# SUMMARY REPORT
# 114 ASH STREET (FORMERLY 309 ASH STREET)
# LAUREL BAY MILITARY HOUSING AREA
# MARINE CORPS AIR STATION BEAUFORT
# BEAUFORT, SC

Revision: 0

Prepared for:

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

and


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

JUNE 2021

SUMMARY REPORT
114 ASH STREET (FORMERLY 309 ASH STREET)
LAUREL BAY MILITARY HOUSING AREA
MARINE CORPS AIR STATION BEAUFORT
BEAUFORT, SC

Revision: 0
Prepared for:

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

and

Naval Facilities Engineering Command Atlantic

9324 Virginia Avenue
Norfolk, Virginia 23511-3095

Prepared by:

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

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

# Table of Contents

1.0 INTRODUCTION ..... 1
1.1 Background Information ..... 1
1.2 UST Removal and Assessment Process ..... 2
2.0 SAMPLING ACTIVITIES AND RESULTS ..... 3
2.1 UST Removal and Soil Sampling ..... 3
2.2 Soil Analytical Results ..... 4
3.0 PROPERTY STATUS ..... 4
4.0 REFERENCES ..... 4

## Table

Table 1 Laboratory Analytical Results - Soil

## Appendices

Appendix A Multi-Media Selection Process for LBMH
Appendix B UST Assesment Report
Appendix C Regulatory Correspondence

## 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 114 Ash Street (Formerly 309 Ash Street). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

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

## 1.1 Background Information

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

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

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

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

## 1.2 UST Removal and Assessment Process

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

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

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

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

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

## 2.0 SAMPLING ACTIVITIES AND RESULTS

The following section presents the sampling activities and associated results for 114 Ash Street (Formerly 309 Ash Street). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 309 Ash Street* (MCAS Beaufort, 2015). The UST Assessment Report is provided in Appendix B.

### 2.1 UST Removal and Soil Sampling

On February 5, 2015, a single 280 gallon heating oil UST was removed from the front landscaped area adjacent to the garage at 114 Ash Street (Formerly 309 Ash Street). The former UST location is indicated on Figures 1 and 2 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 5'9" 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 114 Ash Street (Formerly 309 Ash Street) were less than the SCDHEC RBSLs, which indicated the subsurface was not impacted by COPCs associated with the former UST at concentrations that presented a potential risk to human health and the environment.

# 3.0 PROPERTY STATUS

Based on the analytical results for soil, SCDHEC made the determination that NFA was required for 114 Ash Street (Formerly 309 Ash Street). This NFA determination was obtained in a letter dated August 3, 2016. SCDHEC's NFA letter is provided in Appendix C.

# 4.0 REFERENCES

Marine Corps Air Station Beaufort, 2015. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 309 Ash Street, Laurel Bay Military Housing Area*, July 2015.

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**
**114 Ash Street (Formerly 309 Ash Street)**
**Laurel Bay Military Housing Area**
**Marine Corps Air Station Beaufort**
**Beaufort, South Carolina**

| Constituent | SCDHEC RBSLs [1] | Results Sample Collected 02/05/15 |
|---|---|---|
| **Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)** | | |
| Benzene | 0.003 | ND |
| Ethylbenzene | 1.15 | ND |
| Naphthalene | 0.036 | ND |
| Toluene | 0.627 | ND |
| Xylenes, Total | 13.01 | ND |
| **Semivolatile Organic Compounds Analyzed by EPA Method 8270D (mg/kg)** | | |
| Benzo(a)anthracene | 0.66 | ND |
| Benzo(b)fluoranthene | 0.66 | ND |
| Benzo(k)fluoranthene | 0.66 | ND |
| Chrysene | 0.66 | ND |
| Dibenz(a,h)anthracene | 0.66 | ND |

**Notes:**

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

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

mg/kg - milligram per kilogram

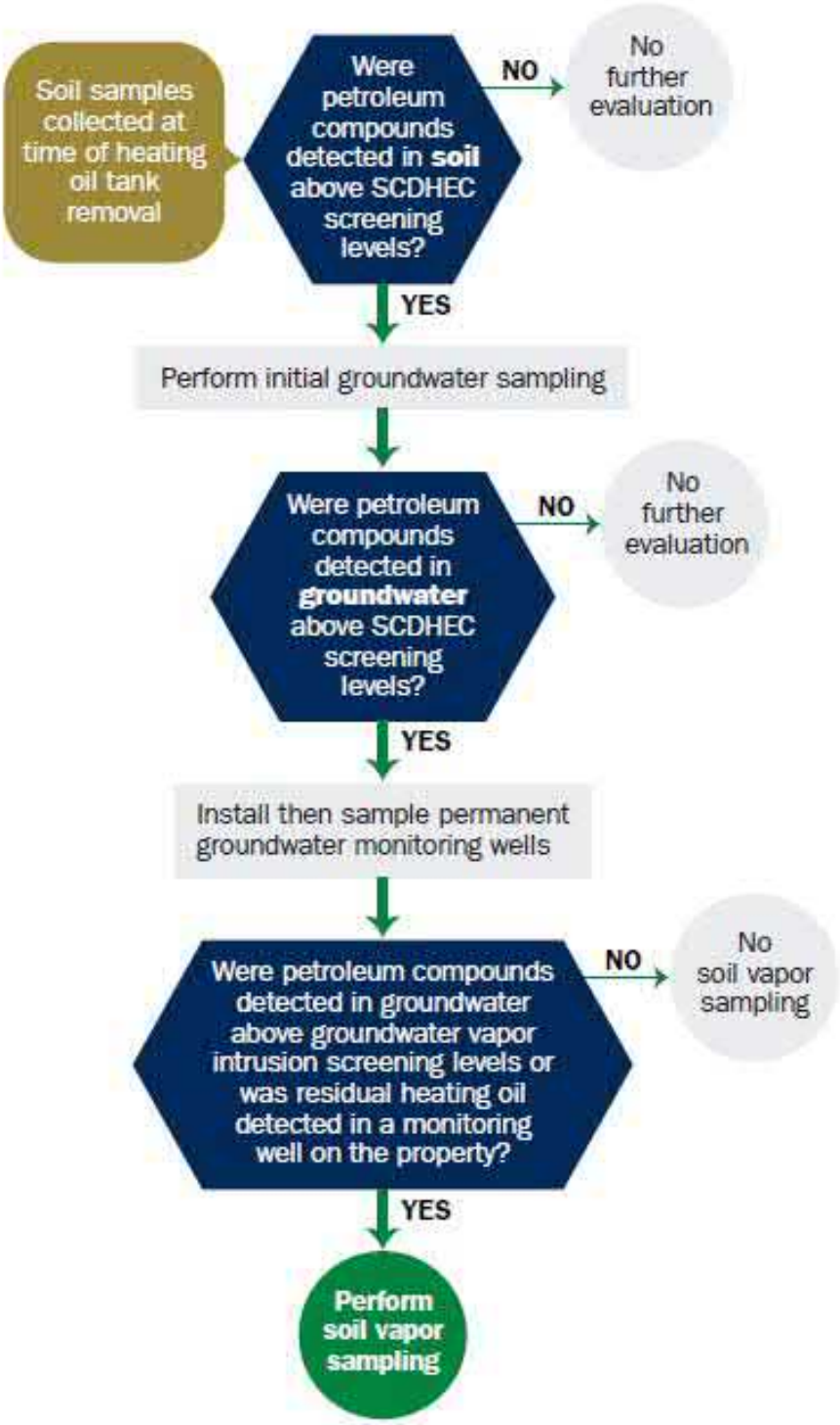
ND - not detected at the reporting limit (or method detection limit if shown on the laboratory report). The laboratory report is provided in Appendix B.

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

**Appendix A**
**Multi-Media Selection Process for LBMH**

CDM - AECOM
Multimedia Joint Venture




## Appendix A - Multi-Media Selection Process for LBMH

**Appendix B**
**UST Assessment Report**

CDM - AECOM
Multimedia Joint Venture

Attachment 1

South Carolina Department of Health and Environmental Control (SCDHEC)

# Underground Storage Tank (UST) Assessment Report

| Date Received<br><br>State Use Only |
|---|

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

## I. OWNERSHIP OF UST (S)

MCAS Beaufort, Commanding Officer Attn: NREAO (Craig Ehde)
Owner Name (Corporation, Individual, Public Agency, Other)

P.O. Box 55001
Mailing Address

| Beaufort, | South Carolina | 29904-5001 |
|---|---|---|
| City | State | Zip Code |

| 843 | 228-7317 | Craig Ehde |
|---|---|---|
| Area Code | Telephone Number | Contact Person |

## II. SITE IDENTIFICATION AND LOCATION

Permit I.D. #
Laurel Bay Military Housing Area, Marine Corps Air Station, Beaufort, SC
Facility Name or Company Site Identifier

309 Ash Street, Laurel Bay Military Housing Area
Street Address or State Road (as applicable)

| Beaufort, | Beaufort |
|---|---|
| City | County |

Attachment 2

## III. INSURANCE INFORMATION

### Insurance Statement

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

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

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

My policy provider is:_____
The policy deductible is: _____
The policy limit is: _____

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

## IV. REQUEST FOR SUPERB FUNDING

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

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

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

_____
Name (Type or print.)

_____
Signature

### To be completed by Notary Public:

Sworn before me this _____ day of_____, 20____

_____
(Name)

Notary Public for the state of_____.
*Please affix State seal if you are commissioned outside South Carolina*

## VI. UST INFORMATION

| | | | | | |
|---|---|---|---|---|---|
| A. | Product...(ex. Gas, Kerosene)..... | 309Ash | | | | |
| B. | Capacity..(ex. 1k, 2k)..... | Heating oil | | | | |
| C. | Age..... | 280 gal | | | | |
| D. | Construction Material..(ex. Steel, FRP)..... | Late 1950s | | | | |
| E. | Month/Year of Last Use..... | Steel | | | | |
| F. | Depth (ft.) To Base of Tank..... | Mid 1980s | | | | |
| G. | Spill Prevention Equipment Y/N..... | 5'9" | | | | |
| H. | Overfill Prevention Equipment Y/N..... | No | | | | |
| I. | Method of Closure Removed/Filled..... | No | | | | |
| J. | Date Tanks Removed/Filled..... | Removed | | | | |
| K. | Visible Corrosion or Pitting Y/N..... | 2/5/2015 | | | | |
| L. | Visible Holes Y/N..... | Yes | | | | |
| | | Yes | | | | |

M. Method of disposal for any USTs removed from the ground (attach disposal manifests)
UST 309Ash was removed from the ground, cleaned and recycled. See Attachment "A."

N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests)
Contaminated water was pumped from UST 309Ash and disposed by MCAS.

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

## VII. PIPING INFORMATION

| | | | | |
|---|---|---|---|---|
| 309Ash | | | | |
| Steel & Copper | | | | |
| N/A | | | | |
| N/A | | | | |
| Suction | | | | |
| No | | | | |
| Yes | | | | |
| No | | | | |
| Late 1950s | | | | |

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

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

C. Number of Dispensers.....

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

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

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

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

H. Age.....

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

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

## VIII. BRIEF SITE DESCRIPTION AND HISTORY

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

# IX. SITE CONDITIONS

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

## X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 84009

B.

| Sample # | Location | Sample Type (Soil/Water) | Soil Type (Sand/Clay) | Depth* | Date/Time of Collection | Collected by | OVA # |
|---|---|---|---|---|---|---|---|
| 309Ash | Excav at fill end | Soil | Sandy | 5'9" | 2/5/15 1415 hrs | P. Shaw | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |

* = Depth Below the Surrounding Land Surface

## XI. SAMPLING METHODOLOGY

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

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

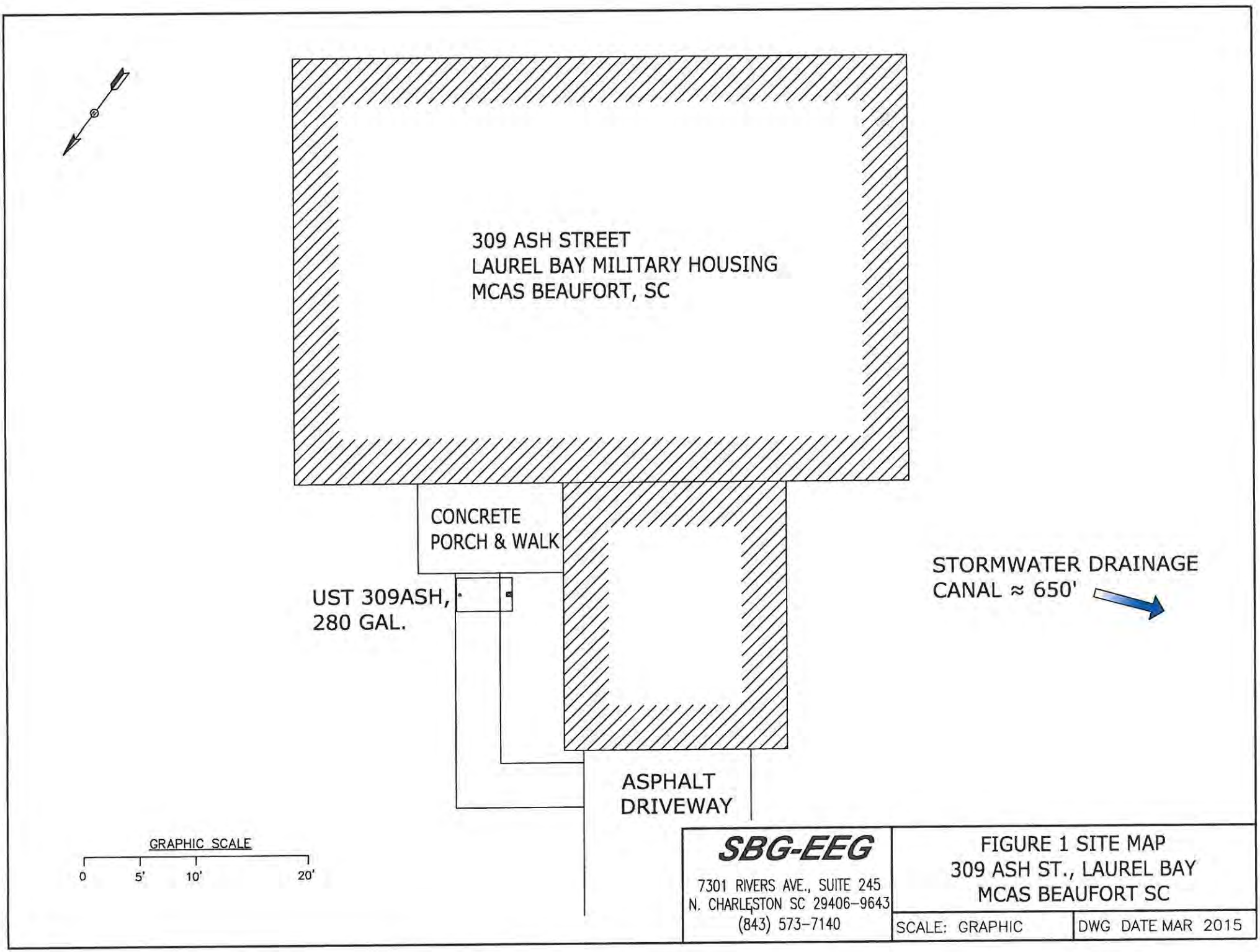
# XII. RECEPTORS

| | Yes | No |
|---|---|---|
| A. Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?<br>*stormwater drainage canal<br>If yes, indicate type of receptor, distance, and direction on site map. | *X | |
| B. Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?<br>If yes, indicate type of well, distance, and direction on site map. | | X |
| C. Are there any underground structures (e.g., basements) Located within 100 feet of the UST system?<br>If yes, indicate type of structure, distance, and direction on site map. | | X |
| D. Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the contamination? *Sewer, water, electricity, cable & fiber optic<br>If yes, indicate the type of utility, distance, and direction on the site map. | *X | |
| E. Has contaminated soil been identified at a depth less than 3 feet below land surface in an area that is not capped by asphalt or concrete?<br>If yes, indicate the area of contaminated soil on the site map. | | 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.**

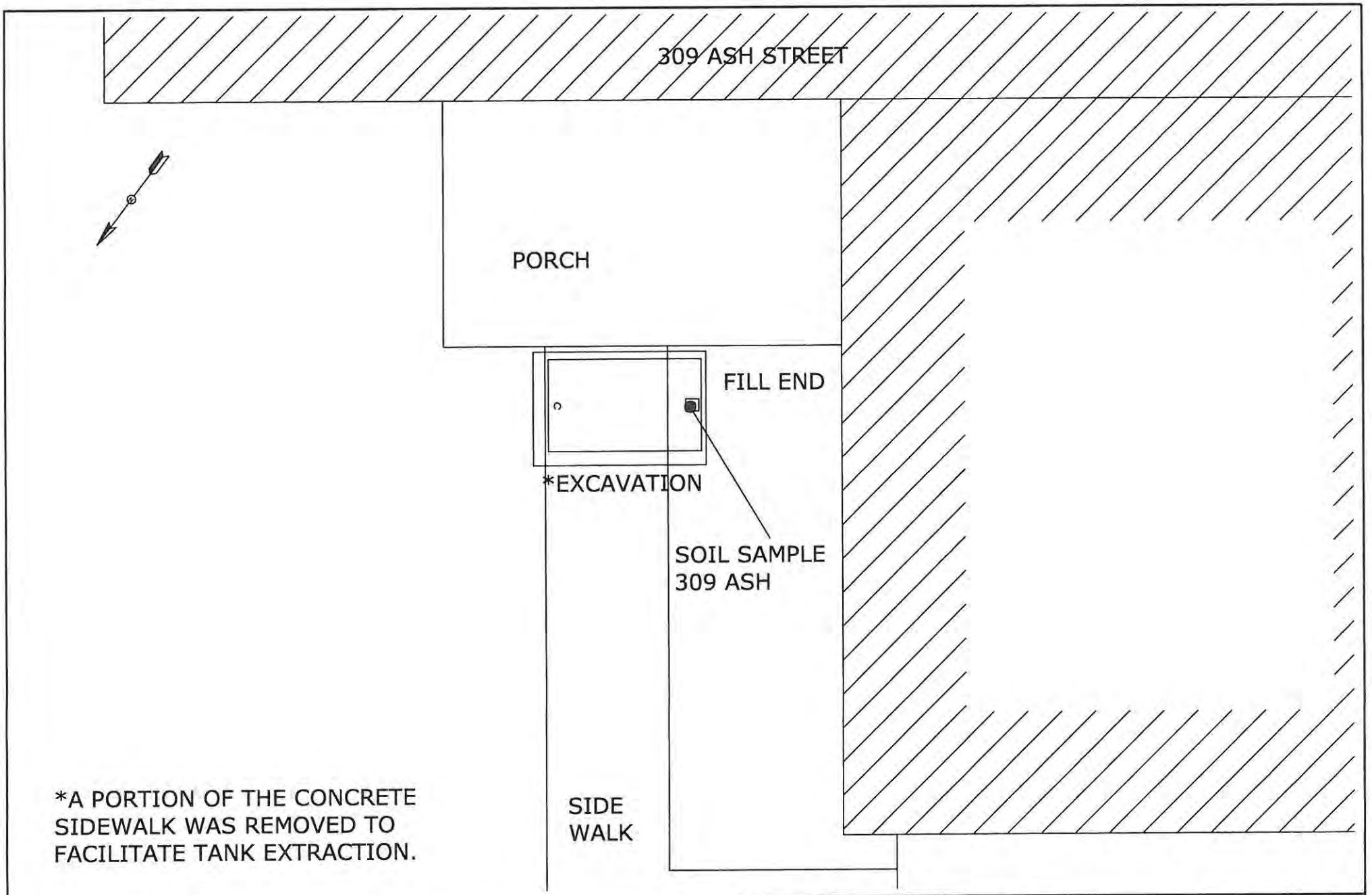
(Attach Site Map Here)




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

FIGURE 1 SITE MAP
309 ASH ST., LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC | DWG DATE MAR 2015




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

FIGURE 2 UST SAMPLE LOCATION
309 ASH ST., LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC | DWG DATE MAR 2015

Picture 1: Location of UST 309Ash.

Picture 2: The tank being lifted from the excavation.


Picture 3:Tank excavation. 114 Ash St. was formerly known as 309 Ash Street.


Picture 4: Site after completion of tank removal.

## 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 | 309Ash | | | | | | |
|---|---|---|---|---|---|---|---|
| Benzene | ND | | | | | | |
| Toluene | ND | | | | | | |
| Ethylbenzene | ND | | | | | | |
| Xylenes | ND | | | | | | |
| Naphthalene | ND | | | | | | |
| Benzo (a) anthracene | ND | | | | | | |
| Benzo (b) fluoranthene | ND | | | | | | |
| Benzo (k) fluoranthene | ND | | | | | | |
| Chrysene | ND | | | | | | |
| Dibenz (a, h) anthracene | ND | | | | | | |
| TPH (EPA 3550) | | | | | | | |

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

## SUMMARY OF ANALYSIS RESULTS (cont'd)

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

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

## XV. ANALYTICAL RESULTS

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

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

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

TestAmerica Job ID: 490-72080-1
Client Project/Site: Laurel Bay Housing Project

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

Attn: Tom McElwee

*Authorized for release by:*
*2/13/2015 11:24:10 AM*

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.*

# Table of Contents

Cover Page . . . . . 1
Table of Contents . . . . . 2
Sample Summary . . . . . 3
Case Narrative . . . . . 4
Definitions . . . . . 5
Client Sample Results . . . . . 6
QC Sample Results . . . . . 8
QC Association . . . . . 12
Chronicle . . . . . 13
Method Summary . . . . . 14
Certification Summary . . . . . 15
Chain of Custody . . . . . 16
Receipt Checklists . . . . . 18

# Sample Summary

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

TestAmerica Job ID: 490-72080-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 490-72080-1 | 477 Dogwood - 2 | Soil | 02/03/15 15:00 | 02/07/15 08:30 |
| 490-72080-2 | 309 Ash | Soil | 02/05/15 14:15 | 02/07/15 08:30 |

# Case Narrative

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

TestAmerica Job ID: 490-72080-1

## Job ID: 490-72080-1

Laboratory: TestAmerica Nashville

Narrative

**Job Narrative**
**490-72080-1**

**Comments**
No additional comments.

**Receipt**
The samples were received on 2/7/2015 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.1° C.

**GC/MS VOA**
Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 226828 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**GC/MS Semi VOA**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**Organic Prep**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**VOA Prep**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| F1 | MS and/or MSD Recovery exceeds the control limits |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| 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) |
| 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: Small Business Group Inc.
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-72080-1

## Client Sample ID: 477 Dogwood - 2

Date Collected: 02/03/15 15:00
Date Received: 02/07/15 08:30

## Lab Sample ID: 490-72080-1

Matrix: Soil
Percent Solids: 76.8

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.00256 | 0.000858 | mg/Kg | | 02/03/15 15:00 | 02/11/15 19:01 | 1 |
| Ethylbenzene | ND | | 0.00256 | 0.000858 | mg/Kg | | 02/03/15 15:00 | 02/11/15 19:01 | 1 |
| Naphthalene | ND | | 0.00640 | 0.00218 | mg/Kg | | 02/03/15 15:00 | 02/11/15 19:01 | 1 |
| Toluene | ND | | 0.00256 | 0.000948 | mg/Kg | | 02/03/15 15:00 | 02/11/15 19:01 | 1 |
| Xylenes, Total | ND | | 0.00384 | 0.000858 | mg/Kg | | 02/03/15 15:00 | 02/11/15 19:01 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *115* | | *70 - 130* | *02/03/15 15:00* | *02/11/15 19:01* | *1* |
| *4-Bromofluorobenzene (Surr)* | *102* | | *70 - 130* | *02/03/15 15:00* | *02/11/15 19:01* | *1* |
| *Dibromofluoromethane (Surr)* | *112* | | *70 - 130* | *02/03/15 15:00* | *02/11/15 19:01* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *70 - 130* | *02/03/15 15:00* | *02/11/15 19:01* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 0.0869 | 0.0130 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:35 | 1 |
| Acenaphthylene | ND | | 0.0869 | 0.0117 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:35 | 1 |
| Anthracene | ND | | 0.0869 | 0.0117 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:35 | 1 |
| Benzo[a]anthracene | ND | | 0.0869 | 0.0195 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:35 | 1 |
| Benzo[a]pyrene | ND | | 0.0869 | 0.0156 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:35 | 1 |
| Benzo[b]fluoranthene | ND | | 0.0869 | 0.0156 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:35 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.0869 | 0.0117 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:35 | 1 |
| Benzo[k]fluoranthene | ND | | 0.0869 | 0.0182 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:35 | 1 |
| 1-Methylnaphthalene | ND | | 0.0869 | 0.0182 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:35 | 1 |
| Pyrene | ND | | 0.0869 | 0.0156 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:35 | 1 |
| Phenanthrene | ND | | 0.0869 | 0.0117 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:35 | 1 |
| Chrysene | ND | | 0.0869 | 0.0117 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:35 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.0869 | 0.00908 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:35 | 1 |
| Fluoranthene | ND | | 0.0869 | 0.0117 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:35 | 1 |
| Fluorene | ND | | 0.0869 | 0.0156 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:35 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.0869 | 0.0130 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:35 | 1 |
| Naphthalene | ND | | 0.0869 | 0.0117 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:35 | 1 |
| 2-Methylnaphthalene | ND | | 0.0869 | 0.0207 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:35 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl (Surr)* | *58* | | *29 - 120* | *02/09/15 10:52* | *02/10/15 19:35* | *1* |
| *Terphenyl-d14 (Surr)* | *64* | | *13 - 120* | *02/09/15 10:52* | *02/10/15 19:35* | *1* |
| *Nitrobenzene-d5 (Surr)* | *51* | | *27 - 120* | *02/09/15 10:52* | *02/10/15 19:35* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Solids | 77 | | 0.10 | 0.10 | % | | | 02/07/15 16:40 | 1 |

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

TestAmerica Job ID: 490-72080-1

## Client Sample ID: 309 Ash

Date Collected: 02/05/15 14:15
Date Received: 02/07/15 08:30

## Lab Sample ID: 490-72080-2

Matrix: Soil
Percent Solids: 85.4

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.00200 | 0.000671 | mg/Kg | | 02/05/15 14:15 | 02/11/15 19:29 | 1 |
| Ethylbenzene | ND | | 0.00200 | 0.000671 | mg/Kg | | 02/05/15 14:15 | 02/11/15 19:29 | 1 |
| Naphthalene | ND | | 0.00501 | 0.00170 | mg/Kg | | 02/05/15 14:15 | 02/11/15 19:29 | 1 |
| Toluene | ND | | 0.00200 | 0.000741 | mg/Kg | | 02/05/15 14:15 | 02/11/15 19:29 | 1 |
| Xylenes, Total | ND | | 0.00300 | 0.000671 | mg/Kg | | 02/05/15 14:15 | 02/11/15 19:29 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *106* | | *70 - 130* | *02/05/15 14:15* | *02/11/15 19:29* | *1* |
| *4-Bromofluorobenzene (Surr)* | *105* | | *70 - 130* | *02/05/15 14:15* | *02/11/15 19:29* | *1* |
| *Dibromofluoromethane (Surr)* | *103* | | *70 - 130* | *02/05/15 14:15* | *02/11/15 19:29* | *1* |
| *Toluene-d8 (Surr)* | *94* | | *70 - 130* | *02/05/15 14:15* | *02/11/15 19:29* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 0.0774 | 0.0116 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:57 | 1 |
| Acenaphthylene | ND | | 0.0774 | 0.0104 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:57 | 1 |
| Anthracene | ND | | 0.0774 | 0.0104 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:57 | 1 |
| Benzo[a]anthracene | ND | | 0.0774 | 0.0173 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:57 | 1 |
| Benzo[a]pyrene | ND | | 0.0774 | 0.0139 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:57 | 1 |
| Benzo[b]fluoranthene | ND | | 0.0774 | 0.0139 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:57 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.0774 | 0.0104 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:57 | 1 |
| Benzo[k]fluoranthene | ND | | 0.0774 | 0.0162 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:57 | 1 |
| 1-Methylnaphthalene | ND | | 0.0774 | 0.0162 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:57 | 1 |
| Pyrene | ND | | 0.0774 | 0.0139 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:57 | 1 |
| Phenanthrene | ND | | 0.0774 | 0.0104 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:57 | 1 |
| Chrysene | ND | | 0.0774 | 0.0104 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:57 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.0774 | 0.00809 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:57 | 1 |
| Fluoranthene | ND | | 0.0774 | 0.0104 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:57 | 1 |
| Fluorene | ND | | 0.0774 | 0.0139 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:57 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.0774 | 0.0116 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:57 | 1 |
| Naphthalene | ND | | 0.0774 | 0.0104 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:57 | 1 |
| 2-Methylnaphthalene | ND | | 0.0774 | 0.0185 | mg/Kg | | 02/09/15 10:52 | 02/10/15 19:57 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl (Surr)* | *54* | | *29 - 120* | *02/09/15 10:52* | *02/10/15 19:57* | *1* |
| *Terphenyl-d14 (Surr)* | *61* | | *13 - 120* | *02/09/15 10:52* | *02/10/15 19:57* | *1* |
| *Nitrobenzene-d5 (Surr)* | *48* | | *27 - 120* | *02/09/15 10:52* | *02/10/15 19:57* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Solids | 85 | | 0.10 | 0.10 | % | | | 02/07/15 16:40 | 1 |

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

**Lab Sample ID: 490-72069-D-14-A MS**
**Matrix: Solid**
**Analysis Batch: 226828**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 226230**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.0571 | 0.05973 | | mg/Kg | ☼ | 105 | 31 - 143 |
| Ethylbenzene | ND | | 0.0571 | 0.05971 | | mg/Kg | ☼ | 105 | 23 - 161 |
| Naphthalene | ND | | 0.0571 | 0.06535 | | mg/Kg | ☼ | 114 | 10 - 176 |
| Toluene | ND | | 0.0571 | 0.05735 | | mg/Kg | ☼ | 100 | 30 - 155 |
| Xylenes, Total | ND | | 114 | 0.1223 | F1 | mg/Kg | ☼ | 0.1 | 25 - 162 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *70 - 130* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *70 - 130* |
| *Dibromofluoromethane (Surr)* | *103* | | *70 - 130* |
| *Toluene-d8 (Surr)* | *96* | | *70 - 130* |

**Lab Sample ID: 490-72069-D-14-B MSD**
**Matrix: Solid**
**Analysis Batch: 226828**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 226230**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.0578 | 0.06024 | | mg/Kg | ☼ | 104 | 31 - 143 | 1 | 50 |
| Ethylbenzene | ND | | 0.0578 | 0.06132 | | mg/Kg | ☼ | 106 | 23 - 161 | 3 | 50 |
| Naphthalene | ND | | 0.0578 | 0.06261 | | mg/Kg | ☼ | 108 | 10 - 176 | 4 | 50 |
| Toluene | ND | | 0.0578 | 0.05925 | | mg/Kg | ☼ | 103 | 30 - 155 | 3 | 50 |
| Xylenes, Total | ND | | 116 | 0.1247 | F1 | mg/Kg | ☼ | 0.1 | 25 - 162 | 2 | 50 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *97* | | *70 - 130* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *70 - 130* |
| *Dibromofluoromethane (Surr)* | *103* | | *70 - 130* |
| *Toluene-d8 (Surr)* | *94* | | *70 - 130* |

**Lab Sample ID: MB 490-226828/8**
**Matrix: Solid**
**Analysis Batch: 226828**

**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 | | | 02/11/15 12:48 | 1 |
| Ethylbenzene | ND | | 0.00200 | 0.000670 | mg/Kg | | | 02/11/15 12:48 | 1 |
| Naphthalene | ND | | 0.00500 | 0.00170 | mg/Kg | | | 02/11/15 12:48 | 1 |
| Toluene | ND | | 0.00200 | 0.000740 | mg/Kg | | | 02/11/15 12:48 | 1 |
| Xylenes, Total | ND | | 0.00300 | 0.000670 | mg/Kg | | | 02/11/15 12:48 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *118* | | *70 - 130* | | *02/11/15 12:48* | *1* |
| *4-Bromofluorobenzene (Surr)* | *102* | | *70 - 130* | | *02/11/15 12:48* | *1* |
| *Dibromofluoromethane (Surr)* | *110* | | *70 - 130* | | *02/11/15 12:48* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *70 - 130* | | *02/11/15 12:48* | *1* |

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

**Lab Sample ID: LCS 490-226828/4**
**Matrix: Solid**
**Analysis Batch: 226828**

**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 | 0.05219 | | mg/Kg | | 104 | 75 - 127 |
| Ethylbenzene | 0.0500 | 0.04995 | | mg/Kg | | 100 | 80 - 134 |
| Naphthalene | 0.0500 | 0.05366 | | mg/Kg | | 107 | 69 - 150 |
| Toluene | 0.0500 | 0.04864 | | mg/Kg | | 97 | 80 - 132 |
| Xylenes, Total | 0.100 | 0.1037 | | mg/Kg | | 104 | 80 - 137 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *114* | | *70 - 130* |
| *4-Bromofluorobenzene (Surr)* | *99* | | *70 - 130* |
| *Dibromofluoromethane (Surr)* | *109* | | *70 - 130* |
| *Toluene-d8 (Surr)* | *94* | | *70 - 130* |

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

**Lab Sample ID: MB 490-226322/1-A**
**Matrix: Solid**
**Analysis Batch: 226554**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 226322**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 0.0670 | 0.0100 | mg/Kg | | 02/09/15 10:52 | 02/10/15 12:05 | 1 |
| Acenaphthylene | ND | | 0.0670 | 0.00900 | mg/Kg | | 02/09/15 10:52 | 02/10/15 12:05 | 1 |
| Anthracene | ND | | 0.0670 | 0.00900 | mg/Kg | | 02/09/15 10:52 | 02/10/15 12:05 | 1 |
| Benzo[a]anthracene | ND | | 0.0670 | 0.0150 | mg/Kg | | 02/09/15 10:52 | 02/10/15 12:05 | 1 |
| Benzo[a]pyrene | ND | | 0.0670 | 0.0120 | mg/Kg | | 02/09/15 10:52 | 02/10/15 12:05 | 1 |
| Benzo[b]fluoranthene | ND | | 0.0670 | 0.0120 | mg/Kg | | 02/09/15 10:52 | 02/10/15 12:05 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.0670 | 0.00900 | mg/Kg | | 02/09/15 10:52 | 02/10/15 12:05 | 1 |
| Benzo[k]fluoranthene | ND | | 0.0670 | 0.0140 | mg/Kg | | 02/09/15 10:52 | 02/10/15 12:05 | 1 |
| 1-Methylnaphthalene | ND | | 0.0670 | 0.0140 | mg/Kg | | 02/09/15 10:52 | 02/10/15 12:05 | 1 |
| Pyrene | ND | | 0.0670 | 0.0120 | mg/Kg | | 02/09/15 10:52 | 02/10/15 12:05 | 1 |
| Phenanthrene | ND | | 0.0670 | 0.00900 | mg/Kg | | 02/09/15 10:52 | 02/10/15 12:05 | 1 |
| Chrysene | ND | | 0.0670 | 0.00900 | mg/Kg | | 02/09/15 10:52 | 02/10/15 12:05 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.0670 | 0.00700 | mg/Kg | | 02/09/15 10:52 | 02/10/15 12:05 | 1 |
| Fluoranthene | ND | | 0.0670 | 0.00900 | mg/Kg | | 02/09/15 10:52 | 02/10/15 12:05 | 1 |
| Fluorene | ND | | 0.0670 | 0.0120 | mg/Kg | | 02/09/15 10:52 | 02/10/15 12:05 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.0670 | 0.0100 | mg/Kg | | 02/09/15 10:52 | 02/10/15 12:05 | 1 |
| Naphthalene | ND | | 0.0670 | 0.00900 | mg/Kg | | 02/09/15 10:52 | 02/10/15 12:05 | 1 |
| 2-Methylnaphthalene | ND | | 0.0670 | 0.0160 | mg/Kg | | 02/09/15 10:52 | 02/10/15 12:05 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl (Surr)* | *83* | | *29 - 120* | *02/09/15 10:52* | *02/10/15 12:05* | *1* |
| *Terphenyl-d14 (Surr)* | *81* | | *13 - 120* | *02/09/15 10:52* | *02/10/15 12:05* | *1* |
| *Nitrobenzene-d5 (Surr)* | *78* | | *27 - 120* | *02/09/15 10:52* | *02/10/15 12:05* | *1* |

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

**Lab Sample ID: LCS 490-226322/2-A**
**Matrix: Solid**
**Analysis Batch: 226554**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 226322**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acenaphthylene | 1.67 | 1.381 | | mg/Kg | | 83 | 38 - 120 |
| Anthracene | 1.67 | 1.337 | | mg/Kg | | 80 | 46 - 124 |
| Benzo[a]anthracene | 1.67 | 1.451 | | mg/Kg | | 87 | 45 - 120 |
| Benzo[a]pyrene | 1.67 | 1.393 | | mg/Kg | | 84 | 45 - 120 |
| Benzo[b]fluoranthene | 1.67 | 1.349 | | mg/Kg | | 81 | 42 - 120 |
| Benzo[g,h,i]perylene | 1.67 | 1.675 | | mg/Kg | | 101 | 38 - 120 |
| Benzo[k]fluoranthene | 1.67 | 1.425 | | mg/Kg | | 85 | 42 - 120 |
| 1-Methylnaphthalene | 1.67 | 1.350 | | mg/Kg | | 81 | 32 - 120 |
| Pyrene | 1.67 | 1.553 | | mg/Kg | | 93 | 43 - 120 |
| Phenanthrene | 1.67 | 1.282 | | mg/Kg | | 77 | 45 - 120 |
| Chrysene | 1.67 | 1.395 | | mg/Kg | | 84 | 43 - 120 |
| Dibenz(a,h)anthracene | 1.67 | 1.629 | | mg/Kg | | 98 | 32 - 128 |
| Fluoranthene | 1.67 | 1.361 | | mg/Kg | | 82 | 46 - 120 |
| Fluorene | 1.67 | 1.386 | | mg/Kg | | 83 | 42 - 120 |
| Indeno[1,2,3-cd]pyrene | 1.67 | 1.583 | | mg/Kg | | 95 | 41 - 121 |
| Naphthalene | 1.67 | 1.321 | | mg/Kg | | 79 | 32 - 120 |
| 2-Methylnaphthalene | 1.67 | 1.388 | | mg/Kg | | 83 | 28 - 120 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *2-Fluorobiphenyl (Surr)* | *77* | | *29 - 120* |
| *Terphenyl-d14 (Surr)* | *90* | | *13 - 120* |
| *Nitrobenzene-d5 (Surr)* | *76* | | *27 - 120* |

**Lab Sample ID: LCSD 490-226322/3-A**
**Matrix: Solid**
**Analysis Batch: 226554**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 226322**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthylene | 1.67 | 1.387 | | mg/Kg | | 83 | 38 - 120 | 0 | 50 |
| Anthracene | 1.67 | 1.298 | | mg/Kg | | 78 | 46 - 124 | 3 | 49 |
| Benzo[a]anthracene | 1.67 | 1.441 | | mg/Kg | | 86 | 45 - 120 | 1 | 50 |
| Benzo[a]pyrene | 1.67 | 1.388 | | mg/Kg | | 83 | 45 - 120 | 0 | 50 |
| Benzo[b]fluoranthene | 1.67 | 1.227 | | mg/Kg | | 74 | 42 - 120 | 9 | 50 |
| Benzo[g,h,i]perylene | 1.67 | 1.458 | | mg/Kg | | 88 | 38 - 120 | 14 | 50 |
| Benzo[k]fluoranthene | 1.67 | 1.204 | | mg/Kg | | 72 | 42 - 120 | 17 | 45 |
| 1-Methylnaphthalene | 1.67 | 1.373 | | mg/Kg | | 82 | 32 - 120 | 2 | 50 |
| Pyrene | 1.67 | 1.290 | | mg/Kg | | 77 | 43 - 120 | 18 | 50 |
| Phenanthrene | 1.67 | 1.283 | | mg/Kg | | 77 | 45 - 120 | 0 | 50 |
| Chrysene | 1.67 | 1.383 | | mg/Kg | | 83 | 43 - 120 | 1 | 49 |
| Dibenz(a,h)anthracene | 1.67 | 1.426 | | mg/Kg | | 86 | 32 - 128 | 13 | 50 |
| Fluoranthene | 1.67 | 1.386 | | mg/Kg | | 83 | 46 - 120 | 2 | 50 |
| Fluorene | 1.67 | 1.446 | | mg/Kg | | 87 | 42 - 120 | 4 | 50 |
| Indeno[1,2,3-cd]pyrene | 1.67 | 1.396 | | mg/Kg | | 84 | 41 - 121 | 13 | 50 |
| Naphthalene | 1.67 | 1.323 | | mg/Kg | | 79 | 32 - 120 | 0 | 50 |
| 2-Methylnaphthalene | 1.67 | 1.357 | | mg/Kg | | 81 | 28 - 120 | 2 | 50 |

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

Lab Sample ID: LCSD 490-226322/3-A
Matrix: Solid
Analysis Batch: 226554

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 226322

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| 2-Fluorobiphenyl (Surr) | 77 | | 29 - 120 |
| Terphenyl-d14 (Surr) | 72 | | 13 - 120 |
| Nitrobenzene-d5 (Surr) | 68 | | 27 - 120 |

## Method: Moisture - Percent Moisture

Lab Sample ID: 490-72075-D-2 DU
Matrix: Solid
Analysis Batch: 226186

Client Sample ID: Duplicate
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| Percent Solids | 84 | | 84 | | % | | 0 | 20 |

## GC/MS VOA

### Prep Batch: 226228

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 490-72080-1 | 477 Dogwood - 2 | Total/NA | Soil | 5035 | |
| 490-72080-2 | 309 Ash | Total/NA | Soil | 5035 | |

### Prep Batch: 226230

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 490-72069-D-14-A MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 490-72069-D-14-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

### Analysis Batch: 226828

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 490-72069-D-14-A MS | Matrix Spike | Total/NA | Solid | 8260B | 226230 |
| 490-72069-D-14-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 8260B | 226230 |
| 490-72080-1 | 477 Dogwood - 2 | Total/NA | Soil | 8260B | 226228 |
| 490-72080-2 | 309 Ash | Total/NA | Soil | 8260B | 226228 |
| LCS 490-226828/4 | Lab Control Sample | Total/NA | Solid | 8260B | |
| MB 490-226828/8 | Method Blank | Total/NA | Solid | 8260B | |

## GC/MS Semi VOA

### Prep Batch: 226322

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 490-72080-1 | 477 Dogwood - 2 | Total/NA | Soil | 3550C | |
| 490-72080-2 | 309 Ash | Total/NA | Soil | 3550C | |
| LCS 490-226322/2-A | Lab Control Sample | Total/NA | Solid | 3550C | |
| LCSD 490-226322/3-A | Lab Control Sample Dup | Total/NA | Solid | 3550C | |
| MB 490-226322/1-A | Method Blank | Total/NA | Solid | 3550C | |

### Analysis Batch: 226554

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 490-72080-1 | 477 Dogwood - 2 | Total/NA | Soil | 8270D | 226322 |
| 490-72080-2 | 309 Ash | Total/NA | Soil | 8270D | 226322 |
| LCS 490-226322/2-A | Lab Control Sample | Total/NA | Solid | 8270D | 226322 |
| LCSD 490-226322/3-A | Lab Control Sample Dup | Total/NA | Solid | 8270D | 226322 |
| MB 490-226322/1-A | Method Blank | Total/NA | Solid | 8270D | 226322 |

## General Chemistry

### Analysis Batch: 226186

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 490-72075-D-2 DU | Duplicate | Total/NA | Solid | Moisture | |
| 490-72080-1 | 477 Dogwood - 2 | Total/NA | Soil | Moisture | |
| 490-72080-2 | 309 Ash | Total/NA | Soil | Moisture | |

# Lab Chronicle

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

TestAmerica Job ID: 490-72080-1

## Client Sample ID: 477 Dogwood - 2

**Date Collected: 02/03/15 15:00**
**Date Received: 02/07/15 08:30**

## Lab Sample ID: 490-72080-1

**Matrix: Soil**
**Percent Solids: 76.8**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.082 g | 5.0 mL | 226228 | 02/03/15 15:00 | JLP | TAL NSH |
| Total/NA | Analysis | 8260B | | 1 | 5.082 g | 5.0 mL | 226828 | 02/11/15 19:01 | KKK | TAL NSH |
| Total/NA | Prep | 3550C | | | 30.11 g | 1 mL | 226322 | 02/09/15 10:52 | LDC | TAL NSH |
| Total/NA | Analysis | 8270D | | 1 | 30.11 g | 1 mL | 226554 | 02/10/15 19:35 | SNR | TAL NSH |
| Total/NA | Analysis | Moisture | | 1 | | | 226186 | 02/07/15 16:40 | LOJ | TAL NSH |

## Client Sample ID: 309 Ash

**Date Collected: 02/05/15 14:15**
**Date Received: 02/07/15 08:30**

## Lab Sample ID: 490-72080-2

**Matrix: Soil**
**Percent Solids: 85.4**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.847 g | 5.0 mL | 226228 | 02/05/15 14:15 | JLP | TAL NSH |
| Total/NA | Analysis | 8260B | | 1 | 5.847 g | 5.0 mL | 226828 | 02/11/15 19:29 | KKK | TAL NSH |
| Total/NA | Prep | 3550C | | | 30.40 g | 1 mL | 226322 | 02/09/15 10:52 | LDC | TAL NSH |
| Total/NA | Analysis | 8270D | | 1 | 30.40 g | 1 mL | 226554 | 02/10/15 19:57 | SNR | TAL NSH |
| Total/NA | Analysis | Moisture | | 1 | | | 226186 | 02/07/15 16:40 | LOJ | 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: 490-72080-1

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

TestAmerica Job ID: 490-72080-1

## Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| North Carolina (WW/SW) | State Program | 4 | 387 | 12-31-15 |

The following analytes are included in this report, but certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| Moisture | | Soil | Percent Solids |

| | | | | |
|---|---|---|---|---|
| South Carolina | State Program | 4 | 84009 (001) | 02-28-15 |

The following analytes are included in this report, but certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| 8270D | 3550C | Soil | 1-Methylnaphthalene |
| Moisture | | Soil | Percent Solids |

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

# COOLER RECEIPT FORM

490-72080 Chain of Custody

Cooler Received/Opened On 2/7/2015 @ 8:30

1. Tracking # 4012 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 17610176

2. Temperature of rep. sample or temp blank when opened: 1.1 *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 (intial) AJH

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.#

I certify that I unloaded the cooler and answered questions 7-14 (intial) AJH

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 (intial) AJH

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 (intial) AJH

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

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

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 11/28/12

Loc: 490
72080

**TestAmerica**
THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

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

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring? Yes ____ No ____
Enforcement Action? Yes ____ No ____

Client Name/Account #: SBG - EEG # 2449
Address: 10179 Highway 78
City/State/Zip: Ladson, SC 29456
Site State: SC
Project Manager: Tom McElwee email: mcelwee@eeginc.net
PO#: 14106
Telephone Number: 843.412.2097 Fax No: (843) 879-0401
TA Quote #:
Sampler Name: (Print) Pratt Shaw
Project ID: Laurel Bay Housing Project
Sampler Signature:
Project #:

| Sample ID / Description | Date Sampled | Time Sampled | No. of Containers Shipped | Grab | Composite | Field Filtered | Preservative: Ice | $HNO_3$ (Red Label) | ~~HCl (Blue Label)~~ Sodium Bisulfate | NaOH (Orange Label) | $H_2SO_4$ Plastic (Yellow Label) | $H_2SO_4$ Glass(Yellow Label) | None (Black Label) | Other (Specify) Methanol | Matrix: Groundwater | Wastewater | Drinking Water | Sludge | Soil | Other (specify): | Analyze For: BTEX + Napth - 8260 | PAH - 8270D | RUSH TAT (Pre-Schedule) | Standard TAT | Fax Results | Send QC with report |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 477 Dogwood - 2 | 2/3/15 | 1500 | 5 | X | | | | | 2 | | | | 2 | 1 | | | | | X | | X | X | | | | |
| 309 Ash | 2/5/15 | 1415 | 5 | X | | | | | 2 | | | | 2 | 1 | | | | | X | | X | X | | | | |

Special Instructions:

Method of Shipment: FEDEX

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| | 2/6/15 | 0900 | FedEx | | |
| Relinquished by: | Date | Time | Received by TestAmerica: | Date | Time |
| | | | | 2/7/15 | 8:30 |

Laboratory Comments:
Temperature Upon Receipt: 1.1
VOCs Free of Headspace? Y N

# Login Sample Receipt Checklist

Client: Small Business Group Inc.

Job Number: 490-72080-1

**Login Number: 72080**
**List Number: 1**
**Creator: Huskey, Adam**

**List Source: TestAmerica Nashville**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | 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 | |
| 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 | |

ATTACHMENT A

# UST Certificate of Disposal

## CONTRACTOR

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

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

## TANK ID & LOCATION

UST 309Ash; 309 Ash Street, Laurel Bay Housing Area, MCAS Beaufort, S.C.

## DISPOSAL LOCATION

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

| TYPE OF TANK | SIZE (GAL) |
|---|---|
| Steel | 280 |

## CLEANING/DISPOSAL METHOD

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

## DISPOSAL CERTIFICATION

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

T.L. [signature] / 3/6/15

(Name) (Date)

**Appendix C**
**Regulatory Correspondence**

CDM - AECOM
Multimedia Joint Venture

Healthy People. Healthy Communities.

August 3, 2016

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
Dated July 2015, November 2015

Dear Mr. Drawdy:

The South Carolina Department of Health and Environmental Control (the Department) received the Underground Storage Tanks (USTs) Assessment Reports for the addresses listed in the attachment. 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 petruslb@dhec.sc.gov or 803-898-0294.

Sincerely,

Laurel Petrus, Environmental Engineer Associate
Bureau of Land and Waste Management

Cc: Russell Berry, EQC Region 8 (via email)
Bryan Beck, NAVFAC MIDATLANTIC (via email)
Craig Ehde (via email)

Attachment to: Petrus to Drawdy
Subject: No Further Action
Dated August 3, 2016

Laurel Bay Underground Assessment Reports for (28 addresses/29 tanks)

| No Further Action recommendation: | |
|---|---|
| 309 Ash | 1001 Bobwhite |
| 477 Dogwood Tank 2 | 1020 Foxglove |
| 563 Dahlia | 1063 Gardenia |
| 659 Camellia | 1065 Gardenia Tank 2 |
| 1213 Cardinal | 1100 Iris Tank 3* |
| 114 Banyan | 1139 Iris |
| 158 Cypress | 1141 Iris Tank 2 |
| 459 Elderberry | 1174 Bobwhite |
| 611 Dahlia | 1184 Bobwhite Tank 1 |
| 656 Camellia | 1184 Bobwhite Tank 2 |
| 671 Camellia | 1220 Cardinal |
| 678 Camellia | 1253 Dove |
| 724 Bluebell | 1332 Albatross |
| 732 Bluebell | 1387 Dove |
| 934 Albacore | |
| | |
| *1100 Iris Tank 1-NFA 12/19/2008, Tank 2-NFA 7/1/15; Paperwork for Tank 3 is labeled Tank 2 | |