAmerica Nashville	New Jersey	NELAC	2	TN965
estAmerica Nashville	New York	NELAC	2	11342
estAmerica Nashville	North Carolina DENR	State Program	4	387
estAmerica Nashville	North Dakota	State Program	8	R-146
estAmerica Nashville	Ohio VAP	State Program	5	CL0033
estAmerica Nashville	Oklahoma	State Program	6	9412
estAmerica Nashville	Oregon	NELAC	10	TN200001
estAmerica Nashville	Pennsylvania	NELAC	3	68-00585
estAmerica Nashville	Rhode Island	State Program	1	LAO00268
estAmerica Nashville	South Carolina	State Program	4	84009
estAmerica Nashville	South Carolina	State Program	4	84009
estAmerica Nashville	Tennessee	State Program	4	2008
estAmerica Nashville	Texas	NELAC	6	T104704077-09-TX
estAmerica Nashville	USDA	Federal		S-48469
estAmerica Nashville	Utah	NELAC	8	TAN
estAmerica Nashville	Virginia	NELAC	3	460152
estAmerica Nashville	Virginia	State Program	3	00323
estAmerica Nashville	Washington	State Program	10	C789
estAmerica Nashville	West Virginia DEP	State Program	3	219
estAmerica Nashville	Wisconsin	State Program	5	998020430
estAmerica Nashville	Wyoming (UST)	A2LA	8	453.07

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.

ATTACHMENT A



NON-HAZARDOUS MANIFEST

	NON-HAZARDOUS MANIFEST	1. Generator's US EP	A ID No. N	anifest Doc N	No.	2. Page 1	of			13 14
	NON-HAZARDOUS MANIFEST					1				
H	3. Generator's Mailing Address:	Ger	nerator's Site Address (If	different than ma	ailing):	A. Manife	st Number	a mas	1000	24
W	MCAS, BEAUFORT					W	MNA	00316	228	
	LAUREL BAY HOUSING					Mana.	10.000	enerator's		
	BEAUFORT, SC 29907						D. State C	renerator 3		
	4. Generator's Phone 843-22	28-6461								
	5. Transporter 1 Company Name		6. US EPA I	D Number	Horacox					
	FEC ING					C. State T	ransporter's IE		Me .	(40)
	EEG, INC.					D. Transp	orter's Phone	843-8	79-041	1
	7. Transporter 2 Company Name		8. US EPA I	D Number		The Way				-
d				1		171000000000000000000000000000000000000	ransporter's ID		THE LO	tedi.
						F. Transpo	orter's Phone	3000		
	9. Designated Facility Name and Site	Address	10. US EPA	ID Number			2887 VA			
	HICKORY HILL LANDFILL					G. State F	acility ID		TOUR	
H	2621 LOW COUNTRY ROAD		Entire Man		Carlo Co	H. State F	acility Phone	843-9	87-4643	3
	RIDGELAND, SC 29936									
8	The Course of th			12 Cor	ntainers	13. Total	14. Unit			
G	11. Description of Waste Materials			No.	Туре	Quantity	Wt /Vol	I. Mis	sc. Commen	ts
E	a. HEATING OIL TANKS FILLED	WITH SAND					The same		The F	
NE				Marie	III SW	The same				
R	WM Profi	le# 102655SC								
A	b.							N. V.		
TO										
R	WM Profile #									
	G. U						ALL POP			1
4					400	A siles			374	
	WM Profile #	S. H. Sale Bridge Bridge	in the state of th					deny land		
84	d.				1	dul				
					index!	TO CONTRACT OF				
1	WM Profile #									
	J. Additional Descriptions for Materi	als Listed Above		K. Dispos	al Location					
15				Cell				Level		
				Grid				Level	- 1	
	15. Special Handling Instructions and	Additional Information		1.000000	1	4 1238 Dove 0 1241 Dou				
	UST'S FROM		510 LAURE	1BAY	- 47			4)12	100	2
8	1919 BARRAC	uda 3	502 LAUR	-1 BAY	1, 5)	1298E	Male			
31	Purchase Order #		EMERGENCY CO	MERCY PROCESS OF SECURITY AND ADDRESS.	AND THE RESERVE AND DESCRIPTIONS			PAR FOR		
	16. GENERATOR'S CERTIFICATE:			THE REAL PROPERTY OF THE PARTY	1)				SEE S	30 10
1	I hereby certify that the above-describ	ed materials are not h	azardous wastes as defin	ned by CFR Pa	art 261 or a	ny applicable	e state law, ha	ve been full	y and	2700
	accurately described, classified and pa	ckaged and are in pro	per condition for transpo	rtation accor	ding to ap	plicable regu	lations.			
	Printed Name	7.1	Signature "On beha	ilf of"	1			Month	Day	Year
Ç.	17. Temporate 1 Adamidades	of Pacaint of Materials			7~			1,7	11	17
R	17. Transporter 1 Acknowledgement Printed Name	or neceipt of iviaterials	Signature	10	1			Month	Day	Year
N	Printed Name IRAH	SHAW	Signature		1			-7	//	1-7
P	18. Transporter 2 Acknowledgement	of Receipt of Materials		1	CARROLL NO.			-		12
R	Printed Name		Signature	NEW SES				Month	Day	Year
E										
16						X LL Y				
F	19. Certificate of Final Treatment/Dis			care were				40.00	make an	183
A C	I certify, on behalf of the above listed applicable laws, regulations, permits a		Control of the Appropriate Appropriate to the Appro	edge, the ab	ove-descrit	oed waste w	as managed in	compliance	with all	1906
1	20. Facility Owner or Operator: Certif			overed by th	is manifest					100
T	Printed Name	/	Signature			^		Month	Day	Year
Y .	TON: (1 + 10	10		no (At.	.0 0		7	16	12
The second	White-TREATMENT, STORAGE, DISPO	SAL FACILITY COPY	Blue- GENERATOR	#2 COPY		Ye	How- GENERAT	OR #1 COP	1	A

Pink- FACILITY USE ONLY

Gold-TRANSPORTER #1 COPY

Appendix C Regulatory Correspondence





Catherine B. Templeton, Director

Prograting and presering the health of the public and the environment

May 15, 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)



Catherine B. Templeton, Director

Promosting and protecting the health of the public and the environment

Attachment to:

Krieg to Drawdy Subject: NFA Dated 5/15/2014

Laurel Bay Underground Storage Tank Assessment Reports for: (143 addresses/146 tanks)

503 Laurel Bay
508 Laurel Bay
510 Laurel Bay
523 Laurel Bay
525 Laurel Bay
529 Laurel Bay
533 Laurel Bay
537 Laurel Bay
556 Dahlia
557 Dahlia
559 Dahlia
562 Dahlia
568 Dahlia
581 Aster
582 Aster
584 Aster
602 Dahlia
607 Dahlia
614 Dahlia
616 Dahlia
619 Dahlia
625 Dahlia
629 Dahlia
631 Dahlia
634 Dahlia
660 Camellia
661 Camellia
666 Camellia
669 Camellia
672 Camellia

Laurel Bay Underground Storage Tank Assessment Reports for: (143 addresses/146 tanks) cont.

674 Camellia	880 Cobia
677 Camellia	890 Cobia
679 Camellia	892 Cobia
686 Camellia	900 Barracuda
690 Camellia	906 Barracuda
698 Abelia	911 Barracuda
700 Bluebell	912 Barracuda
704 Bluebell	917 Barracuda
705 Bluebell	919 Barracuda
708 Bluebell	928 Albacore
710 Bluebell	1024 Foxglove
711 Bluebell	1028 Foxglove
714 Bluebell	1029 Foxglove
715 Bluebell	1038 Iris
726 Bluebell	1049 Gardenia
728 Bluebell	1079 Heather
731 Bluebell	1103 Iris
734 Bluebell	1122 Iris
759 Althea	1136 Iris
761 Althea	1173 Bobwhite
773 Althea	1200 Cardinal
778 Laurel Bay	1221 Cardinal
807 Azalea	1238 Dove
814 Azalea	1241 Dove
815 Azalea	1242 Dove
818 Azalea	1248 Dove
820 Azalea	1262 Dove
821 Azalea	1265 Dove
831 Azalea	1267 Dove
832 Azalea	1289 Eagle
834 Azalea	1298 Eagle
835 Azalea	1300 Eagle
841 Azalea	1303 Eagle
853 Dolphin	1304 Eagle
858 Dolphin	1315 Albatross
869 Cobia	1316 Albatross
874 Cobia	1320 Albatross
875 Cobia	1338 Albatross

Laurel Bay Underground Storage Tank Assessment Reports for: (143 addresses/146 tanks) cont.

1340 Albatross			
1342 Albatross			
1344 Cardinal			
1345 Cardinal		*	
1349 Cardinal			
1355 Cardinal			
1366 Cardinal			
1374 Dove	}		
1375 Dove			
1415 Albatross			