

SUMMARY REPORT
384 BLUEBELL LANE (FORMERLY 741 BLUEBELL LANE)
LAUREL BAY MILITARY HOUSING AREA
MARINE CORPS AIR STATION BEAUFORT
BEAUFORT, SC

Revision: 0
Prepared for:

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

and



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

JUNE 2021

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Prepared by:



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

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

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List of Acronyms

bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
CTO	Contract Task Order
COPC	constituents of potential concern
IDIQ	Indefinite Delivery, Indefinite Quantity
IGWA	Initial Groundwater Assessment
JV	Joint Venture
LBMH	Laurel Bay Military Housing
MCAS	Marine Corps Air Station
NAVFAC Mid-Lant	Naval Facilities Engineering Command Mid-Atlantic
NFA	No Further Action
PAH	polynuclear aromatic hydrocarbon
QAPP	Quality Assurance Program Plan
RBSL	risk-based screening level
SCDHEC	South Carolina Department of Health and Environmental Control
Site	LBMH area at MCAS Beaufort, South Carolina
UST	underground storage tank
VISL	vapor intrusion screening level

1.0 INTRODUCTION

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

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

This report summarizes the results the environmental investigation activities associated with the storage of home heating oil and the potential release of petroleum constituents at the referenced property. Based on the results of the investigation, a No Further Action (NFA) determination has been made by the South Carolina Department of Health and Environmental Control (SCDHEC) for 384 Bluebell Lane (Formerly 741 Bluebell Lane). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

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

1.1 Background Information

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

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

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

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

1.2 UST Removal and Assessment Process

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

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

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

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

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

2.0 SAMPLING ACTIVITIES AND RESULTS

The following section presents the sampling activities and associated results for 384 Bluebell Lane (Formerly 741 Bluebell Lane). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 741 Bluebell Lane* (MCAS Beaufort, 2013). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On April 3, 2013, a single 280 gallon heating oil UST was removed from the concrete porch area at 384 Bluebell Lane (Formerly 741 Bluebell Lane). The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). The UST was removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of the UST was

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 384 Bluebell Lane (Formerly 741 Bluebell Lane) were less than the SCDHEC RBSLs, which indicated the subsurface was not impacted by COPCs associated with the former UST at concentrations that presented a potential risk to human health and the environment.

3.0 PROPERTY STATUS

Based on the analytical results for soil, SCDHEC made the determination that NFA was required for 384 Bluebell Lane (Formerly 741 Bluebell Lane). This NFA determination was obtained in a letter dated July 1, 2015. SCDHEC's NFA letter is provided in Appendix C.

4.0 REFERENCES

Marine Corps Air Station Beaufort, 2013. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 741 Bluebell Lane, Laurel Bay Military Housing Area*, October 2013.

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
384 Bluebell Lane (Formerly 741 Bluebell Lane)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Results Sample Collected 04/03/13
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)		
Benzene	0.003	ND
Ethylbenzene	1.15	ND
Naphthalene	0.036	ND
Toluene	0.627	ND
Xylenes, Total	13.01	ND
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (mg/kg)		
Benzo(a)anthracene	0.66	0.424
Benzo(b)fluoranthene	0.66	0.508
Benzo(k)fluoranthene	0.66	0.192
Chrysene	0.66	0.485
Dibenz(a,h)anthracene	0.66	0.0446

Notes:

⁽¹⁾ South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 3.0 and 3.1 (SCDHEC, May 2015 and SCDHEC, February 2016) and the Underground Storage Tank Assessment Guidelines (SCDHEC, February 2006).

Bold font indicates the analyte was detected.

Bold font and shading indicates the concentration exceeds the SCDHEC RBSL.

EPA - United States Environmental Protection Agency

mg/kg - milligram per kilogram

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

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

Appendix A
Multi-Media Selection Process for LBMH



Appendix A - Multi-Media Selection Process for LBMH

Appendix B
UST Assessment Report

South Carolina Department of Health and Environmental Control (SCDHEC)
Underground Storage Tank (UST) Assessment Report

Date Received

State Use Only

Submit Completed Form To:

UST Program

SCDHEC

2600 Bull Street

Columbia, South Carolina 29201

Telephone (803) 896-7957

RECEIVED

OCT 23 2014

SC DHEC - Bureau of
 Land & Waste Management

I. OWNERSHIP OF UST (S)

MCAS Beaufort, Commanding Officer Attn: NREAO (Craig Ehde)

Owner Name (Corporation, Individual, Public Agency, Other)

P.O. Box 55001

Mailing Address

Beaufort,

South Carolina

29904-5001

City

State

Zip Code

843

228-7317

Craig Ehde

Area Code

Telephone Number

Contact Person

II. SITE IDENTIFICATION AND LOCATION

Permit I.D. #

Laurel Bay Military Housing Area, Marine Corps Air Station, Beaufort, SC
 Facility Name or Company Site Identifier

741 Bluebell Lane, Laurel Bay Military Housing Area

Street Address or State Road (as applicable)

Beaufort,

Beaufort

City

County

III. INSURANCE INFORMATION

Insurance Statement

The petroleum release reported to DHEC on _____ at Permit ID Number _____ may qualify to receive state monies to pay for appropriate site rehabilitation activities. Before participation is allowed in the State Clean-up fund, written confirmation of the existence or non-existence of an environmental insurance policy is required. **This section must be completed.**

Is there now, or has there ever been an insurance policy or other financial mechanism that covers this UST release? **YES**____ **NO**____ (check one)

If you answered **YES** to the above question, please complete the following information:

My policy provider is: _____

The policy deductible is: _____

The policy limit is: _____

If you have this type of insurance, please include a copy of the policy with this report.

IV. REQUEST FOR SUPERB FUNDING

I **DO** / **DO NOT** wish to participate in the SUPERB Program. (Circle one.)

V. CERTIFICATION (To be signed by the UST owner)

I certify that I have personally examined and am familiar with the information submitted in this and all attached documents; and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.

Name (Type or print.)

Signature

To be completed by Notary Public:

Sworn before me this _____ day of _____, 20____

(Name)

Notary Public for the state of _____
Please affix State seal if you are commissioned outside South Carolina

VI. UST INFORMATION

- A. Product...(ex. Gas, Kerosene).....
- B. Capacity...(ex. 1k, 2k).....
- C. Age.....
- D. Construction Material...(ex. Steel, FRP).....
- E. Month/Year of Last Use.....
- F. Depth (ft.) To Base of Tank.....
- G. Spill Prevention Equipment Y/N.....
- H. Overfill Prevention Equipment Y/N.....
- I. Method of Closure Removed/Filled.....
- J. Date Tanks Removed/Filled.....
- K. Visible Corrosion or Pitting Y/N.....
- L. Visible Holes Y/N.....

741Bluebell		
Heating oil		
280 gal		
Late 1950s		
Steel		
Mid 80s		
5'10"		
No		
No		
Removed		
4/3/2013		
Yes		
Yes		

- M. Method of disposal for any USTs removed from the ground (attach disposal manifests)
UST 741Bluebell was removed from the ground and disposed at a
Subtitle "D" landfill. See Attachment "A".

- N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests)
UST 741Bluebell had been previously filled with sand by others.

- O. If any corrosion, pitting, or holes were observed, describe the location and extent for each UST
Corrosion, pitting and holes were present throughout the tank.

VII. PIPING INFORMATION

A. Construction Material..(ex. Steel, FRP).....

B. Distance from UST to Dispenser.....

C. Number of Dispensers.....

D. Type of System Pressure or Suction.....

E. Was Piping Removed from the Ground? Y/N

F. Visible Corrosion or Pitting Y/N.....

G. Visible Holes Y/N.....

H. Age.....

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

741Bluebell		
Steel & Copper		
N/A		
N/A		
Suction		
No		
Yes		
No		
Late 1950s		

Corrosion and pitting were found on the surface of the steel vent pipe. But the copper supply and return lines were sound.

VIII. BRIEF SITE DESCRIPTION AND HISTORY

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

IX. SITE CONDITIONS

	Yes	No	Unk
<p>A. Were any petroleum-stained or contaminated soils found in the UST excavation, soil borings, trenches, or monitoring wells?</p> <p>If yes, indicate depth and location on the site map.</p>		X	
<p>B. Were any petroleum odors detected in the excavation, soil borings, trenches, or monitoring wells?</p> <p>If yes, indicate location on site map and describe the odor (strong, mild, etc.)</p>		X	
<p>C. Was water present in the UST excavation, soil borings, or trenches?</p> <p>If yes, how far below land surface (indicate location and depth)?</p>		X	
<p>D. Did contaminated soils remain stockpiled on site after closure?</p> <p>If yes, indicate the stockpile location on the site map.</p> <p>Name of DHEC representative authorizing soil removal:</p>		X	
<p>E. Was a petroleum sheen or free product detected on any excavation or boring waters?</p> <p>If yes, indicate location and thickness.</p>		X	

X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 84009

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
741 Bluebell	Excav at fill end	Soil	Sandy	5'10"	4/3/13 1345 hrs	P. Shaw	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

* = Depth Below the Surrounding Land Surface

XI. SAMPLING METHODOLOGY

Provide a detailed description of the methods used to collect and store the samples. Also include the preservative used for each sample. Please use the space provided below.

Sampling was performed in accordance with SC DHEC R.61-92 Part 280 and SC DHEC Assessment Guidelines. Sample containers were prepared by the testing laboratory. The grab method was utilized to fill the sample containers leaving as little head space as possible and immediately capped. Soil samples were extracted from area below tank. The samples were marked, logged, and immediately placed in a sample cooler packed with ice to maintain an approximate temperature of 4 degrees Centigrade. Tools were thoroughly cleaned and decontaminated with the seven step decon process after each use. The samples remained in custody of SBG-EEG, Inc. until they were transferred to Test America Incorporated for analysis as documented in the Chain of Custody Record.

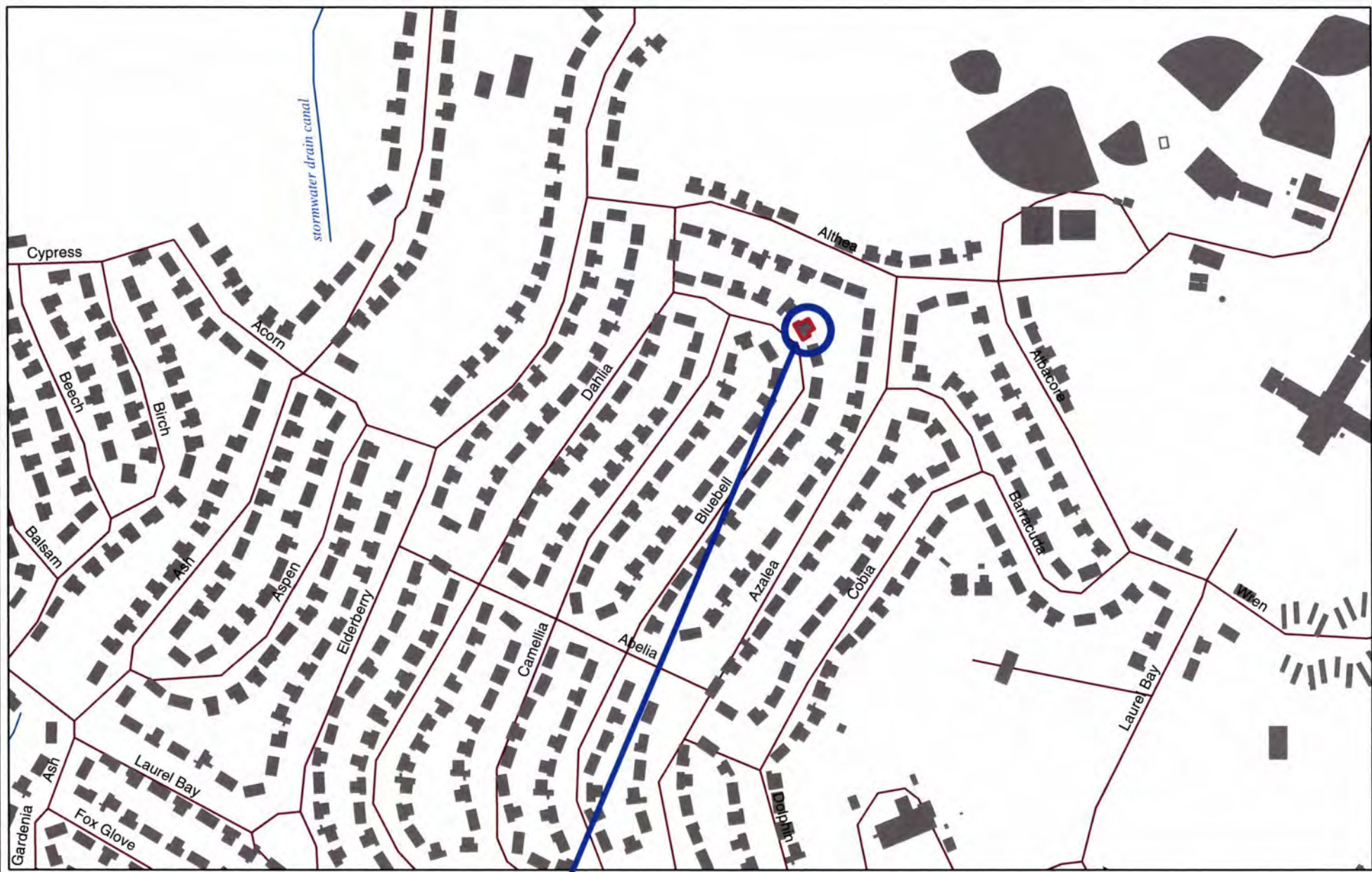
XII. RECEPTORS

	Yes	No
<p>A. Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?</p> <p>If yes, indicate type of receptor, distance, and direction on site map.</p>		X
<p>B. Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?</p> <p>If yes, indicate type of well, distance, and direction on site map.</p>		X
<p>C. Are there any underground structures (e.g., basements) Located within 100 feet of the UST system?</p> <p>If yes, indicate type of structure, distance, and direction on site map.</p>		X
<p>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?</p> <p style="padding-left: 150px;">*Sewer, water, electricity, cable, fiber optic & geothermal</p> <p>If yes, indicate the type of utility, distance, and direction on the site map.</p>	*X	
<p>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?</p> <p>If yes, indicate the area of contaminated soil on the site map.</p>		X

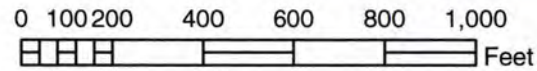
XIII. SITE MAP

You must supply a scaled site map. It should include all buildings, road names, utilities, tank and dispenser island locations, labeled sample locations, extent of excavation, and any other pertinent information.

(Attach Site Map Here)



741 BLUEBELL



SBG-EEG, Inc.

7301 Rivers Ave., Suite 245
N. Charleston SC 29406-9643

Ph. (843) 573-7140


Drawn By: L. DiAsio

Dwg Date: Apr 2013

**FIGURE 1: LOCATION MAP
741 BLUEBELL LANE
LAUREL BAY, BEAUFORT SC**



741 BLUEBELL LN.
LAUREL BAY MILITARY HOUSING
MCAS BEAUFORT, SC

 UST 741BLUEBELL

GRAPHIC SCALE

0 5' 10' 20'

TANK DEPTH BELOW GRADE
741BLUEBELL = 43"

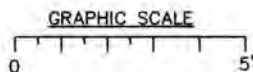
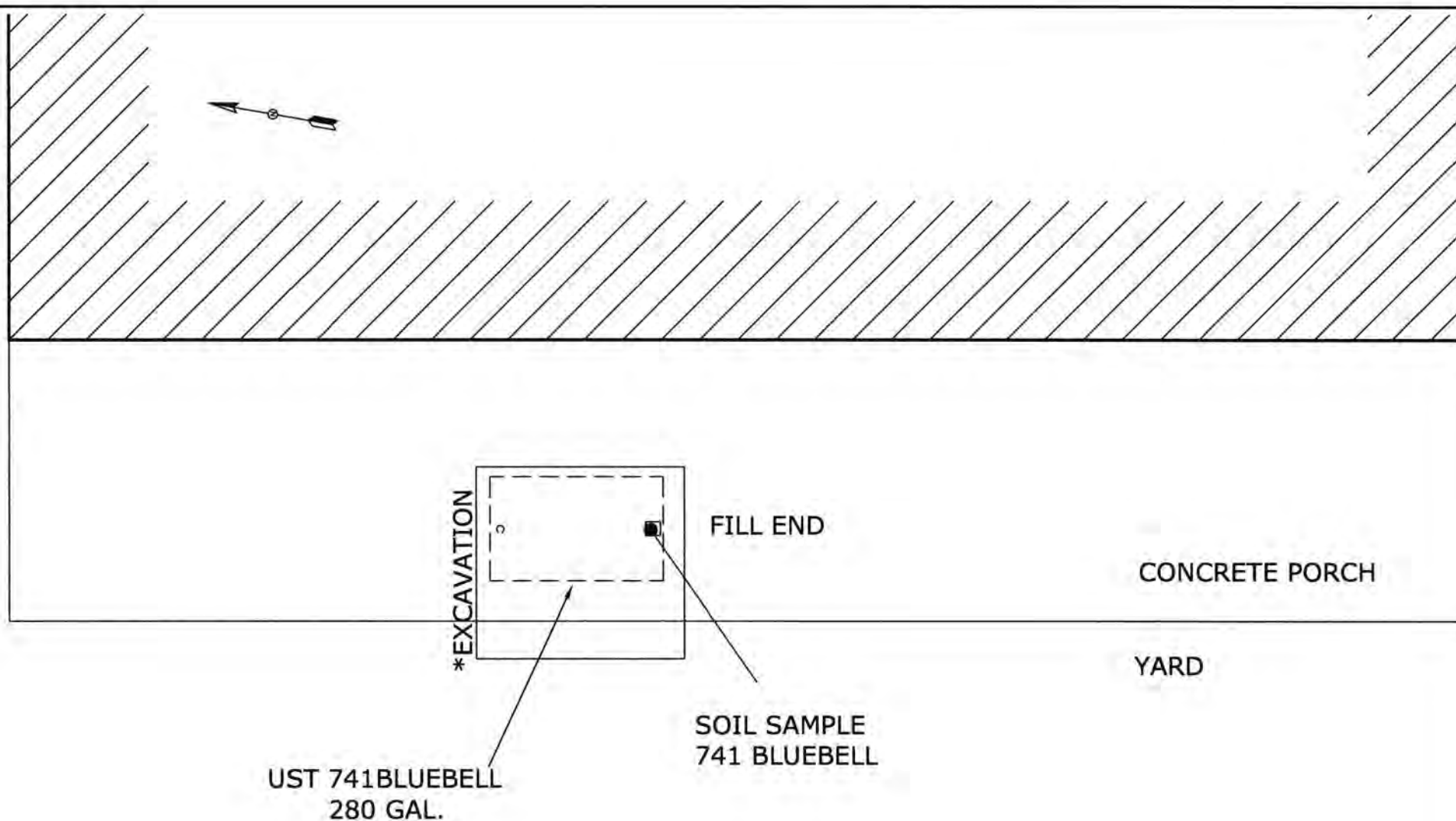
SBG-EEG

7301 RIVERS AVE., SUITE 245
N. CHARLESTON SC 29406-9643
(843) 573-7140

FIGURE 2 SITE MAP
741 BLUEBELL LN., LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE APR 2013



*A PORTION OF THE PORCH
WAS REMOVED TO FACILITATE
EXTRACTING THE TANK.

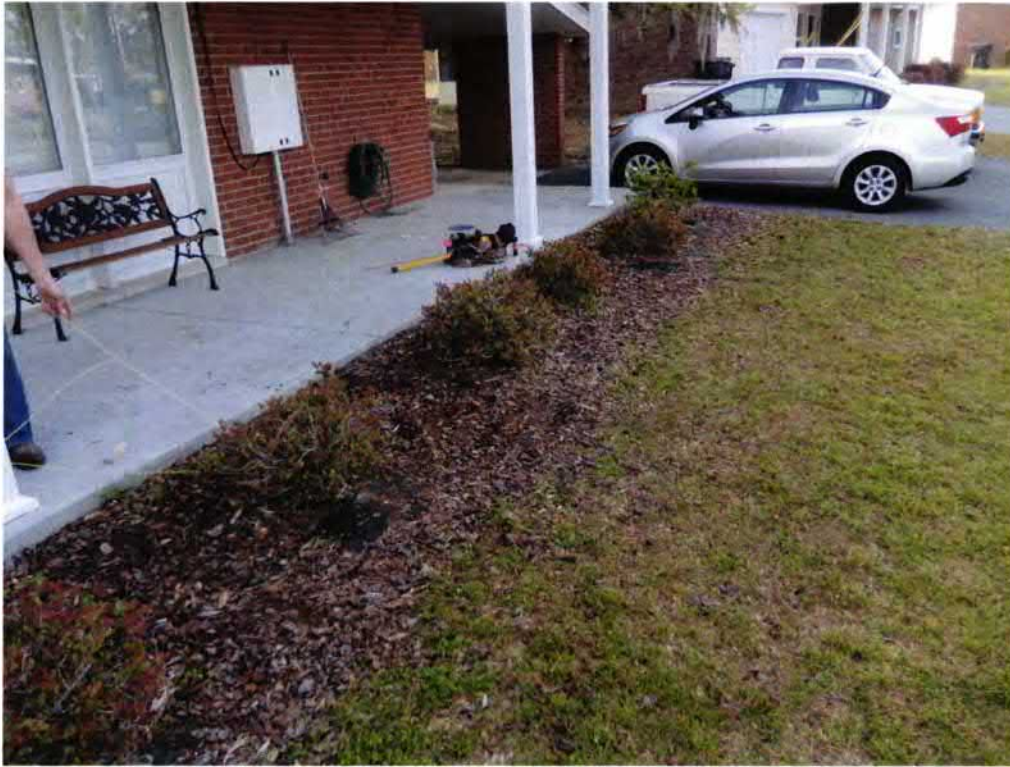
SBG-EEG

7301 RIVERS AVE., SUITE 245
N. CHARLESTON SC 29406-9643
(843) 573-7140

FIGURE 3 UST SAMPLE LOCATIONS
741 BLUEBELL LN., LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE APR 2013



Picture 1: Location of UST 741Bluebell.



Picture 2: UST 741Bluebell 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	741Bluebell					
Benzene		ND					
Toluene		ND					
Ethylbenzene		ND					
Xylenes		ND					
Naphthalene		ND					
Benzo (a) anthracene		0.424 mg/kg					
Benzo (b) fluoranthene		0.508 mg/kg					
Benzo (k) fluoranthene		0.192 mg/kg					
Chrysene		0.485 mg/kg					
Dibenz (a, h) anthracene		0.0446 mg/kg					
TPH (EPA 3550)							

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

SUMMARY OF ANALYSIS RESULTS (cont'd)

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

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

XV. ANALYTICAL RESULTS

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

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

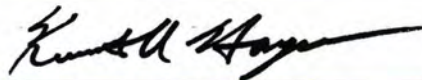
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-23941-1

Client Project/Site: Laurel Bay Housing Project

For:
Environmental Enterprise Group
10179 Highway 78
Ladson, South Carolina 29456

Attn: Mr. Tom McElwee



Authorized for release by:
4/23/2013 10:13:01 AM

Ken Hayes
Project Manager I
ken.hayes@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.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.

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Sample Summary

Client: Environmental Enterprise Group
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-23941-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-23941-1	755 Althea	Solid	04/01/13 14:15	04/10/13 08:15
490-23941-2	925 Albacore	Solid	04/02/13 13:45	04/10/13 08:15
490-23941-3	741 Bluebell	Solid	04/03/13 13:45	04/10/13 08:15

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Case Narrative

Client: Environmental Enterprise Group
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-23941-1

Job ID: 490-23941-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-23941-1

Comments

No additional comments.

Receipt

The samples were received on 4/10/2013 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.8° C.

GC/MS VOA

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) percent recoveries and %RPD for batch 71628 were outside control limits. This is attributed to: internal standard failure. MS/MSD was not reportable. See LCS/LCSD for batch precision.

No other analytical or quality issues were noted.

GC/MS Semi VOA

No analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

VOA Prep

No analytical or quality issues were noted.

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Definitions/Glossary

Client: Environmental Enterprise Group
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-23941-1

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.

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)
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)
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: Environmental Enterprise Group
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-23941-1

Client Sample ID: 755 Althea

Date Collected: 04/01/13 14:15

Date Received: 04/10/13 08:15

Lab Sample ID: 490-23941-1

Matrix: Solid

Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00273	0.000913	mg/Kg	☒	04/11/13 10:57	04/11/13 17:01	1
Ethylbenzene	ND		0.00273	0.000913	mg/Kg	☒	04/11/13 10:57	04/11/13 17:01	1
Naphthalene	ND		0.00682	0.00232	mg/Kg	☒	04/11/13 10:57	04/11/13 17:01	1
Toluene	0.00105	J	0.00273	0.00101	mg/Kg	☒	04/11/13 10:57	04/11/13 17:01	1
Xylenes, Total	ND		0.00682	0.000913	mg/Kg	☒	04/11/13 10:57	04/11/13 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		70 - 130	04/11/13 10:57	04/11/13 17:01	1
4-Bromofluorobenzene (Surr)	102		70 - 130	04/11/13 10:57	04/11/13 17:01	1
Dibromofluoromethane (Surr)	119		70 - 130	04/11/13 10:57	04/11/13 17:01	1
Toluene-d8 (Surr)	93		70 - 130	04/11/13 10:57	04/11/13 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0854	0.0128	mg/Kg	☒	04/11/13 11:28	04/12/13 00:44	1
Acenaphthylene	ND		0.0854	0.0115	mg/Kg	☒	04/11/13 11:28	04/12/13 00:44	1
Anthracene	ND		0.0854	0.0115	mg/Kg	☒	04/11/13 11:28	04/12/13 00:44	1
Benzo[a]anthracene	ND		0.0854	0.0191	mg/Kg	☒	04/11/13 11:28	04/12/13 00:44	1
Benzo[a]pyrene	ND		0.0854	0.0153	mg/Kg	☒	04/11/13 11:28	04/12/13 00:44	1
Benzo[b]fluoranthene	ND		0.0854	0.0153	mg/Kg	☒	04/11/13 11:28	04/12/13 00:44	1
Benzo[g,h,i]perylene	ND		0.0854	0.0115	mg/Kg	☒	04/11/13 11:28	04/12/13 00:44	1
Benzo[k]fluoranthene	ND		0.0854	0.0179	mg/Kg	☒	04/11/13 11:28	04/12/13 00:44	1
1-Methylnaphthalene	ND		0.0854	0.0179	mg/Kg	☒	04/11/13 11:28	04/12/13 00:44	1
Pyrene	ND		0.0854	0.0153	mg/Kg	☒	04/11/13 11:28	04/12/13 00:44	1
Phenanthrene	ND		0.0854	0.0115	mg/Kg	☒	04/11/13 11:28	04/12/13 00:44	1
Chrysene	ND		0.0854	0.0115	mg/Kg	☒	04/11/13 11:28	04/12/13 00:44	1
Dibenz(a,h)anthracene	ND		0.0854	0.00893	mg/Kg	☒	04/11/13 11:28	04/12/13 00:44	1
Fluoranthene	ND		0.0854	0.0115	mg/Kg	☒	04/11/13 11:28	04/12/13 00:44	1
Fluorene	ND		0.0854	0.0153	mg/Kg	☒	04/11/13 11:28	04/12/13 00:44	1
Indeno[1,2,3-cd]pyrene	ND		0.0854	0.0128	mg/Kg	☒	04/11/13 11:28	04/12/13 00:44	1
Naphthalene	ND		0.0854	0.0115	mg/Kg	☒	04/11/13 11:28	04/12/13 00:44	1
2-Methylnaphthalene	ND		0.0854	0.0204	mg/Kg	☒	04/11/13 11:28	04/12/13 00:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	54		29 - 120	04/11/13 11:28	04/12/13 00:44	1
Terphenyl-d14 (Surr)	65		13 - 120	04/11/13 11:28	04/12/13 00:44	1
Nitrobenzene-d5 (Surr)	62		27 - 120	04/11/13 11:28	04/12/13 00:44	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78		0.10	0.10	%			04/11/13 09:13	1

TestAmerica Nashville

Client Sample Results

Client: Environmental Enterprise Group
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-23941-1

Client Sample ID: 925 Albacore

Date Collected: 04/02/13 13:45

Date Received: 04/10/13 08:15

Lab Sample ID: 490-23941-2

Matrix: Solid

Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00267	0.000896	mg/Kg	☒	04/11/13 10:57	04/11/13 17:31	1
Ethylbenzene	ND		0.00267	0.000896	mg/Kg	☒	04/11/13 10:57	04/11/13 17:31	1
Naphthalene	ND		0.00669	0.00227	mg/Kg	☒	04/11/13 10:57	04/11/13 17:31	1
Toluene	ND		0.00267	0.000989	mg/Kg	☒	04/11/13 10:57	04/11/13 17:31	1
Xylenes, Total	ND		0.00669	0.000896	mg/Kg	☒	04/11/13 10:57	04/11/13 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		70 - 130	04/11/13 10:57	04/11/13 17:31	1
4-Bromofluorobenzene (Surr)	101		70 - 130	04/11/13 10:57	04/11/13 17:31	1
Dibromofluoromethane (Surr)	117		70 - 130	04/11/13 10:57	04/11/13 17:31	1
Toluene-d8 (Surr)	93		70 - 130	04/11/13 10:57	04/11/13 17:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0747	0.0111	mg/Kg	☒	04/11/13 11:28	04/12/13 01:06	1
Acenaphthylene	ND		0.0747	0.0100	mg/Kg	☒	04/11/13 11:28	04/12/13 01:06	1
Anthracene	ND		0.0747	0.0100	mg/Kg	☒	04/11/13 11:28	04/12/13 01:06	1
Benzo[a]anthracene	ND		0.0747	0.0167	mg/Kg	☒	04/11/13 11:28	04/12/13 01:06	1
Benzo[a]pyrene	ND		0.0747	0.0134	mg/Kg	☒	04/11/13 11:28	04/12/13 01:06	1
Benzo[b]fluoranthene	ND		0.0747	0.0134	mg/Kg	☒	04/11/13 11:28	04/12/13 01:06	1
Benzo[g,h,i]perylene	ND		0.0747	0.0100	mg/Kg	☒	04/11/13 11:28	04/12/13 01:06	1
Benzo[k]fluoranthene	ND		0.0747	0.0156	mg/Kg	☒	04/11/13 11:28	04/12/13 01:06	1
1-Methylnaphthalene	ND		0.0747	0.0156	mg/Kg	☒	04/11/13 11:28	04/12/13 01:06	1
Pyrene	ND		0.0747	0.0134	mg/Kg	☒	04/11/13 11:28	04/12/13 01:06	1
Phenanthrene	ND		0.0747	0.0100	mg/Kg	☒	04/11/13 11:28	04/12/13 01:06	1
Chrysene	ND		0.0747	0.0100	mg/Kg	☒	04/11/13 11:28	04/12/13 01:06	1
Dibenz(a,h)anthracene	ND		0.0747	0.00780	mg/Kg	☒	04/11/13 11:28	04/12/13 01:06	1
Fluoranthene	ND		0.0747	0.0100	mg/Kg	☒	04/11/13 11:28	04/12/13 01:06	1
Fluorene	ND		0.0747	0.0134	mg/Kg	☒	04/11/13 11:28	04/12/13 01:06	1
Indeno[1,2,3-cd]pyrene	ND		0.0747	0.0111	mg/Kg	☒	04/11/13 11:28	04/12/13 01:06	1
Naphthalene	ND		0.0747	0.0100	mg/Kg	☒	04/11/13 11:28	04/12/13 01:06	1
2-Methylnaphthalene	ND		0.0747	0.0178	mg/Kg	☒	04/11/13 11:28	04/12/13 01:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	40		29 - 120	04/11/13 11:28	04/12/13 01:06	1
Terphenyl-d14 (Surr)	40		13 - 120	04/11/13 11:28	04/12/13 01:06	1
Nitrobenzene-d5 (Surr)	45		27 - 120	04/11/13 11:28	04/12/13 01:06	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88		0.10	0.10	%			04/11/13 09:13	1

TestAmerica Nashville

Client Sample Results

Client: Environmental Enterprise Group
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-23941-1

Client Sample ID: 741 Bluebell

Lab Sample ID: 490-23941-3

Date Collected: 04/03/13 13:45

Matrix: Solid

Date Received: 04/10/13 08:15

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00288	0.000965	mg/Kg	✱	04/11/13 10:57	04/11/13 18:01	1
Ethylbenzene	ND		0.00288	0.000965	mg/Kg	✱	04/11/13 10:57	04/11/13 18:01	1
Naphthalene	ND		0.00720	0.00245	mg/Kg	✱	04/11/13 10:57	04/11/13 18:01	1
Toluene	ND		0.00288	0.00107	mg/Kg	✱	04/11/13 10:57	04/11/13 18:01	1
Xylenes, Total	ND		0.00720	0.000965	mg/Kg	✱	04/11/13 10:57	04/11/13 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		70 - 130	04/11/13 10:57	04/11/13 18:01	1
4-Bromofluorobenzene (Surr)	103		70 - 130	04/11/13 10:57	04/11/13 18:01	1
Dibromofluoromethane (Surr)	120		70 - 130	04/11/13 10:57	04/11/13 18:01	1
Toluene-d8 (Surr)	91		70 - 130	04/11/13 10:57	04/11/13 18:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0776	0.0116	mg/Kg	✱	04/11/13 11:28	04/11/13 23:38	1
Acenaphthylene	ND		0.0776	0.0104	mg/Kg	✱	04/11/13 11:28	04/11/13 23:38	1
Anthracene	ND		0.0776	0.0104	mg/Kg	✱	04/11/13 11:28	04/11/13 23:38	1
Benzo[a]anthracene	0.424		0.0776	0.0174	mg/Kg	✱	04/11/13 11:28	04/11/13 23:38	1
Benzo[a]pyrene	0.254		0.0776	0.0139	mg/Kg	✱	04/11/13 11:28	04/11/13 23:38	1
Benzo[b]fluoranthene	0.508		0.0776	0.0139	mg/Kg	✱	04/11/13 11:28	04/11/13 23:38	1
Benzo[g,h,i]perylene	0.124		0.0776	0.0104	mg/Kg	✱	04/11/13 11:28	04/11/13 23:38	1
Benzo[k]fluoranthene	0.192		0.0776	0.0162	mg/Kg	✱	04/11/13 11:28	04/11/13 23:38	1
1-Methylnaphthalene	ND		0.0776	0.0162	mg/Kg	✱	04/11/13 11:28	04/11/13 23:38	1
Pyrene	0.609		0.0776	0.0139	mg/Kg	✱	04/11/13 11:28	04/11/13 23:38	1
Phenanthrene	0.0455	J	0.0776	0.0104	mg/Kg	✱	04/11/13 11:28	04/11/13 23:38	1
Chrysene	0.485		0.0776	0.0104	mg/Kg	✱	04/11/13 11:28	04/11/13 23:38	1
Dibenz(a,h)anthracene	0.0446	J	0.0776	0.00811	mg/Kg	✱	04/11/13 11:28	04/11/13 23:38	1
Fluoranthene	0.489		0.0776	0.0104	mg/Kg	✱	04/11/13 11:28	04/11/13 23:38	1
Fluorene	ND		0.0776	0.0139	mg/Kg	✱	04/11/13 11:28	04/11/13 23:38	1
Indeno[1,2,3-cd]pyrene	0.115		0.0776	0.0116	mg/Kg	✱	04/11/13 11:28	04/11/13 23:38	1
Naphthalene	ND		0.0776	0.0104	mg/Kg	✱	04/11/13 11:28	04/11/13 23:38	1
2-Methylnaphthalene	ND		0.0776	0.0185	mg/Kg	✱	04/11/13 11:28	04/11/13 23:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	57		29 - 120	04/11/13 11:28	04/11/13 23:38	1
Terphenyl-d14 (Surr)	77		13 - 120	04/11/13 11:28	04/11/13 23:38	1
Nitrobenzene-d5 (Surr)	57		27 - 120	04/11/13 11:28	04/11/13 23:38	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84		0.10	0.10	%			04/11/13 09:13	1

TestAmerica Nashville

QC Sample Results

Client: Environmental Enterprise Group
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-23941-1

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

Lab Sample ID: MB 490-71628/7

Matrix: Solid

Analysis Batch: 71628

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000670	mg/Kg			04/11/13 13:02	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			04/11/13 13:02	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			04/11/13 13:02	1
Toluene	ND		0.00200	0.000740	mg/Kg			04/11/13 13:02	1
Xylenes, Total	ND		0.00500	0.000670	mg/Kg			04/11/13 13:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		70 - 130		04/11/13 13:02	1
4-Bromofluorobenzene (Surr)	103		70 - 130		04/11/13 13:02	1
Dibromofluoromethane (Surr)	117		70 - 130		04/11/13 13:02	1
Toluene-d8 (Surr)	93		70 - 130		04/11/13 13:02	1

Lab Sample ID: LCS 490-71628/3

Matrix: Solid

Analysis Batch: 71628

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.05800		mg/Kg		116	75 - 127
Ethylbenzene	0.0500	0.05615		mg/Kg		112	80 - 134
Naphthalene	0.0500	0.04585		mg/Kg		92	69 - 150
Toluene	0.0500	0.05455		mg/Kg		109	80 - 132
Xylenes, Total	0.150	0.1634		mg/Kg		109	80 - 137

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
4-Bromofluorobenzene (Surr)	95		70 - 130
Dibromofluoromethane (Surr)	105		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: LCSD 490-71628/4

Matrix: Solid

Analysis Batch: 71628

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.06098		mg/Kg		122	75 - 127	5	50
Ethylbenzene	0.0500	0.05982		mg/Kg		120	80 - 134	6	50
Naphthalene	0.0500	0.04598		mg/Kg		92	69 - 150	0	50
Toluene	0.0500	0.05759		mg/Kg		115	80 - 132	5	50
Xylenes, Total	0.150	0.1735		mg/Kg		116	80 - 137	6	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
4-Bromofluorobenzene (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	105		70 - 130
Toluene-d8 (Surr)	100		70 - 130

TestAmerica Nashville

QC Sample Results

Client: Environmental Enterprise Group
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-23941-1

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

Lab Sample ID: MB 490-71712/1-A

Matrix: Solid

Analysis Batch: 71697

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 71712

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0100	mg/Kg		04/11/13 11:28	04/11/13 23:16	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		04/11/13 11:28	04/11/13 23:16	1
Anthracene	ND		0.0670	0.00900	mg/Kg		04/11/13 11:28	04/11/13 23:16	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		04/11/13 11:28	04/11/13 23:16	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		04/11/13 11:28	04/11/13 23:16	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		04/11/13 11:28	04/11/13 23:16	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		04/11/13 11:28	04/11/13 23:16	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		04/11/13 11:28	04/11/13 23:16	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		04/11/13 11:28	04/11/13 23:16	1
Pyrene	ND		0.0670	0.0120	mg/Kg		04/11/13 11:28	04/11/13 23:16	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		04/11/13 11:28	04/11/13 23:16	1
Chrysene	ND		0.0670	0.00900	mg/Kg		04/11/13 11:28	04/11/13 23:16	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		04/11/13 11:28	04/11/13 23:16	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg		04/11/13 11:28	04/11/13 23:16	1
Fluorene	ND		0.0670	0.0120	mg/Kg		04/11/13 11:28	04/11/13 23:16	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		04/11/13 11:28	04/11/13 23:16	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		04/11/13 11:28	04/11/13 23:16	1
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		04/11/13 11:28	04/11/13 23:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	52		29 - 120	04/11/13 11:28	04/11/13 23:16	1
Terphenyl-d14 (Surr)	77		13 - 120	04/11/13 11:28	04/11/13 23:16	1
Nitrobenzene-d5 (Surr)	48		27 - 120	04/11/13 11:28	04/11/13 23:16	1

Lab Sample ID: LCS 490-71712/2-A

Matrix: Solid

Analysis Batch: 71697

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 71712

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	3.33	2.038		mg/Kg		61	38 - 120
Anthracene	3.33	2.138		mg/Kg		64	46 - 124
Benzo[a]anthracene	3.33	2.077		mg/Kg		62	45 - 120
Benzo[a]pyrene	3.33	2.129		mg/Kg		64	45 - 120
Benzo[b]fluoranthene	3.33	2.136		mg/Kg		64	42 - 120
Benzo[g,h,i]perylene	3.33	2.084		mg/Kg		63	38 - 120
Benzo[k]fluoranthene	3.33	2.132		mg/Kg		64	42 - 120
1-Methylnaphthalene	3.33	1.951		mg/Kg		59	32 - 120
Pyrene	3.33	2.187		mg/Kg		66	43 - 120
Phenanthrene	3.33	2.148		mg/Kg		64	45 - 120
Chrysene	3.33	2.056		mg/Kg		62	43 - 120
Dibenz(a,h)anthracene	3.33	2.084		mg/Kg		63	32 - 128
Fluoranthene	3.33	1.996		mg/Kg		60	46 - 120
Fluorene	3.33	2.073		mg/Kg		62	42 - 120
Indeno[1,2,3-cd]pyrene	3.33	2.138		mg/Kg		64	41 - 121
Naphthalene	3.33	1.688		mg/Kg		51	32 - 120
2-Methylnaphthalene	3.33	2.001		mg/Kg		60	28 - 120

TestAmerica Nashville

QC Sample Results

Client: Environmental Enterprise Group
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-23941-1

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

Lab Sample ID: LCS 490-71712/2-A

Matrix: Solid

Analysis Batch: 71697

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 71712

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	53		29 - 120
Terphenyl-d14 (Surr)	69		13 - 120
Nitrobenzene-d5 (Surr)	49		27 - 120

Lab Sample ID: 490-23941-3 MS

Matrix: Solid

Analysis Batch: 71697

Client Sample ID: 741 Bluebell

Prep Type: Total/NA

Prep Batch: 71712

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	ND		1.97	1.360		mg/Kg	☒	69	25 - 120
Anthracene	ND		1.97	1.378		mg/Kg	☒	70	28 - 125
Benzo[a]anthracene	0.424		1.97	1.420		mg/Kg	☒	51	23 - 120
Benzo[a]pyrene	0.254		1.97	1.365		mg/Kg	☒	56	15 - 128
Benzo[b]fluoranthene	0.508		1.97	1.449		mg/Kg	☒	48	12 - 133
Benzo[g,h,i]perylene	0.124		1.97	1.294		mg/Kg	☒	59	22 - 120
Benzo[k]fluoranthene	0.192		1.97	1.532		mg/Kg	☒	68	28 - 120
1-Methylnaphthalene	ND		1.97	1.333		mg/Kg	☒	68	10 - 120
Pyrene	0.609		1.97	1.642		mg/Kg	☒	52	20 - 123
Phenanthrene	0.0455	J	1.97	1.392		mg/Kg	☒	68	21 - 122
Chrysene	0.485		1.97	1.483		mg/Kg	☒	51	20 - 120
Dibenz(a,h)anthracene	0.0446	J	1.97	1.296		mg/Kg	☒	64	12 - 128
Fluoranthene	0.489		1.97	1.538		mg/Kg	☒	53	10 - 143
Fluorene	ND		1.97	1.317		mg/Kg	☒	67	20 - 120
Indeno[1,2,3-cd]pyrene	0.115		1.97	1.304		mg/Kg	☒	60	22 - 121
Naphthalene	ND		1.97	1.193		mg/Kg	☒	61	10 - 120
2-Methylnaphthalene	ND		1.97	1.449		mg/Kg	☒	74	13 - 120

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	60		29 - 120
Terphenyl-d14 (Surr)	78		13 - 120
Nitrobenzene-d5 (Surr)	59		27 - 120

Lab Sample ID: 490-23941-3 MSD

Matrix: Solid

Analysis Batch: 71697

Client Sample ID: 741 Bluebell

Prep Type: Total/NA

Prep Batch: 71712

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Acenaphthylene	ND		1.96	1.391		mg/Kg	☒	71	25 - 120	2	50
Anthracene	ND		1.96	1.398		mg/Kg	☒	71	28 - 125	1	49
Benzo[a]anthracene	0.424		1.96	1.404		mg/Kg	☒	50	23 - 120	1	50
Benzo[a]pyrene	0.254		1.96	1.392		mg/Kg	☒	58	15 - 128	2	50
Benzo[b]fluoranthene	0.508		1.96	1.510		mg/Kg	☒	51	12 - 133	4	50
Benzo[g,h,i]perylene	0.124		1.96	1.293		mg/Kg	☒	60	22 - 120	0	50
Benzo[k]fluoranthene	0.192		1.96	1.501		mg/Kg	☒	67	28 - 120	2	45
1-Methylnaphthalene	ND		1.96	1.419		mg/Kg	☒	72	10 - 120	6	50
Pyrene	0.609		1.96	1.625		mg/Kg	☒	52	20 - 123	1	50
Phenanthrene	0.0455	J	1.96	1.421		mg/Kg	☒	70	21 - 122	2	50
Chrysene	0.485		1.96	1.385		mg/Kg	☒	46	20 - 120	7	49

TestAmerica Nashville

QC Sample Results

Client: Environmental Enterprise Group
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-23941-1

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

Lab Sample ID: 490-23941-3 MSD

Matrix: Solid

Analysis Batch: 71697

Client Sample ID: 741 Bluebell

Prep Type: Total/NA

Prep Batch: 71712

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibenz(a,h)anthracene	0.0446	J	1.96	1.323		mg/Kg	☒	65	12 - 128	2	50
Fluoranthene	0.489		1.96	1.409		mg/Kg	☒	47	10 - 143	9	50
Fluorene	ND		1.96	1.357		mg/Kg	☒	69	20 - 120	3	50
Indeno[1,2,3-cd]pyrene	0.115		1.96	1.297		mg/Kg	☒	60	22 - 121	1	50
Naphthalene	ND		1.96	1.225		mg/Kg	☒	62	10 - 120	3	50
2-Methylnaphthalene	ND		1.96	1.449		mg/Kg	☒	74	13 - 120	0	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	60		29 - 120
Terphenyl-d14 (Surr)	75		13 - 120
Nitrobenzene-d5 (Surr)	58		27 - 120

Method: Moisture - Percent Moisture

Lab Sample ID: 490-23941-1 DU

Matrix: Solid

Analysis Batch: 71624

Client Sample ID: 755 Althea

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	78		76		%		2	20

TestAmerica Nashville

QC Association Summary

Client: Environmental Enterprise Group
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-23941-1

GC/MS VOA

Analysis Batch: 71628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23941-1	755 Althea	Total/NA	Solid	8260B	71690
490-23941-2	925 Albacore	Total/NA	Solid	8260B	71690
490-23941-3	741 Bluebell	Total/NA	Solid	8260B	71690
LCS 490-71628/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-71628/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-71628/7	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 71690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23941-1	755 Althea	Total/NA	Solid	5035	
490-23941-2	925 Albacore	Total/NA	Solid	5035	
490-23941-3	741 Bluebell	Total/NA	Solid	5035	

GC/MS Semi VOA

Analysis Batch: 71697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23941-1	755 Althea	Total/NA	Solid	8270D	71712
490-23941-2	925 Albacore	Total/NA	Solid	8270D	71712
490-23941-3	741 Bluebell	Total/NA	Solid	8270D	71712
490-23941-3 MS	741 Bluebell	Total/NA	Solid	8270D	71712
490-23941-3 MSD	741 Bluebell	Total/NA	Solid	8270D	71712
LCS 490-71712/2-A	Lab Control Sample	Total/NA	Solid	8270D	71712
MB 490-71712/1-A	Method Blank	Total/NA	Solid	8270D	71712

Prep Batch: 71712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23941-1	755 Althea	Total/NA	Solid	3550C	
490-23941-2	925 Albacore	Total/NA	Solid	3550C	
490-23941-3	741 Bluebell	Total/NA	Solid	3550C	
490-23941-3 MS	741 Bluebell	Total/NA	Solid	3550C	
490-23941-3 MSD	741 Bluebell	Total/NA	Solid	3550C	
LCS 490-71712/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-71712/1-A	Method Blank	Total/NA	Solid	3550C	

General Chemistry

Analysis Batch: 71624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23941-1	755 Althea	Total/NA	Solid	Moisture	
490-23941-1 DU	755 Althea	Total/NA	Solid	Moisture	
490-23941-2	925 Albacore	Total/NA	Solid	Moisture	
490-23941-3	741 Bluebell	Total/NA	Solid	Moisture	

TestAmerica Nashville

Lab Chronicle

Client: Environmental Enterprise Group
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-23941-1

Client Sample ID: 755 Althea

Date Collected: 04/01/13 14:15

Date Received: 04/10/13 08:15

Lab Sample ID: 490-23941-1

Matrix: Solid

Percent Solids: 78.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			71690	04/11/13 10:57	ML	TAL NSH
Total/NA	Analysis	8260B		1	71628	04/11/13 17:01	MH	TAL NSH
Total/NA	Prep	3550C			71712	04/11/13 11:28	JP	TAL NSH
Total/NA	Analysis	8270D		1	71697	04/12/13 00:44	KP	TAL NSH
Total/NA	Analysis	Moisture		1	71624	04/11/13 09:13	RS	TAL NSH

Client Sample ID: 925 Albacore

Date Collected: 04/02/13 13:45

Date Received: 04/10/13 08:15

Lab Sample ID: 490-23941-2

Matrix: Solid

Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			71690	04/11/13 10:57	ML	TAL NSH
Total/NA	Analysis	8260B		1	71628	04/11/13 17:31	MH	TAL NSH
Total/NA	Prep	3550C			71712	04/11/13 11:28	JP	TAL NSH
Total/NA	Analysis	8270D		1	71697	04/12/13 01:06	KP	TAL NSH
Total/NA	Analysis	Moisture		1	71624	04/11/13 09:13	RS	TAL NSH

Client Sample ID: 741 Bluebell

Date Collected: 04/03/13 13:45

Date Received: 04/10/13 08:15

Lab Sample ID: 490-23941-3

Matrix: Solid

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			71690	04/11/13 10:57	ML	TAL NSH
Total/NA	Analysis	8260B		1	71628	04/11/13 18:01	MH	TAL NSH
Total/NA	Prep	3550C			71712	04/11/13 11:28	JP	TAL NSH
Total/NA	Analysis	8270D		1	71697	04/11/13 23:38	KP	TAL NSH
Total/NA	Analysis	Moisture		1	71624	04/11/13 09:13	RS	TAL NSH

Laboratory References:

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

Method Summary

Client: Environmental Enterprise Group
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-23941-1

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

Certification Summary

Client: Environmental Enterprise Group
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-23941-1

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
	ACIL		393	10-30-13
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alabama	State Program	4	41150	05-31-13
Alaska (UST)	State Program	10	UST-087	07-24-13
Arizona	State Program	9	AZ0473	05-05-13
Arkansas DEQ	State Program	6	88-0737	04-25-13
California	NELAP	9	1168CA	10-31-13
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAP	4	E87358	06-30-13
Illinois	NELAP	5	200010	12-09-13
Iowa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-13
Kentucky (UST)	State Program	4	19	09-15-13
Louisiana	NELAP	6	30613	06-30-13
Maryland	State Program	3	316	03-31-14
Massachusetts	State Program	1	M-TN032	06-30-13
Minnesota	NELAP	5	047-999-345	12-31-13
Mississippi	State Program	4	N/A	06-30-13
Montana (UST)	State Program	8	NA	01-01-15
Nevada	State Program	9	TN00032	07-31-13
New Hampshire	NELAP	1	2963	10-10-13
New Jersey	NELAP	2	TN965	06-30-13
New York	NELAP	2	11342	04-01-14
North Carolina DENR	State Program	4	387	12-31-13
North Dakota	State Program	8	R-146	06-30-13
Ohio VAP	State Program	5	CL0033	01-19-14
Oregon	NELAP	10	TN200001	04-30-13
Pennsylvania	NELAP	3	68-00585	06-30-13
Rhode Island	State Program	1	LAO00268	12-30-13
South Carolina	State Program	4	84009 (001)	04-30-14 *
South Carolina	State Program	4	84009 (002)	02-23-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-13
USDA	Federal		S-48469	11-02-13
Utah	NELAP	8	TAN	06-30-13
Virginia	NELAP	3	460152	06-14-13
Washington	State Program	10	C789	07-19-13
West Virginia DEP	State Program	3	219	02-28-14
Wisconsin	State Program	5	998020430	08-31-13
Wyoming (UST)	A2LA	8	453.07	12-31-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Nashville

COOLER RECEIPT FORM



490-23941 Chain of Custody

Cooler Received/Opened On : 04/10/13 @ 0815

Tracking # 9880 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun ID: 95610068

1. Temperature of rep. sample or temp blank when opened: 4.8 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (Initial) EA

7. Were custody seals on containers: YES NO and Intact YES NO NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (Initial) EA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (Initial) EA

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (Initial) EA

I certify that I attached a label with the unique LIMS number to each container (Initial) EA

21. Were there Non-Conformance Issues at login? YES...NO Was a NCM generated? YES...NO..#

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Name/Account #: EEG - SBG # 2449

Address: 10179 Highway 78

City/State/Zip: Ladson, SC 29456

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

Telephone Number: 843.412.2097

Project Name: (Print) Chris Tustall

Sampler Signature: [Signature]

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

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

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?

Compliance Monitoring?
Enforcement Action?

Yes ___ No ___
Yes ___ No ___

Site State: SC

PO#: 1035

TA Quote #:

Project ID: Laurel Bay Housing Project

Project #:

Analyze For:

Loc: 490
23941

Pre-Schedule

Standard TAT

Fax Results

Send QC with report

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Ice	HNO ₃ (Red Label)	H ₂ SO ₄ (Orange Label)	NaOH (Orange Label)	H ₂ SO ₄ Plastic (Yellow Label)	H ₂ SO ₄ Glass (Yellow Label)	None (Black Label)	Other (Specify)	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (Specify)	BTEX + Napth - 8260	PAH - 8270D
755 A144EA	4/11/13	1415	5	X									21								X	X
925 Alpacora	4/31/13	1345	5	X									21								X	X
741 Bluebell	4/31/13	1345	5	X									21								X	X

Special Instructions:

Method of Shipment:

FEDEX

Laboratory Comments:

Temperature Upon Receipt:
VOCs Free of Headspace?

Y N

Relinquished by: <u>[Signature]</u>	Date: <u>4/9/13</u>	Time: <u>0900</u>	Received by: <u>[Signature]</u>	Date: <u>4-10-13</u>	Time: <u>8:15</u>
Relinquished by: <u>[Signature]</u>	Date: <u>4/9/13</u>	Time: <u>0900</u>	Received by: <u>[Signature]</u>	Date: <u>4-10-13</u>	Time: <u>8:15</u>

Login Sample Receipt Checklist

Client: Environmental Enterprise Group

Job Number: 490-23941-1

Login Number: 23941

List Source: TestAmerica Nashville

List Number: 1

Creator: Abernathy, Eric

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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	
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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ATTACHMENT A



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of 1			
3. Generator's Mailing Address: MCAS BEAUFORT LAUREL BAY HOUSING BEAUFORT, SC 29904 4. Generator's Phone 843-879-0411				Generator's Site Address (If different than mailing):		A. Manifest Number WMNA 01519145 B. State Generator's ID			
5. Transporter 1 Company Name				6. US EPA ID Number		C. State Transporter's ID D. Transporter's Phone			
7. Transporter 2 Company Name				8. US EPA ID Number		E. State Transporter's ID F. Transporter's Phone			
9. Designated Facility Name and Site Address HICKORY HILL LANDFILL 2621 LOW COUNTRY DRIVE RIDGELAND, SC 29936				10. US EPA ID Number		G. State Facility ID H. State Facility Phone 843-987-4643			
GENERATOR	11. Description of Waste Materials			12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments	
	a. HEATING OIL TANK FILLED WITH SAND WM Profile # 102655SC			No.	Type				
	b. WM Profile #								
	c. WM Profile #								
TRANSPORTER	d. WM Profile #								
	J. Additional Descriptions for Materials Listed Above			K. Disposal Location					
FACILITY				Cell	Level				
				Grid					
	15. Special Handling Instructions and Additional Information USTs from: 2) 925 Albacore 4) 1422 Albacore 3) 755 Althel 5) 1433 Down 6) 1418 Albacore								
	Purchase Order #			EMERGENCY CONTACT / PHONE NO.:					
	16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.								
TRANSPORTER	Printed Name			Signature "On behalf of"			Month	Day	Year
	10. G. D. D. D.						4	16	13
	17. Transporter 1 Acknowledgement of Receipt of Materials			Printed Name			Signature		
	Prashanth						Month	Day	Year
							4	16	13
FACILITY	18. Transporter 2 Acknowledgement of Receipt of Materials			Printed Name			Signature		
	James Baldwin						Month	Day	Year
							4	16	13
	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.								
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.								
FACILITY	Printed Name			Signature			Month	Day	Year
	Tom C. C. C.			Tom C. C. C.			4	16	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY

Appendix C

Regulatory Correspondence



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

July 1, 2015

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

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

Dear Mr. Drawdy,

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

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

Please note that the Department's decision is based on information provided by the Marine Corps Air Station (MCAS) to date. Any information found to be contradictory to this decision may require additional action. Furthermore, the Department retains the right to request further investigation if deemed necessary.

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

Sincerely,

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

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



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

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

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

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

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

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

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

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