SUMMARY REPORT
58 ALBACORE STREET (FORMERLY 929 ALBACORE 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 SUMMARY REPORT
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9324 Virginia Avenue Norfolk, Virginia 23511-3095

Prepared by:



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

Contract Number: N62470-14-D-9016

CTO WE52

JUNE 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 58 Albacore Street (Formerly 929 Albacore 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 58 Albacore Street (Formerly 929 Albacore Street). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 929 Albacore Street* (MCAS Beaufort, 2014). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On January 14, 2014, a single 280 gallon heating oil UST was removed from the back yard adjacent to the patio area at 58 Albacore Street (Formerly 929 Albacore Street). The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). The UST was removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of the UST was 6'3" 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 58 Albacore Street (Formerly 929 Albacore 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 58 Albacore Street (Formerly 929 Albacore Street). This NFA determination was obtained in a letter dated October 1, 2014. SCDHEC's NFA letter is provided in Appendix C.

4.0 REFERENCES

Marine Corps Air Station Beaufort, 2014. South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 929 Albacore Street, Laurel Bay Military Housing Area, September 2014.

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 58 Albacore Street (Formerly 929 Albacore Street)

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

Constituent	SCDHEC RBSLs (1)	Results Sample Collected 01/14/14					
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	yzed 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:

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.

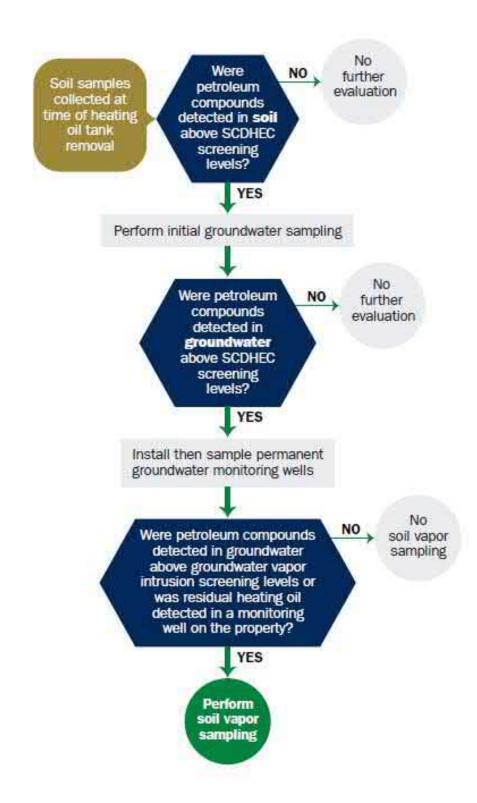
RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

⁽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).

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

Date Received
State Use Only

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

OWNERSHIP OF UST (S)

	ommanding Officer Attn: Ni n, Individual, Public Agency, Other)	REAU (Craig Ende)
Owner Name (Corporatio	n, 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 Milita	ry Housing Area	Marine Cor	ng Air Station	Dozufort	CC
Facility Name or Company	Site Identifier	Marine COI	ps AII Station,	Beautoit,	SC
929 Albacore Street Address or State Ros		ilitary Hou	sing Area		
Beaufort,	Beaufort				
City	County				

Attachment 2

III. INSURANCE INFORMATION

	Insurance S	tatement
qualify to receive state monic allowed in the State Clean-up	es to pay for appropriate site r	at Permit ID Number may rehabilitation activities. Before participation is f the existence or non-existence of an environmental eted.
	nere ever been an insurance por NO (check one)	olicy or other financial mechanism that covers this
If you answere	ed 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.
	ish to participate in the SUPE	
V.	CERTIFICATION (T	o be signed by the UST owner)
I certify that I have person attached documents; and information, I believe that the Name (Type or print.)	ally examined and am fami that based on my inquiry o he submitted information is	liar with the information submitted in this and a of those individuals responsible for obtaining the true, accurate, and complete.
Signature		
To be completed by N	otary Public:	
Sworn before me this	day of	_, 20
(Name)		
Notary Public for the state of Please affix State seal if you	are commissioned outside Sou	uth Carolina

VI. UST INFORMATION	929Albacore
Product(ex. Gas, Kerosene)	Heating oil
Capacity(ex. 1k, 2k)	280 gal
Age	Late 1950s
Construction Material(ex. Steel, FRP)	Steel
Month/Year of Last Use	Mid 1980s
Depth (ft.) To Base of Tank	6'3"
Spill Prevention Equipment Y/N	No
Overfill Prevention Equipment Y/N	No
Method of Closure Removed/Filled	Removed
Date Tanks Removed/Filled	1/14/2014
Visible Corrosion or Pitting Y/N	Yes
Visible Holes Y/N	Yes
Method of disposal for any USTs removed from the UST 929Albacore was removed from	
Subtitle "D" landfill. See Attach	
Mathed of diseased for pay liquid notrology aludar	or westervoters removed from the LISTs (at
Method of disposal for any liquid petroleum, sludge disposal manifests) UST 929Albacore had been previous	

VII. PIPING INFORMATION

	929Albacore
	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
Age	Late 1950s
Corrosion and pitting were fou pipe. Copper supply and return	nd on the surface of the steel lines were sound.
The USTs at the residences are	
and formerly contained fuel oil	
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.		х	
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.)		х	
C. Was water present in the UST excavation, soil borings, or trenches? If yes, how far below land surface (indicate location and depth)?		х	
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.		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#
929 Albacore	Excav at fill end	Soil	Sandy	6'3"	1/14/14 1400 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 <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

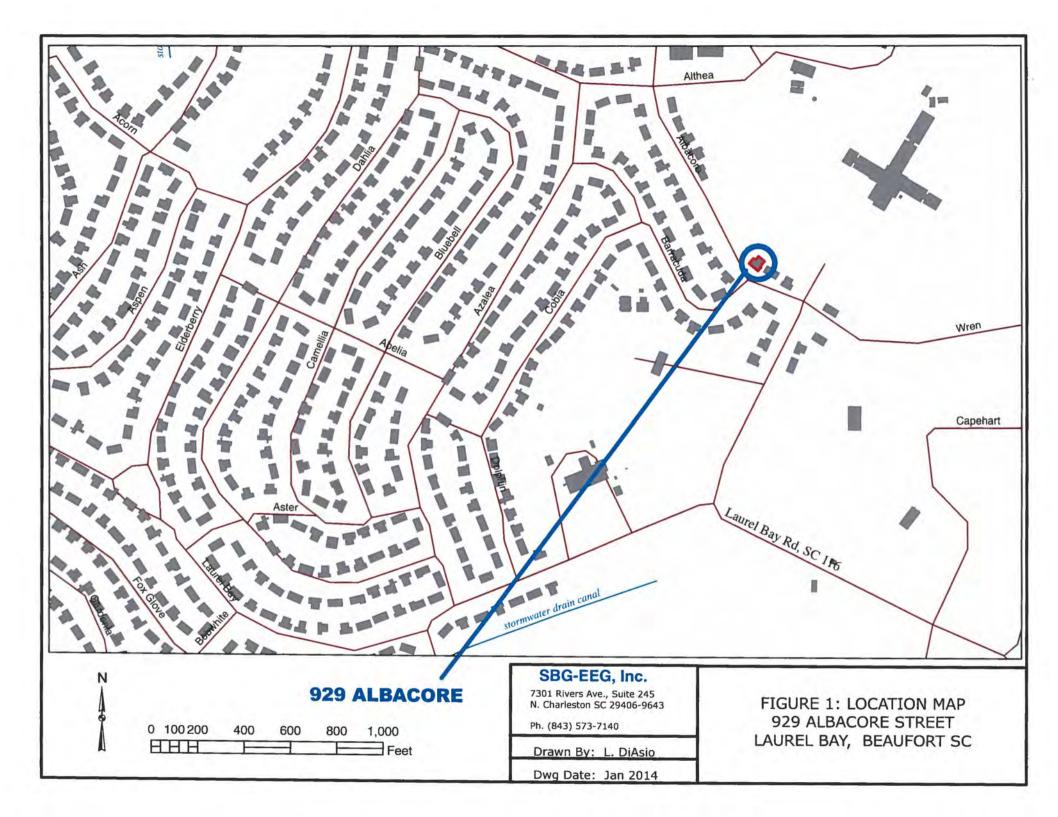
* *	
Yes	No
1 69	INO

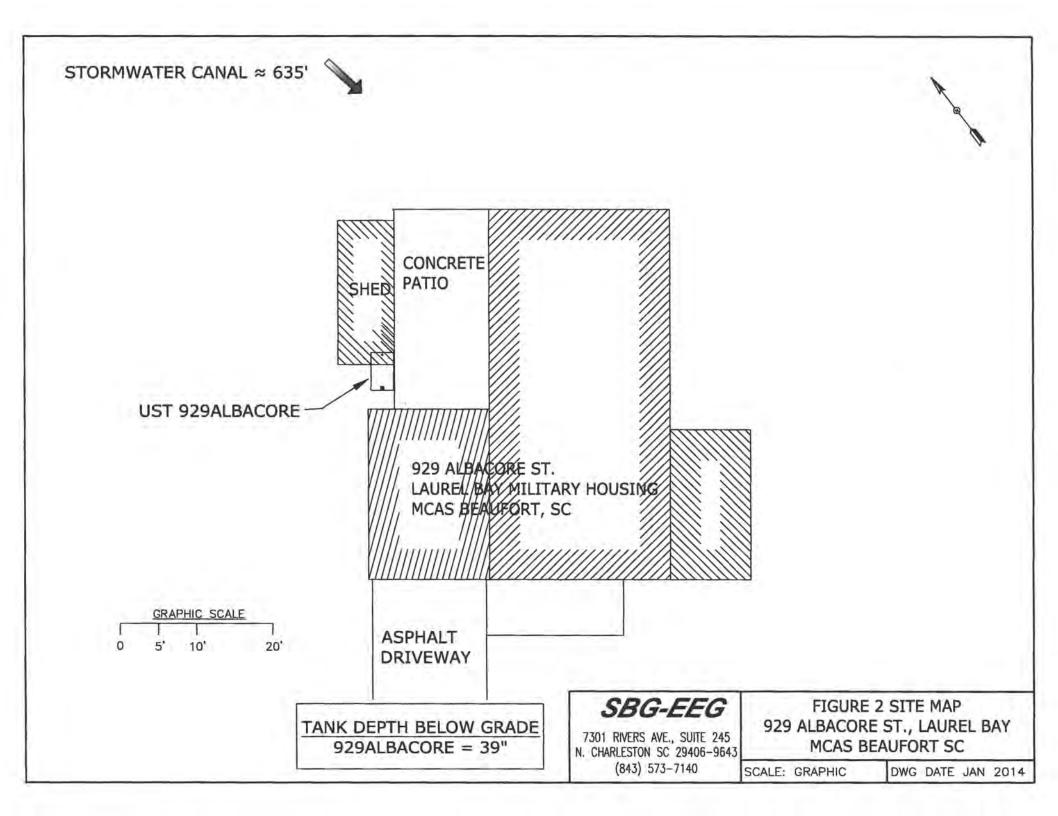
		1 65	140
A.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?	*X	
	*Stormwater ca	nal	1
	If yes, indicate type of receptor, distance, and direction on site map.		
B.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?		х
	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?		Х
	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 contamination? *Sewer, water, electricity.	*X	
	cable, fiber optic & g If yes, indicate the type of utility, distance, and direction on the site map.	eothe	rma1
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.		

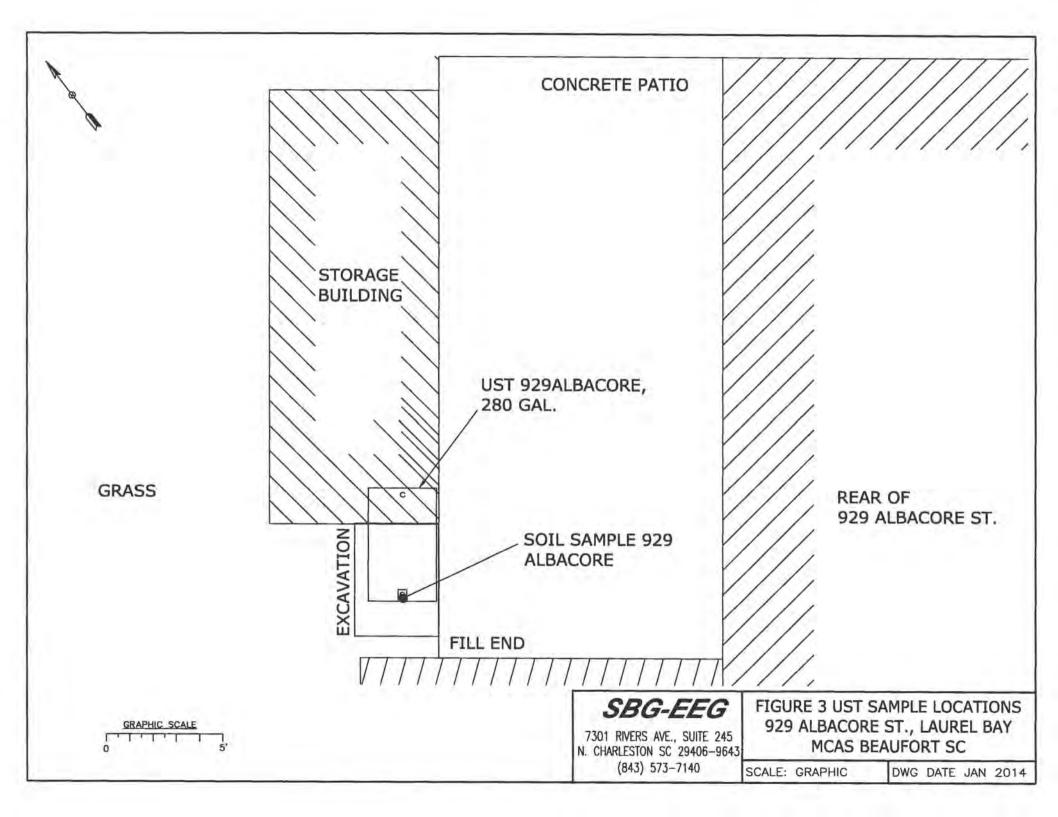
XIII. SITE MAP

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 929Albacore.



Picture 2: UST 929Albacore excavation.

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	929Albacore			
Benzene	ND			
Toluene	ND			
Ethylbenzene	ND			
Xylenes	ND		10 11	
Naphthalene	ND			
Benzo (a) anthracene	ND			
Benzo (b) fluoranthene	ND			
Benzo (k) fluoranthene	ND			
Chrysene	ND			
Dibenz (a, h) anthracene	ND	1		
TPH (EPA 3550)				
CoC				
Benzene		= 1		
Toluene				
Ethylbenzene				
Xylenes				
Naphthalene				
Benzo (a) anthracene				
Benzo (b) fluoranthene				
Benzo (k) fluoranthene				
Chrysene			1	
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		1		
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				H
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)



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ANALYTICAL REPORT

TestAmerica Laboratories, Inc. TestAmerica Nashville 2960 Foster Creighton Drive Nashville, TN 37204 Tel: (615)726-0177

TestAmerica Job ID: 490-44955-1

Client Project/Site: Laurel Bay Housing Project

For:

Small Business Group Inc. 10179 Highway 78 Ladson, South Carolina 29456

Attn: Tom McElwee

Heather Baker

Authorized for release by: 1/27/2014 12:59:54 PM Heather Baker, Project Manager I (615)301-5043 heather.baker@testamericainc.com

Designee for

Ken Hayes, Project Manager II (615)301-5035 ken.hayes@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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.

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

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project

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Sample Summary

Client: Small Business Group Inc.
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-44955-1

Lab Sample ID 490-44955-1 490-44955-2 Client Sample ID 929 Albacore 340 Ash-1 Matrix Soil Soil

Collected 01/14/14 14:00 01/15/14 15:15 Received 01/22/14 08:30 01/22/14 08:30







Case Narrative

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-44955-1

Job ID: 490-44955-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-44955-1

Comments

No additional comments.

Receipt

The samples were received on 1/22/2014 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0° C.

GC/MS VOA

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 136729. See LCS/LCSD.

No other analytical or quality issues were noted.

GC/MS Semi VOA

Method(s) 8270D: The method blank for batch 136933 contained Phenanthrene above the method detection limit. The target analyte concentrations were less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8270D: The method blank for preparation batch 136933 contained Acenaphthylene above the reporting limit (RL). None of the following samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed: 340 Ash-1 (490-44955-2), 929 Albacore (490-44955-1).

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted

VOA Prep

No analytical or quality issues were noted.

Definitions/Glossary

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-44955-1

Qualifiers

GC/MS VOA

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.

GC/MS Semi VOA

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.

B Compound was found in the blank and sample.

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

%R Percent Recovery
CNF Contains no Free Liquid

DER Duplicate error ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision level concentration
MDA Minimum detectable activity
EDL Estimated Detection Limit

MDC Minimum detectable concentration

MDL Method Detection Limit
ML Minimum Level (Dioxin)
No. Coloridated

NC Not Calculated

ND Not detected at the reporting limit (or MDL or EDL if shown)

PQL Practical Quantitation Limit

QC Quality Control
RER Relative error ratio

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

Client Sample Results

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-44955-1

Client Sample ID: 929 Albacore

Date Collected: 01/14/14 14:00 Date Received: 01/22/14 08:30

Toluene-d8 (Sum)

Lab Sample ID: 490-44955-1

Analyzed

04/20/44 46:20

01/22/14 16:39

Prepared

01/22/14 12:16

Matrix: Soil Percent Solids: 87.4

Dil Fac

Method: 8260B - Volatile	Organic	Compounds	(GC/MS)
Analyte		Result	Qualifier

Benzene	NU	0.00260	0.000869	mg/kg		01/22/14 12:16	01/22/14 16:39	3
Ethylbenzene	ND	0.00260	0.000869	mg/Kg	П	01/22/14 12:16	01/22/14 16:39	1
Naphthalene	ND	0.00649	0.00221	mg/Kg	п	01/22/14 12:16	01/22/14 16:39	1
Toluene	ND	0.00260	0.000960	mg/Kg	10	01/22/14 12:16	01/22/14 16:39	1
Xylenes, Total	ND	0.00649	0.000869	mg/Kg	ď	01/22/14 12:16	01/22/14 16:39	1
Surrogate	%Recovery Qualifier	Limits				Prepared	Analyzed	DII Fac
1,2-Dichloroethane-d4 (Surr)	70	70 - 130				01/22/14 12:16	01/22/14 16:39	1
4-Bromofluorobenzene (Surr)	81	70 - 130				01/22/14 12:16	01/22/14 16:39	1
Dibromofluoromethane (Surr)	104	70 - 130				01/22/14 12:16	01/22/14 16:39	1

70 - 130

0.00000

MDL Unit

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

97

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Acenaphthene	ND		0.0766	0.0114	mg/Kg	17	01/22/14 16:07	01/23/14 18:38	1
Acenaphthylene	ND		0.0766	0.0103	mg/Kg	D	01/22/14 16:07	01/23/14 18:38	1
Anthracene	ND		0.0766	0.0103	mg/Kg	D	01/22/14 16:07	01/23/14 18:38	1
Benzo[a]anthracene	ND		0.0766	0.0171	mg/Kg	0	01/22/14 16:07	01/23/14 18:38	1
Benzo[a]pyrene	ND		0.0766	0.0137	mg/Kg	п	01/22/14 16:07	01/23/14 18:38	1
Benzo[b]fluoranthene	ND		0.0766	0.0137	mg/Kg	.D	01/22/14 16:07	01/23/14 18:38	. 1
Benzo[g,h,i]perylene	ND		0.0766	0.0103	mg/Kg	(1)	01/22/14 16:07	01/23/14 18:38	1
Benzo[k]fluoranthene	ND		0.0766	0.0160	mg/Kg	11	01/22/14 16:07	01/23/14 18:38	1
1-Methylnaphthalene	ND		0.0766	0.0160	mg/Kg	10	01/22/14 16:07	01/23/14 18:38	1
Pyrene	ND		0.0766	0.0137	mg/Kg	п	01/22/14 16:07	01/23/14 18:38	1
Phenanthrene	ND		0.0766	0.0103	mg/Kg	d	01/22/14 16:07	01/23/14 18:38	1
Chrysene	ND		0.0766	0.0103	mg/Kg	11	01/22/14 16:07	01/23/14 18:38	1
Dibenz(a,h)anthracene	ND		0.0766	0.00800	mg/Kg	12	01/22/14 16:07	01/23/14 18:38	1
Fluoranthene	ND		0.0766	0.0103	mg/Kg	n	01/22/14 16:07	01/23/14 18:38	1
Fluorene	ND		0.0766	0.0137	mg/Kg	D.	01/22/14 16:07	01/23/14 18:38	1
Indeno[1,2,3-cd]pyrene	ND		0.0766	0.0114	mg/Kg	(0)	01/22/14 16:07	01/23/14 18:38	1
Naphthalene	ND		0.0766	0.0103	mg/Kg	12	01/22/14 16:07	01/23/14 18:38	1
2-Methylnaphthalene	ND		0.0766	0.0183	mg/Kg	n	01/22/14 16:07	01/23/14 18:38	3
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	DII Fac
2-Fluorobiphenyl (Surr)	61		29 - 120				01/22/14 16:07	01/23/14 18:38	7
Terphenyl-d14 (Surr)	71		13 - 120				01/22/14 16:07	01/23/14 18:38	1
Nitrobenzene-d5 (Surr)	60		27 - 120				01/22/14 16:07	01/23/14 18:38	1

General Chemistr

Analyte	Result Qualifier	RL	RL	Unit	D	Prepared	Analyzed	DII Fac
Percent Solids	87	0.10	0.10	%			01/22/14 13:46	1

Client Sample Results

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-44955-1

Client Sample ID: 340 Ash-1

Date Collected: 01/15/14 15:15 Date Received: 01/22/14 08:30

Percent Solids

Lab Sample ID: 490-44955-2

Matrix: Soil Percent Solids: 87.0

Date Received: 01/22/14 08:30

Method: 8260B - Volatile Orga	the state of the s	A CONTRACTOR OF THE PROPERTY O							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Benzene	ND		0.00202	0.000678	mg/Kg	- 0	01/22/14 12:16	01/22/14 17:09	1
Ethylbenzene	0.00306		0.00202	0.000678	mg/Kg	(0.1)	01/22/14 12:16	01/22/14 17:09	1
Naphthalene	0.0217		0.00506	0.00172	mg/Kg	11	01/22/14 12:16	01/22/14 17:09	1
Toluene	0.00162	J	0.00202	0.000749	mg/Kg	12	01/22/14 12:16	01/22/14 17:09	1
Xylenes, Total	0.0161		0.00506	0.000678	mg/Kg	17	01/22/14 12:16	01/22/14 17:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	DII Fac
1.2-Dichloroethane-d4 (Surr)	82		70 - 130				01/22/14 12:16	01/22/14 17:09	1
4-Bromofluorobenzene (Surr)	114		70 - 130				01/22/14 12:16	01/22/14 17:09	1
Dibromofluoromethane (Surr)	106		70 - 130				01/22/14 12:16	01/22/14 17:09	1
Toluene-dB (Surr)	103		70 - 130				01/22/14 12:16	01/22/14 17:09	1
Method: 8270D - Semivolatile	Organic Compou	nds (GC/MS	S)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0770	0.0115	mg/Kg	D	01/22/14 16:07	01/23/14 19:00	1
Acenaphthylene	ND		0.0770	0.0103	mg/Kg	D	01/22/14 16:07	01/23/14 19:00	1
Anthracene	0.0191	J	0.0770	0.0103	mg/Kg	П	01/22/14 16:07	01/23/14 19:00	1
Benzo[a]anthracene	0.0734	J	0.0770	0.0172	mg/Kg	п	01/22/14 16:07	01/23/14 19:00	1
Benzo[a]pyrene	ND		0.0770	0.0138	mg/Kg	(0)	01/22/14 16:07	01/23/14 19:00	1
Benzo[b]fluoranthene	0.0693	3	0.0770	0.0138	mg/Kg	13	01/22/14 16:07	01/23/14 19:00	1
Benzo[g,h,i]perylene	ND		0.0770	0.0103	mg/Kg	[2]	01/22/14 16:07	01/23/14 19:00	1
Benzo[k]fluoranthene	ND		0.0770	0.0161	mg/Kg	- 12	01/22/14 16:07	01/23/14 19:00	1
1-Methylnaphthalene	0.0882		0.0770	0.0161	mg/Kg	51	01/22/14 16:07	01/23/14 19:00	1
Pyrene	0.128		0.0770	0.0138	mg/Kg		01/22/14 16:07	01/23/14 19:00	1
Phenanthrene	0.0749	JB	0.0770	0.0103	mg/Kg	13	01/22/14 16:07	01/23/14 19:00	1
Chrysene	0.0719	J	0.0770	0.0103	mg/Kg	12	01/22/14 16:07	01/23/14 19:00	1
Dibenz(a,h)enthracene	ND		0.0770	0.00805	mg/Kg	12	01/22/14 16:07	01/23/14 19:00	1
Fluoranthene	0.119		0.0770	0.0103	mg/Kg	.02	01/22/14 16:07	01/23/14 19:00	1
Fluorene	ND		0.0770	0.0138	mg/Kg	п	01/22/14 16:07	01/23/14 19:00	1
Indeno[1,2,3-cd]pyrene	ND		0.0770	0.0115	mg/Kg	111	01/22/14 16:07	01/23/14 19:00	1
Naphthalene	ND		0.0770	0.0103	mg/Kg	IJ	01/22/14 16:07	01/23/14 19:00	1
2-Methylnaphthalene	ND		0.0770	0.0184	mg/Kg	n	01/22/14 16:07	01/23/14 19:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	DII Fac
2-Fluorobiphenyl (Surr)	62		29 - 120				01/22/14 16:07	01/23/14 19:00	1
Terphenyl-d14 (Surr)	69		13 - 120				01/22/14 16:07	01/23/14 19:00	1
Nitrobenzene-d5 (Surr)	61		27 - 120				01/22/14 16:07	01/23/14 19:00	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac

01/22/14 13:46

0.10

0.10 %

87

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-44955-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-136729/7

Matrix: Solid

Analysis Batch: 136729

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000670	mg/Kg			01/22/14 13:12	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			01/22/14 13:12	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			01/22/14 13:12	1
Toluene	ND		0.00200	0.000740	mg/Kg			01/22/14 13:12	1
Xylenes, Total	ND		0.00500	0.000670	mg/Kg			01/22/14 13:12	1

MB MB Limits Surrogate Qualifler Prepared Analyzed DII Fac 1,2-Dichloroethane-d4 (Surr) 85 70 - 130 01/22/14 13:12 70 - 130 4-Bromofluorobenzene (Surr) 103 01/22/14 13:12 70 - 130 Dibromofluoromethane (Surr) 107 01/22/14 13:12 70 - 130 Toluene-d8 (Sum) 98 01/22/14 13:12

Lab Sample ID: LCS 490-136729/3

Matrix: Solid

Analysis Batch: 136729

Client Sample ID: Lab Control Sample Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.0500	0.04788		mg/Kg		96	75 - 127
Ethylbenzene	0.0500	0.04627		mg/Kg		93	BO - 134
Naphthalene	0.0500	0.04356		mg/Kg		87	69 - 150
Toluene	0.0500	0.04751		mg/Kg		95	80 - 132
Xylenes, Total	0.100	0.08575		mg/Kg		86	80 - 137

LCS LCS %Recovery Qualifier Limits Surrogate 70 - 130 1,2-Dichloroethane-d4 (Surr) 87 4-Bromofluorobenzene (Surr) 94 70 - 130 102 70 - 130 Dibromofluoromethane (Surr) 70 - 130 Toluene-d8 (Surr) 93

Lab Sample ID: LCSD 490-136729/4

Matrix: Solid

Analysis Batch: 136729

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.0500	0.04761		mg/Kg		95	75 - 127	1	50	
Ethylbenzene	0.0500	0.04406		mg/Kg		88	80 - 134	5	50	
Naphthalene	0.0500	0.04747		mg/Kg		95	69 - 150	9	50	
Toluene	0.0500	0.04192		mg/Kg		84	80 - 132	13	50	
Xylenes, Total	0.100	0.08335		mg/Kg		83	80 - 137	3	50	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
4-Bromofluorobenzene (Surr)	88		70 - 130
Dibromofluoromethane (Surr)	114		70 - 130
Toluene-d8 (Surr)	87		70 - 130

TestAmerica Nashville

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1/27/2014

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-44955-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-136933/1-A

Matrix: Solid

Analysis Batch: 137131

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 136933

	IND	INID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Acenaphthene	ND		0.0670	0.0100	mg/Kg		01/22/14 16:07	01/23/14 16:48	1
Acenaphthylene	0.09873		0.0670	0.00900	mg/Kg		01/22/14 16:07	01/23/14 16:48	1
Anthracene	ND		0.0670	0.00900	mg/Kg		01/22/14 16:07	01/23/14 16:48	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		01/22/14 16:07	01/23/14 16:48	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		01/22/14 16:07	01/23/14 16:48	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		01/22/14 16:07	01/23/14 16:48	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		01/22/14 16:07	01/23/14 16:48	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		01/22/14 16:07	01/23/14 16:48	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		01/22/14 16:07	01/23/14 16:48	- 1
Pyrene	ND		0.0670	0.0120	mg/Kg		01/22/14 16:07	01/23/14 16:48	- 1
Phenanthrene	0.03632	J	0.0670	0.00900	mg/Kg		01/22/14 16:07	01/23/14 16:48	1
Chrysene	ND		0.0670	0.00900	mg/Kg		01/22/14 16:07	01/23/14 16:48	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		01/22/14 16:07	01/23/14 16:48	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg		01/22/14 16:07	01/23/14 16:48	1
Fluorene	ND		0.0670	0.0120	mg/Kg		01/22/14 16:07	01/23/14 16:48	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		01/22/14 16:07	01/23/14 16:48	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		01/22/14 16:07	01/23/14 16:48	1
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		01/22/14 16:07	01/23/14 16:48	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	DII Fac
2-Fluorobiphenyl (Surr)	83	29 - 120	01/22/14 16:07	01/23/14 16:48	1
Terphenyl-d14 (Surr)	89	13.120	01/22/14 16:07	01/23/14 16:48	1
Nitrobenzene-d5 (Surr)	81	27 - 120	01/22/14 16:07	01/23/14 16:48	1

Lab Sample ID: LCS 490-136933/2-A

Matrix: Solid

Analysis Batch: 137131

Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 136933

rinery ore Burelli 191 (4)							
	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	1.67	1.502		mg/Kg		90	38 - 120
Anthracene	1.67	1.450		mg/Kg		87	46 - 124
Benzo[a]anthracene	1.67	1.362		mg/Kg		82	45 - 120
Benzo[a]pyrene	1.67	1.437		mg/Kg		86	45 - 120
Benzo(b)fluoranthene	1.67	1.579		mg/Kg		95	42 - 120
Benzo[g.h.i]perylene	1.67	1.458		mg/Kg		87	38 - 120
Benzo[k]fluoranthene	1.67	1.241		mg/Kg		74	42 - 120
1-Methylnaphthalene	1.67	1.307		mg/Kg		78	32.120
Pyrene	1.67	1.397		mg/Kg		84	43 - 120
Phenanthrene	1.67	1.349		mg/Kg		81	45 - 120
Chrysene	1.67	1.417		mg/Kg		85	43 - 120
Dibenz(a,h)anthracene	1.67	1.552		mg/Kg		93	32 - 128
Fluoranthene	1.67	1.377		mg/Kg		83	46 - 120
Fluorene	1.67	1.376		mg/Kg		83	42 - 120
Indeno[1,2,3-cd]pyrene	1.67	1.419		mg/Kg		85	41 - 121
Naphthalene	1.67	1.360		mg/Kg		82	32 - 120
2-Methylnaphthalene	1.67	1.302		mg/Kg		78	28 - 120

TestAmerica Nashville

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1/27/2014

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-44955-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-136933/2-A

Lab Sample ID: 490-44955-2 MS

Matrix: Solid

Analysis Batch: 137131

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 136933

	LUS	LUS	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	80		29 - 120
Terphenyl-d14 (Surr)	84		13 - 120
Nitrobenzene-d5 (Surr)	79		27 - 120

Client Sample ID: 340 Ash-1 Prep Type: Total/NA

Prep Batch: 136933

Matrix: Soil
Analysis Batch: 137131

Allarysis Datell. 101 101									riep
	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	ND		1.88	1.340		mg/Kg	0	71	25 - 120
Anthracene	0.0191	J	1.88	1.337		mg/Kg	11	70	28 - 125
Benzo[a]anthracene	0.0734	J	1.88	1.264		mg/Kg	12	63	23 - 120
Benzo[a]pyrene	ND		1.88	1.309		mg/Kg	13	70	15 - 128
Benzo[b]fluoranthene	0.0693	J	1.88	1.307		mg/Kg	d	66	12 - 133
Benzo[g,h,i]perylene	ND		1.88	1.284		mg/Kg	13	68	22 - 120
Benzo[k]fluoranthene	ND		1.88	1.290		mg/Kg	- 0	69	28 - 120
1-Methylnaphthalene	0.0882		1.88	1.555		mg/Kg	- 13	78	10 - 120
Pyrene	0.128		1.88	1.344		mg/Kg	D.	65	20 - 123
Phenanthrene	0.0749	JB	1.88	1.454		mg/Kg	-17	73	21 - 122
Chrysene	0.0719	J	1.88	1.295		mg/Kg	п	65	20 - 120
Dibenz(a,h)anthracene	ND		1.88	1.344		mg/Kg	II	71	12 - 128
Fluoranthene	0.119		1.88	1.342		mg/Kg	12	65	10 - 143
Fluorene	ND		1.88	1.278		mg/Kg	12	68	20 - 120
Indeno[1,2,3-cd]pyrene	ND		1.88	1.284		mg/Kg	12	68	22 - 121
Naphthalene	ND		1.88	1.200		mg/Kg	11	64	10 - 120
2-Methylnaphthalene	ND		1.88	1.322		mg/Kg	П	70	13 - 120

MS MS

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	62		29 - 120
Terphenyl-d14 (Surr)	66		13 - 120
Nitrobenzene-d5 (Sum)	65		27 - 120

Lab Sample ID: 490-44955-2 MSD

Matrix: Soil

Client Sample ID: 340 Ash-1

Prep Type: Total/NA

Analysis Batch: 137131 Prep Batch: 136933

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthylene	ND		1.86	1.282		mg/Kg	11	69	25 - 120	4	50
Anthracene	0.0191	J	1.86	1.555		mg/Kg	İ	83	28 - 125	15	49
Benzo[a]anthracene	0.0734	J	1.86	1.592		mg/Kg	п	82	23 - 120	23	50
Benzo[a]pyrene	ND		1.86	1.606		mg/Kg	n	86	15 - 128	20	50
Benzo[b]fluoranthene	0.0693	J	1.86	1.853		mg/Kg	D	96	12 - 133	35	50
Benzo[g,h,i]perylene	ND		1.86	1.572		mg/Kg	11.	85	22 - 120	20	50
Benzo[k]fluoranthene	ND		1.86	1.439		mg/Kg	11	77	28 - 120	11	45
1-Methylnaphthalene	0.0882		1.86	1.268		mg/Kg	-	63	10 - 120	20	50
Pyrene	0.128		1.86	1.682		mg/Kg	-	84	20 - 123	22	50
Phenanthrene	0.0749	JB	1.86	1.701		mg/Kg	П	87	21 - 122	16	50
Chrysene	0.0719	J	1.86	1.660		mg/Kg	10	85	20 - 120	25	49

TestAmerica Nashville

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Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-44955-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-44955-2 MSD

Matrix: Soil

Analysis Batch: 137131

Client Sample ID: 340 Ash-1 Prep Type: Total/NA

Prep Batch: 136933

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Dibenz(a,h)anthracene	ND		1.86	1.664		mg/Kg	D.	89	12 - 128	21	50
Fluoranthene	0.119		1.86	1.720		mg/Kg	D	86	10 - 143	25	50
Fluorene	ND		1.86	1.426		mg/Kg	(0)	77	20 - 120	11	50
Indeno[1,2,3-cd]pyrene	ND		1.86	1.585		mg/Kg	Ü.	85	22 - 121	21	50
Naphthalene	ND		1.86	0.9482		mg/Kg	Ü.	51	10 - 120	23	50
2-Methylnaphthalene	ND		1.86	1.118		mg/Kg	п	60	13 - 120	17	50

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	53		29 - 120
Terphenyl-d14 (Surr)	76		13 - 120
Nitrobenzene-d5 (Surr)	54		27 - 120

Method: Moisture - Percent Moisture

Lab Sample ID: 490-44955-1 DU

Matrix: Soil

Analysis Batch: 136859

	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Percent Solids	87		87		%		0.9	20









QC Association Summary

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-44955-1

GC/MS VOA

Analysis Batch: 1367	129
----------------------	-----

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-44955-1	929 Albacore	Total/NA	Soil	8260B	136824
490-44955-2	340 Ash-1	Total/NA	Soil	8260B	136824
LCS 490-136729/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-136729/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-136729/7	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 136824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-44955-1	929 Albacore	Total/NA	Soil	5035	
490-44955-2	340 Ash-1	Total/NA	Soil	5035	

GC/MS Semi VOA

Prep Batch: 136933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-44955-1	929 Albacore	Total/NA	Soil	3550C	
490-44955-2	340 Ash-1	Total/NA	Soil	3550C	
490-44955-2 MS	340 Ash-1	Total/NA	Sail	3550C	
490-44955-2 MSD	340 Ash-1	Total/NA	Soil	3550C	
LCS 490-136933/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-136933/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 137131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-44955-1	929 Albacore	Total/NA	Soil	8270D	136933
490-44955-2	340 Ash-1	Total/NA	Soil	8270D	136933
490-44955-2 MS	340 Ash-1	Total/NA	Soil	8270D	136933
490-44955-2 MSD	340 Ash-1	Total/NA	Soil	8270D	136933
LCS 490-136933/2-A	Lab Control Sample	Total/NA	Solid	8270D	136933
MB 490-136933/1-A	Method Blank	Total/NA	Solid	8270D	136933

General Chemistry

Analysis Batch: 136859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-44955-1	929 Albacore	Total/NA	Soil	Moisture	
490-44955-1 DU	929 Albacore	Total/NA	Soil	Moisture	
490-44955-2	340 Ash-1	Total/NA	Soil	Moisture	

Lab Chronicle

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-44955-1

Client Sample ID: 929 Albacore

Date Collected: 01/14/14 14:00 Date Received: 01/22/14 08:30

Client Sample ID: 340 Ash-1

Date Collected: 01/15/14 15:15

Date Received: 01/22/14 08:30

Lab Sample ID: 490-44955-1

Matrix: Soil

Percent Solids: 87.4

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.407 g	5.0 mL	136824	01/22/14 12:16	JLP	TAL NSH
Total/NA	Analysis	8260B		1	4.407 g	5.0 mL	136729	01/22/14 16:39	SNR	TAL NSH
Total/NA	Prep	3550C			30.01 g	1.00 mL	136933	01/22/14 16:07	вјв	TAL NSH
Total/NA	Analysis	8270D		1	30,01 g	1.00 mL	137131	01/23/14 18:38	KKH	TAL NSH
Total/NA	Analysis	Moisture		1			136859	01/22/14 13:46	RRS	TAL NSH

Lab Sample ID: 490-44955-2

Matrix: Soil

Percent Solids: 87.0

	Batch	Batch		DII	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.682 g	5,0 mL	136824	01/22/14 12:16	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5.682 g	5.0 mL	136729	01/22/14 17:09	SNR	TAL NSH
Total/NA	Prep	3550C			30.00 g	1.00 mL	136933	01/22/14 16:07	BJB	TAL NSH
Total/NA	Analysis	8270D		1	30.00 g	1.00 mL	137131	01/23/14 19:00	KKH	TAL NSH
Total/NA	Analysis	Maisture		1			136859	01/22/14 13:46	RRS	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-44955-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NSH
Moisture	Percent Moisture	EPA	TAL NSH

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TestAmerica Nashville

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1/27/2014

Certification Summary

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-44955-1

Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
AZLA	ISO/IEC 17025	10 3 to 10 - 10 to	0453.07	12-31-15
Alaska (UST)	State Program	10	UST-087	07-24-14
Arizona	State Program	9	AZ0473	05-05-14
Arizona	State Program	9	AZ0473	05-05-14 *
Arkansas DEQ	State Program	6	88-0737	04-25-14
California	NELAP	9	1168CA	10-31-14
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Connecticut	State Program	1	PH-0220	12-31-15
Florida	NELAP	4	E87358	06-30-14
Illinois	NELAP	5	200010	12-09-14
lowa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-14
Kentucky (UST)	State Program	4	19	06-30-14
Louisiana	NELAP	6	30613	06-30-14
Maryland	State Program	3	316	03-31-14
Massachusetts	State Program	1	M-TN032	06-30-14
Minnesota	NELAP	5	047-999-345	12-31-14
Mississippi	State Program	4	N/A	06-30-14
Montana (UST)	State Program	8	NA	01-01-20
Nevada	State Program	9	TN00032	07-31-14
New Hampshire	NELAP	1	2963	10-10-14
New Jersey	NELAP	2	TN965	06-30-14
New York	NELAP	2	11342	04-01-14
North Carolina DENR	State Program	4	387	12-31-14
North Dakota	State Program	8	R-146	06-30-14
Ohio VAP	State Program	5	CL0033	10-16-15
Oklahoma	State Program	6	9412	08-31-14
Oregon	NELAP	10	TN200001	04-29-14
Pennsylvania	NELAP	3	68-00585	06-30-14
Rhode Island	State Program	1	LAO00268	12-30-14
South Carolina	State Program	4	84009 (001)	02-28-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-14
USDA	Federal		S-48469	10-30-16
Utah	NELAP	8	TN00032	07-31-14
Virginia	NELAP	3	460152	06-14-14
Washington	State Program	10	C789	07-19-14
West Virginia DEP	State Program	3	219	02-28-14
Wisconsin	State Program	5	998020430	08-31-14
Wyoming (UST)	A2LA	8	453.07	12-31-15

TestAmerica Nashville

^{*} Expired certification is currently pending renewal and is considered valid.



THE LEADER IN ENVIRONMENTAL TESTING Nashville, TN

COOLER RECEIPT FORM

Charleston



Cooler Received/Opened On 1/22/2014 @ 0830	490-44955 Chain of (
1. Tracking #(last 4 digits, FedEx)	W. 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
Courler: FedEx IR Gun ID 12080142	
2. Temperature of rep. sample or temp blank when opened: 2,0 Degrees Celsius	
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank froze	en? YES NONA
4. Were custody seals on outside of cooler?	VESNONA
If yes, how many and where:	1 (back)
5. Were the seals intact, signed, and dated correctly?	YESNONA
6. Were custody papers inside cooler?	ESNONA
I certify that I opened the cooler and answered questions 1-6 (initial)	CH
7. Were custody seals on containers: YES and Intact	YESNOMA
Were these signed and dated correctly?	YESNO
8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Pa	aper Other None
9. Cooling process: [ce-pack Ice (direct contact) Dry	ice Other None
10. Did all containers arrive in good condition (unbroken)?	ESNONA
11. Were all container labels complete (#, date, signed, pres., etc)?	ESNONA
12. Did all container labels and tags agree with custody papers?	YES NO NA
13a. Were VOA vials received?	ES.NONA
b. Was there any observable headspace present in any VOA vial?	YESNO.
14. Was there a Trip Blank in this cooler? YESNO. (A) If multiple coolers, sequ	ence #
certify that I unloaded the cooler and answered questions 7-14 (intial)	moun
15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH leve	el? YESNO.WA
b. Did the bottle labels indicate that the correct preservatives were used	CESINONA
16. Was residual chlorine present?	YESNO.
I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (Intia	I) _mam
17. Were custody papers properly filled out (ink, signed, etc)?	(ES).NONA
18. Did you sign the custody papers in the appropriate place?	VES NO NA
19. Were correct containers used for the analysis requested?	EST.NONA
20. Was sufficient amount of sample sent in each container?	ESL.NONA
certify that I entered this project into LIMS and answered questions 17-20 (intial)	mano
I certify that I attached a label with the unique LIMS number to each container (intial)	mous
21. Were there Non-Conformance Issues at login? YES. Was a NCM generated? YES	.(NO.).#

Loc: 490 44955

	Relinquished by: // Date Time	Relinquisheyby/ // // Date Time	Special instructions:					11-11-11	11/25/14	929 Albacore 1/14/14 1400 5 x	Date Sampled Time Sampled No. of Containers Shipped	,	Sampler Signature: A / LQ/	Sampler Name: (Print) 24+ 844	Telephone Number: 843.412,2097	Project Manager: Tom McElwee email: mcelwee@eeginc.net	City/State/Zlp: Ladson, SC 29456	Address: 10179 Highway 78	Client Name/Account #: EEG - SBG # 2449	TestAmerica Nashville Division 2960 Fostar Creighton THE LEADER IN ENVIRONMENTAL TESTING Nashville, TN 37204	
M-25-1	Received by TestAmerica: Date	Received by: Date Find & Y	Method of Shipment:					,	3,	5 2 21	Composite Field Fittered los HNO ₃ (Red Labet) MCL(Blue-Labet) NaOH (Orange Labet) H ₂ SO ₄ Plastic (Yellow Labet) None (Black Labet) Other (Specify) Groundwater Wastewater Drinking Water Sludge	√ Breservative 3 Matrix		34	Fax No. (345)-819-0481					Phone: 615-726-0177 fon Toll Free: 800-765-0880 Fax: 615-726-3404	
88	Time	Time	FEDEX VOCs Free of Headspace?						< < < <	XXXX	Soil Other (specify): BTEX + Napth - 8260 PAH - 8270D		Project #:	Project ID: Laurel Bay Housing Project	TA Quote #:	10 to the state of	Site State: SC	Enforcement Action?	. · · Compliance Monitoring?	To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?	
			× z	7				Pe	2		RUSH TAT (Pre-Schedule Standard TAT Fax Results Send QC wifh report							Yes No	Yes No	1/27/	2

Login Sample Receipt Checklist

Client: Small Business Group Inc.

Job Number: 490-44955-1

List Source: TestAmerica Nashville

Login Number: 44955 List Number: 1

Creator: McBride, Mike

Steater. McDride, Mine		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

12

ATTACHMENT A



NON-HAZARDOUS MANIFEST

7	1. Generator's US EP	A ID No.	Manifest Doc	No.	2. Page 1	of	-4						
NON-HĄZARDOUS MANIFEST						1							
3. Generator's Mailing Address:	Gen	erator's Site Addres	SS (If different than r	nalling):	A. Manif	est Number							
MCAS BEAUFORT					V								
LAUREL BAY HOUSING							0151 Generator		-				
BEAUFORT, SC 29904		4				72.01019							
4. Generator's Phone 843-8	79-0411												
5. Transporter 1 Company Name		6. US E	PA ID Number			100	THE STATE	elib-					
Barolina Contuner					C. State Transporter's ID								
60x 10 57 BEF	10 79901	0 116.5	DA (D. N)		D. Trans	orter's Phone		-					
7. Transporter 2 Company Name		8. US E	PA ID Number		E. State Transporter's ID								
00			1			orter's Phone			-				
9. Designated Facility Name and Site	Address	10. US	EPA ID Number		T. Claris	orter 3 mone	i sent	17000	TO IT				
HICKORY HILL LANDFILL					G. State	Facility ID							
2621 LOW COUNTRY DRIVE			1 -			Facility Phone	843-	987-464	13				
RIDGELAND, SC 29936			- 7						UEST)				
Transfer of the second second second		Carrent					T- 1						
11. Description of Waste Materials			12. Co	Type		13. Total Quantity Wt./Vol. (. Misc. Comments 7-07 75N 727474							
a. HEATING OIL TANK FILLED \	WITH SAND												
			1	204	7.07	70N	1/20	141	4				
WM Prof	file# 102655SC			1	1								
b.													
b.							1						
WM Profile #													
c. WWI Profile #													
WM Profile #			E										
d.													
WM Profile #													
J. Additional Descriptions for Mater	ials Listed Above		K. Dispo	sal Location									
			6.11				1						
			Cell				Level						
15. Special Handling Instructions and	Additional Information	~\ 711n 1			4	509	LAH	0-7	Roy				
USTS FREM	Additional information	2) 340 1	9sh-2		7	301	AL PRINCIPAL	1	Deny				
1929 All	MODRE	3) 13	52 CA	edicie	5)	11163	CAR	dia a	1				
Purchase Order #	101512		CONTACT / PH		_				-				
16. GENERATOR'S CERTIFICATE:		31,7-1,0-4,1,0											
I hereby certify that the above-describ	bed materials are not ha	azardous wastes as i	defined by 40 C	FR Part 261	or any appli	cable state lav	w have hee	n fully an	d				
accurately described, classified and pa							iv, nave bee	in rany an					
Printed Name	- 1	Signature "On I	pehalf of	-	= =		Month	Day	Year				
22	13 mast 20		17	24 -	_		12	10	14				
17. Transporter 1 Acknowledgement	of Receipt of Materials		111	/_				_					
Printed Name		Signature	PV DU	1			Month	Day	Year				
	of Descript of Martinials	-	1/1	_			12	10	14				
18. Transporter 2 Acknowledgement Printed Name	of Receipt of Materials		-6	9	-		T average	1	1000				
Frinted Name		Signature	- /	11	4		Month	Day	Year				
tolog last	thanic	X 121	my de	more	ell		1	10	1 7				
19. Certificate of Final Treatment/Dis			/										
certify, on behalf of the above listed			nowledge, the al	pove-descri	bed waste w	as managed i	in complian	ce with al	l -				
applicable laws, regulations, permits			TELEGRAPH AND A										
20. Facility Owner or Operator: Certi	ncation of receipt of no	_	als covered by t	nis manifes									
Printed Name	/	Signature	0,	1 /-	()		Month	Day	Year				
6111 111 101	74	V 034	1 . 1	TENCH	I.		1 2	1/0	11 11				

Pink- FACILITY USE ONLY

Gold-TRANSPORTER #1 COPY

Appendix C Regulatory Correspondence





Catherine B. Templeton, Director Promoting and protesting the health of the public and the environment

October 1, 2014

Commanding Officer
Attention: NREAO Mr. William A. Drawdy
United State Marine Corps Air Station
Post Office Box 55001

Post Office Box 55001 Beaufort, SC 29904-5001

RE: No

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

Promoting and protecting the health of the public and the environment

Attachment to:

Krieg to Drawdy

Subject: NFA

Dated 10/1/2014

Laurel Bay Underground Storage Tank Assessment Reports for: (3 addresses/4 tanks)

340 Ash Tank 1	509 Laurel Bay
340 Ash Tank 2	929 Albacore