SUMMARY REPORT 251 CAMELLIA DRIVE (FORMERLY 678 CAMELLIA DRIVE) 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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- Appendix A Multi-Media Selection Process for LBMH
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- Appendix C Regulatory Correspondence



List of Acronyms

bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
СТО	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 251 Camellia Drive (Formerly 678 Camellia Drive). 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 251 Camellia Drive (Formerly 678 Camellia Drive). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 678 Camellia Drive* (MCAS Beaufort, 2015). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On June 9, 2015, a single 280 gallon heating oil UST was removed from the front concrete porch area at 251 Camellia Drive (Formerly 678 Camellia Drive). 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 5'6" 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 251 Camellia Drive (Formerly 678 Camellia Drive) 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 251 Camellia Drive (Formerly 678 Camellia Drive). 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 678 Camellia Drive, Laurel Bay Military Housing Area*, November 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 1Laboratory Analytical Results - Soil251 Camellia Drive (Formerly 678 Camellia Drive)Laurel Bay Military Housing AreaMarine Corps Air Station BeaufortBeaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Results Sample Collected 06/09/15					
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 Anal	emivolatile 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





Appendix A - Multi-Media Selection Process for LBMH

Appendix B UST Assessment Report



Attachment 1

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

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

I. OWNERSHIP OF UST (S)

MCAS Beaufort, Comman	ding Officer Attn: NR	EAO (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. #		rino Corna	Dir Ctation	Decufront
Facility Name or Company	Site Identifier	TTHE COLDS	ALL SCATION,	Beaurort, SC
678 Camellia Dri Street Address or State Ro	ve, Laurel Bay Mili ad (as applicable)	tary Housin	ng Area	
Beaufort,	Beaufort			
City	County			

Attachment 2

III. INSURANCE INFORMATION

Insurance Stat	ement	
The petroleum release reported to DHEC on qualify to receive state monies to pay for appropriate site reha allowed in the State Clean-up fund, written confirmation of th insurance policy is required. <u>This section must be completed</u>	at Permit ID Number bilitation activities. Before particip e existence or non-existence of an e l .	may pation is environmental
Is there now, or has there ever been an insurance polic UST release? YES NO (check one)	y or other financial mechanism that	t covers this
If you answered YES to the above question, pla	ease complete the following inform	ation:
My policy provider is: The policy deductible is: The policy limit is:		
If you have this type of insurance, please include a cor	by 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

		678Camerria
A.	Product(ex. Gas, Kerosene)	Heating oil
B.	Capacity(ex. 1k, 2k)	280 gal
C.	Age	Late 1950s
D.	Construction Material(ex. Steel, FRP)	Steel
E٠	Month/Year of Last Use	Mid 1980s
F.	Depth (ft.) To Base of Tank	5'6"
G.	Spill Prevention Equipment Y/N	No
H·	Overfill Prevention Equipment Y/N	No
I.	Method of Closure Removed/Filled	Removed
J.	Date Tanks Removed/Filled	6/9/2015
K.	Visible Corrosion or Pitting Y/N	Yes
L.	Visible Holes Y/N	Yes

M. Method of disposal for any USTs removed from the ground (attach disposal manifests) <u>UST 678Camellia was removed from the ground and disposed at a</u> Subtitle "D" landfill. See Attachment "A".

Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests)
 UST 678Camellia 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 found throughout the tank.

VII. PIPING INFORMATION

		678Camellia
		Steel
Α.	Construction Material(ex. Steel, FRP)	& Copper
B.	Distance from UST to Dispenser	N/A
C.	Number of Dispensers	N/A
D.	Type of System Pressure or Suction	Suction
E.	Was Piping Removed from the Ground? Y/N	No
F.	Visible Corrosion or Pitting Y/N	Yes
G.	Visible Holes Y/N	No
H.	Age	Late 1950s
I.	If any corrosion, pitting, or holes were observed,	describe the location and extent for each piping run

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	Un
 A. Were any petroleum-stained or contaminated soils found in the UST excavation, soil borings, trenches, or monitoring wells? If yes, indicate depth and location on the site map. 		Х	
 B. Were any petroleum odors detected in the excavation, soil borings, trenches, or monitoring wells? 		Х	
mild, etc.)			
C. Was water present in the UST excavation, soil borings, or trenches?		X	
If yes, how far below land surface (indicate location and depth)?			
D. Did contaminated soils remain stockpiled on site after closure?		х	
If yes, indicate the stockpile location on the site map.			
Name of DHEC representative authorizing soil removal:			
E. Was a petroleum sheen or free product detected on any excavation		v	
or boring waters?		A	
If yes, indicate location and thickness.			

X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 84009

Β.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
678 Camellia	Excav at fill end	Soil	Sandy	5'6"	6/9/15 1100 hrs	P. Shaw	
					-		
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

* = Depth Below the Surrounding Land Surface

XI. SAMPLING METHODOLOGY

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

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

XII. RECEPTORS

		Yes	No
Α.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?		X
	If yes, indicate type of receptor, distance, and direction on site map.		
B.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?		X
	If yes, indicate type of well, distance, and direction on site map.		
C.	Are there any underground structures (e.g., basements) Located within 100 feet of the UST system?		X
	If yes, indicate type of structure, distance, and direction on site map.		
D.	Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the contamination? *Sewer, water, electricity	*X ty,	na l
	If yes, indicate the type of utility, distance, and direction on the site map.		nd I
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?		X
	If yes, indicate the area of contaminated soil on the site map.		

XIII. SITE MAP

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

(Attach Site Map Here)







Picture 1: Location of UST 678Camellia.



Picture 2: UST 678Camellia.



Picture 3: UST 678Camellia excavation.



Picture 4: Site after completion of work.

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	678Camellia		
Benzene	ND		
Toluene	ND		
Ethylbenzene	ND		1
Xylenes	ND		1
Naphthalene	ND		
Benzo (a) anthracene	ND		
Benzo (b) fluoranthene	ND		
Benzo (k) fluoranthene	ND		
Chrysene	ND		
Dibenz (a, h) anthracene	ND		
ТРН (ЕРА 3550)			
CoC			
Benzene			
Toluene			1
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			1	
МТВЕ	40				
Naphthalene	25				
Benzo (a) anthracene	10				
Benzo (b) flouranthene	10				
Benzo (k) flouranthene	10				
Chrysene	10				
Dibenz (a, h) anthracene	10				
EDB	.05				1.1
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: 490-80486-1 Client Project/Site: Laurel Bay Housing Project

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

Attn: Tom McElwee

Kuth Hay

Authorized for release by: 6/23/2015 1:03:15 PM

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.

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Sample Summary

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

Lab Sample ID 490-80486-1 Client Sample ID 678 Camellia Matrix Soil Collected Received 06/09/15 11:00 06/13/15 09:00

TestAmerica Nashville

TestAmerica Job ID: 490-80486-1

3

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

Job ID: 490-80486-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-80486-1

Comments No additional comments.

Receipt

The sample was received on 6/13/2015 9:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.4° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described 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.

TestAmerica Job ID: 490-80486-1

Definitions/Glossary

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

Glossary

5

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)

TestAmerica Nashville

RL

MDL Unit

Client Sample ID: 678 Camellia

Date Collected: 06/09/15 11:00 Date Received: 06/13/15 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00209	0.000699	mg/Kg	5	06/09/15 11:00	06/19/15 03:05	1
Ethylbenzene	ND		0.00209	0.000699	mg/Kg	¢	06/09/15 11:00	06/19/15 03:05	1
Naphthalene	ND		0.00522	0.00177	mg/Kg	Ċ	06/09/15 11:00	06/19/15 03:05	1
Toluene	ND		0.00209	0.000772	mg/Kg	\$	06/09/15 11:00	06/19/15 03:05	1
Xylenes, Total	ND		0.00522	0.00128	mg/Kg	¢	06/09/15 11:00	06/19/15 03:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		70-130				06/09/15 11:00	06/19/15 03:05	1
4-Bromofluorobenzene (Surr)	98		70 - 130				06/09/15 11:00	06/19/15 03:05	1
Dibromofluoromethane (Surr)	107		70 - 130				06/09/15 11:00	06/19/15 03:05	1
Toluene-d8 (Surr)	97		70 - 130				06/09/15 11:00	06/19/15 03:05	1
Method: 8270D - Semivola	tile Organic Co	mpounds	(GC/MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0714	0.0107	mg/Kg	24	06/18/15 09:35	06/18/15 16:33	1
Acenaphthylene	ND		0.0714	0.00959	mg/Kg	¢.	06/18/15 09:35	06/18/15 16:33	1
Anthracene	ND		0.0714	0.00959	mg/Kg	\$	06/18/15 09:35	06/18/15 16:33	1
Benzo[a]anthracene	ND		0.0714	0.0160	mg/Kg	\$	06/18/15 09:35	06/18/15 16:33	1

Benzo[a]anthracene	ND		0.0714	0.0160	mg/Kg	\$	06/18/15 09:35	06/18/15 16:33	1
Benzo[a]pyrene	ND		0.0714	0.0128	mg/Kg	\$	06/18/15 09:35	06/18/15 16:33	1
Benzo[b]fluoranthene	ND		0.0714	0.0128	mg/Kg	·~~~	06/18/15 09:35	06/18/15 16:33	1
Benzo[g,h,i]perylene	ND		0.0714	0.00959	mg/Kg	-+1	06/18/15 09:35	06/18/15 16:33	1
Benzo[k]fluoranthene	ND		0.0714	0.0149	mg/Kg	\$	06/18/15 09:35	06/18/15 16:33	1
1-Methylnaphthalene	ND		0.0714	0.0149	mg/Kg	4	06/18/15 09:35	06/18/15 16:33	1
Pyrene	ND		0.0714	0.0128	mg/Kg	4	06/18/15 09:35	06/18/15 16:33	1
Phenanthrene	ND		0.0714	0.00959	mg/Kg		06/18/15 09:35	06/18/15 16:33	1
Chrysene	ND		0.0714	0.00959	mg/Kg	- 5-	06/18/15 09:35	06/18/15 16:33	1
Dibenz(a,h)anthracene	ND		0.0714	0.00746	mg/Kg	4.	06/18/15 09:35	06/18/15 16:33	1
Fluoranthene	ND		0.0714	0.00959	mg/Kg	\$	06/18/15 09:35	06/18/15 16:33	1
Fluorene	ND		0.0714	0.0128	mg/Kg	\$	06/18/15 09:35	06/18/15 16:33	1
Indeno[1,2,3-cd]pyrene	ND		0.0714	0.0107	mg/Kg	\$	06/18/15 09:35	06/18/15 16:33	1
Naphthalene	ND		0.0714	0.00959	mg/Kg	\$	06/18/15 09:35	06/18/15 16:33	1
2-Methylnaphthalene	ND		0.0714	0.0170	mg/Kg	¢	06/18/15 09:35	06/18/15 16:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analvzed	Dil Fac
2-Fluorobiphenyl (Surr)	76		29-120				06/18/15 09:35	06/18/15 16:33	1
Terphenyl-d14 (Surr)	86		13 - 120				06/18/15 09:35	06/18/15 16:33	1
Nitrobenzene-d5 (Surr)	72		27 - 120				06/18/15 09:35	06/18/15 16:33	7
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	93		0.10	0.10	%		Charles I	06/13/15 14:58	1

TestAmerica Job ID: 490-80486-1

Lab Sample ID: 490-80486-1

Matrix: Soil Percent Solids: 92.9

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TestAmerica Nashville

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

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

Lab Sample ID: 490-80737-A-1-D MS Matrix: Solid Analysis Batch: 257514

Analysis Batch: 257514									Prep Batch: 257195
	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	ND		0.0486	0.06350		mg/Kg	\sim	131	31 - 143
Ethylbenzene	ND		0.0486	0.06426		mg/Kg	\$	132	23 - 161
Naphthalene	ND		0.0486	0.02059		mg/Kg	¢	42	10 - 176
Toluene	ND		0.0486	0.06233		mg/Kg	¢	128	30 - 155
Xylenes, Total	0.00146	J	0.0973	0.1274		mg/Kg	\mathcal{A}_{α}	129	25 - 162
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	112		70 - 130						
4-Bromofluorobenzene (Surr)	108		70 - 130						
Dibromofluoromethane (Surr)	108		70 - 130						
Toluene-d8 (Surr)	101		70 - 130						

MSD MSD

0.06187

0.06480

0.01989

0.06289

0.1275

Lab Sample ID: 490-80737-A-1-E MSD Matrix: Solid Analysis Batch: 257514

	Sample	Sample	Spike
Analyte	Result	Qualifier	Added
Benzene	ND		0.0491
Ethylbenzene	ND		0.0491
Naphthalene	ND		0.0491
Toluene	ND		0.0491
Xylenes, Total	0.00146	J	0.0982
	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	110		70 - 130
4-Bromofluorobenzene (Surr)	108		70 - 130
Dibromofluoromethane (Surr)	107		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Lab Sample ID: MB 490-257514/7 Matrix: Solid

Analysis Batch: 257514

%Rec. RPD

Client Sample ID: Matrix Spike Duplicate

Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
.06187		mg/Kg	52	126	31 - 143	3	50
.06480		mg/Kg	\$	132	23 - 161	1	50
.01989		mg/Kg	\$	41	10 - 176	3	50
.06289		mg/Kg	5	128	30 - 155	1	50
0.1275		mg/Kg	\$	128	25 - 162	0	50

Client Sample ID: Method Blank Prep Type: Total/NA

	IVIB	IN B							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000670	mg/Kg			06/19/15 02:03	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			06/19/15 02:03	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			06/19/15 02:03	1
Toluene	ND		0.00200	0.000740	mg/Kg			06/19/15 02:03	1
Xylenes, Total	ND		0.00500	0.00123	mg/Kg			06/19/15 02:03	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70-130					06/19/15 02:03	1
4-Bromofluorobenzene (Surr)	97		70-130					06/19/15 02:03	1
Dibromofluoromethane (Surr)	105		70-130					06/19/15 02:03	1
Toluene-d8 (Surr)	98		70-130					06/19/15 02:03	1

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Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Type: Total/NA Prep Batch: 257195

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

Lab Sample ID: LCS 490-2					Clien	nt Sal	mple ID	: Lab Contro	ol Sample		
Matrix: Solid									Prep Type:	Total/NA	
Analysis Batch: 257514											
			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene			0.0500	0.05817		mg/Kg		116	75 - 127		
Ethylbenzene			0.0500	0.05532		mg/Kg		111	80 - 134		
Naphthalene			0.0500	0.04167		mg/Kg		83	69 - 150		
Toluene			0.0500	0.05456		mg/Kg		109	80 - 132		
Xylenes, Total			0.100	0.1099		mg/Kg		110	80 - 137		
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	114		70 - 130								
4-Bromofluorobenzene (Surr)	94		70 - 130								
Dibromofluoromethane (Surr)	110		70 - 130								
Toluene-d8 (Surr)	97		70 - 130								
Lab Sample ID: LCSD 490	Lab Sample ID: LCSD 490-257514/5						Client Sample ID: Lab Control Sample D				

Lab Sample ID: LCSD 490-257514/5 Matrix: Solid Analysis Batch: 257514

	Spike	LCSD	LCSD				%Rec.		RPD
	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	0.0500	0.06036		mg/Kg		121	75 - 127	4	50
	0.0500	0.05896		mg/Kg		118	80 - 134	6	50
	0.0500	0.04662		mg/Kg		93	69 - 150	11	50
	0.0500	0.05763		mg/Kg		115	80 - 132	5	50
	0.100	0.1154		mg/Kg		115	80 - 137	5	50
LCSD									
Qualifier	Limits								
	70 - 130								
5	70 - 130								
7	70 - 130								
)	70 - 130								
	0 LCSD 7 Qualifier 1 5 7	Spike Added Added 0.0500 0.0500 0.0500 0.0500 0.100 0 LCSD y Qualifier Limits 1 70 - 130 5 70 - 130 7 70 - 130 9 70 - 130	Spike LCSD Added Result 0.0500 0.06036 0.0500 0.05896 0.0500 0.0563 0.100 0.1154 0 LCSD y Qualifier Limits 1 70 - 130 5 70 - 130 9 70 - 130	Spike LCSD LCSD Added Result Qualifier 0.0500 0.06036 0.05896 0.0500 0.05896 0.0500 0.0500 0.04662 0.0500 0.100 0.1154 0 0 LCSD 70 - 130 7 70 - 130 70 - 130 9 70 - 130 70 - 130	Spike LCSD LCSD Added Result Qualifier Unit 0.0500 0.06036 mg/Kg 0.0500 0.05896 mg/Kg 0.0500 0.04662 mg/Kg 0.0500 0.05763 mg/Kg 0.100 0.1154 mg/Kg 0 LCSD y qualifier Limits 1 70 - 130 70 - 130 70 - 130 9 70 - 130 70 - 130	Spike LCSD LCSD Added Result Qualifier Unit D 0.0500 0.06036 mg/Kg 0.0500 0.05896 mg/Kg 0.0500 0.05896 mg/Kg 0.0500 0.04662 mg/Kg 0.0500 0.05763 mg/Kg 0.100 0.1154 mg/Kg . 0 LCSD / Qualifier Limits . . 1 70 - 130 2 70 - 130 	Spike LCSD LCSD Added Result Qualifier Unit D %Rec 0.0500 0.06036 mg/Kg 121 0.0500 0.05896 mg/Kg 118 0.0500 0.04662 mg/Kg 93 0.0500 0.05763 mg/Kg 115 0.100 0.1154 mg/Kg 115 0 LCSD ////////////////////////////////////	Spike LCSD %Rec. Added Result Qualifier Unit D %Rec. Limits 0.0500 0.06036 mg/Kg 121 75 - 127 75 - 127 0.0500 0.05896 mg/Kg 118 80 - 134 0.0500 0.04662 mg/Kg 115 80 - 150 0.0500 0.05763 mg/Kg 115 80 - 132 0.100 0.1154 mg/Kg 115 80 - 137 0 LCSD ////////////////////////////////////	Spike LCSD %Rec. Added Result Qualifier Unit D %Rec. Added Result Qualifier Unit D %Rec. Limits RPD 0.0500 0.06036 mg/Kg 121 75 - 127 4 0.0500 0.05896 mg/Kg 118 80 - 134 6 0.0500 0.04662 mg/Kg 93 69 - 150 11 0.0500 0.05763 mg/Kg 115 80 - 132 5 0.100 0.1154 mg/Kg 115 80 - 137 5 0 LCSD / Qualifier Limits 115 80 - 137 5 0 LCSD / 70 - 130 7 70 - 130 7 7 0 70 - 130 / 70 - 130 7 7 7 7

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

Lab Sample ID: MB 490-257240/1-A Matrix: Solid Analysis Batch: 257288

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257240

Prep Type: Total/NA

rentering and a second and a second a								I TOP BOLOIN	201270
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0100	mg/Kg		06/18/15 09:35	06/18/15 15:21	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		06/18/15 09:35	06/18/15 15:21	1
Anthracene	ND		0.0670	0.00900	mg/Kg		06/18/15 09:35	06/18/15 15:21	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		06/18/15 09:35	06/18/15 15:21	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		06/18/15 09:35	06/18/15 15:21	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		06/18/15 09:35	06/18/15 15:21	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		06/18/15 09:35	06/18/15 15:21	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		06/18/15 09:35	06/18/15 15:21	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		06/18/15 09:35	06/18/15 15:21	1
Pyrene	ND		0.0670	0.0120	mg/Kg		06/18/15 09:35	06/18/15 15:21	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		06/18/15 09:35	06/18/15 15:21	1

TestAmerica Nashville

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

TestAmerica Job ID: 490-80486-1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Lab Sample ID: MB 490-2572 Matrix: Solid Analysis Batch: 257288	40/1-A						Client Samp	le ID: Method Prep Type: To Prep Batch: 3	Blank otal/NA 257240
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		0.0670	0.00900	mg/Kg		06/18/15 09:35	06/18/15 15:21	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		06/18/15 09:35	06/18/15 15:21	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg		06/18/15 09:35	06/18/15 15:21	1
Fluorene	ND		0.0670	0.0120	mg/Kg		06/18/15 09:35	06/18/15 15:21	4
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		06/18/15 09:35	06/18/15 15:21	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		06/18/15 09:35	06/18/15 15:21	1
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		06/18/15 09:35	06/18/15 15:21	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	84		29 - 120				06/18/15 09:35	06/18/15 15:21	1
Terphenyl-d14 (Surr)	92		13 - 120				06/18/15 09:35	06/18/15 15:21	1
Nitrobenzene-d5 (Surr)	81		27 - 120				06/18/15 09:35	06/18/15 15:21	1

Lab Sample ID: LCS 490-257240/2-A Matrix: Solid

Analysis Batch: 257288

Analysis Batch: 257288							Prep Batch: 257240
	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	1.67	1.390		mg/Kg		83	38 - 120
Anthracene	1.67	1.539		mg/Kg		92	46 - 124
Benzo[a]anthracene	1.67	1.508		mg/Kg		90	45 - 120
Benzo[a]pyrene	1.67	1.531		mg/Kg		92	45 - 120
Benzo[b]fluoranthene	1.67	1.433		mg/Kg		86	42 - 120
Benzo[g,h,i]perylene	1.67	1.599		mg/Kg		96	38 - 120
Benzo[k]fluoranthene	1.67	1.565		mg/Kg		94	42 - 120
1-Methylnaphthalene	1.67	1.477		mg/Kg		89	32 - 120
Pyrene	1.67	1.529		mg/Kg		92	43 - 120
Phenanthrene	1.67	1,408		mg/Kg		84	45 - 120
Chrysene	1.67	1.439		mg/Kg		86	43 - 120
Dibenz(a,h)anthracene	1.67	1.583		mg/Kg		95	32 - 128
Fluoranthene	1.67	1.534		mg/Kg		92	46 - 120
Fluorene	1.67	1.414		mg/Kg		85	42 - 120
ndeno[1,2,3-cd]pyrene	1.67	1.540		mg/Kg		92	41 - 121
Naphthalene	1.67	1.368		mg/Kg		82	32 - 120
2-Methylnaphthalene	1.67	1.357		mg/Kg		81	28 - 120

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	82		29 - 120
Terphenyl-d14 (Surr)	91		13 - 120
Nitrobenzene-d5 (Surr)	85		27 - 120

Lab Sample ID: LCSD 490-257240/3-A Matrix: Solid

Analysis Batch: 257288

Analysis Batch: 257288							Prep Ba	atch: 2	57240
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthylene	1.67	1.348		mg/Kg		81	38 - 120	3	50
Anthracene	1.67	1.461		mg/Kg		88	46 - 124	5	49

TestAmerica Nashville

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

TestAmerica Job ID: 490-80486-1

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

Lab Sample ID: LCSD 490-	257240/3-A				(Client Sa	mple	ID: Lab	Control	Sample	Dup
Matrix: Solid									Prep Ty	pe: Tot	al/NA
Analysis Batch: 257288									Prep Ba	atch: 25	57240
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzo[a]anthracene			1.67	1.431		mg/Kg		86	45 - 120	5	50
Benzo[a]pyrene			1.67	1.468		mg/Kg		88	45 - 120	4	50
Benzo[b]fluoranthene			1.67	1.386		mg/Kg		83	42 - 120	3	50
Benzo[g,h,i]perylene			1.67	1.472		mg/Kg		88	38 - 120	8	50
Benzo[k]fluoranthene			1.67	1.467		mg/Kg		88	42 - 120	6	45
1-Methylnaphthalene			1.67	1.417		mg/Kg		85	32 - 120	4	50
Pyrene			1.67	1.476		mg/Kg		89	43 - 120	4	50
Phenanthrene			1.67	1.354		mg/Kg		81	45 - 120	4	50
Chrysene			1.67	1.381		mg/Kg		83	43 - 120	4	49
Dibenz(a,h)anthracene			1.67	1.478		mg/Kg		89	32 - 128	7	50
Fluoranthene			1.67	1.462		mg/Kg		88	46 - 120	5	50
Fluorene			1.67	1.377		mg/Kg		83	42 - 120	3	50
Indeno[1,2,3-cd]pyrene			1.67	1.429		mg/Kg		86	41 - 121	7	50
Naphthalene			1.67	1.320		mg/Kg		79	32-120	4	50
2-Methylnaphthalene			1.67	1.316		mg/Kg		79	28 - 120	3	50
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
2-Fluorobiphenyl (Surr)	78		29 - 120								
Terphenyl-d14 (Surr)	86		13 - 120								
Nitrobenzene-d5 (Surr)	81		27 - 120								

Lab Sample ID: 490-80486-1 MS Matrix: Soil Analysis Batch: 257288

	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	ND		1.78	1.314		mg/Kg	\$	74	25 - 120
Anthracene	ND		1.78	1.432		mg/Kg	4	80	28 - 125
Benzo[a]anthracene	ND		1.78	1.414		mg/Kg	÷	79	23 - 120
Benzo[a]pyrene	ND		1.78	1.430		mg/Kg	÷.	80	15 - 128
Benzo[b]fluoranthene	ND		1.78	1.352		mg/Kg	4	76	12 - 133
Benzo[g,h,i]perylene	ND		1.78	1.485		mg/Kg	1.0	83	22 - 120
Benzo[k]fluoranthene	ND		1.78	1.420		mg/Kg	\$	80	28 - 120
1-Methylnaphthalene	ND		1.78	1.380		mg/Kg	÷	78	10 - 120
Pyrene	ND		1.78	1.448		mg/Kg	\$	81	20 - 123
Phenanthrene	ND		1.78	1.320		mg/Kg	-	74	21 - 122
Chrysene	ND		1.78	1.355		mg/Kg	\$	76	20 - 120
Dibenz(a,h)anthracene	ND		1.78	1.470		mg/Kg	¢	83	12-128
Fluoranthene	ND		1.78	1.412		mg/Kg	\$	79	10 - 143
Fluorene	ND		1.78	1.322		mg/Kg	**	74	20 - 120
Indeno[1,2,3-cd]pyrene	ND		1.78	1.414		mg/Kg	0	79	22 - 121
Naphthalene	ND		1.78	1.270		mg/Kg	¢.	71	10 - 120
2-Methylnaphthalene	ND		1.78	1.273		mg/Kg	-0	72	13 - 120
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
2-Fluorobiphenyl (Surr)	71		29 - 120						
Terphenyl-d14 (Surr)	79		13 - 120						

Prep Type: Total/NA Prep Batch: 257240 %Rec.

Client Sample ID: 678 Camellia

TestAmerica Nashville

Client Sample ID: 678 Camellia

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

Lab Sample ID: 490-80486-1 MS Client Sample ID: 678 Camellia Matrix: Soil Prep Type: Total/NA Prep Batch: 257240 Analysis Batch: 257288 MS MS %Recovery Qualifier Limits Surrogate 27 - 120 72 Nitrobenzene-d5 (Surr)

Lab Sample ID: 490-80486-1 MSD Matrix Soil

Matrix: Soil									Prep Ty	pe: Tot	al/NA
Analysis Batch: 257288									Prep Ba	atch: 25	57240
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthylene	ND		1.79	1.205		mg/Kg	ø	67	25 - 120	9	50
Anthracene	ND		1.79	1.274		mg/Kg	¢	71	28 - 125	12	49
Benzo[a]anthracene	ND		1.79	1.292		mg/Kg	9	72	23 - 120	9	50
Benzo[a]pyrene	ND		1.79	1.278		mg/Kg	\$	71	15 - 128	11	50
Benzo[b]fluoranthene	ND		1.79	1.236		mg/Kg	\$	69	12 - 133	9	50
Benzo[g,h,i]perylene	ND		1.79	1.308		mg/Kg	4	73	22 - 120	13	50
Benzo[k]fluoranthene	ND		1.79	1.265		mg/Kg	1	71	28 - 120	12	45
1-Methylnaphthalene	ND		1.79	1.285		mg/Kg	-2	72	10 - 120	7	50
Pyrene	ND		1.79	1.335		mg/Kg	-0	75	20 - 123	8	50
Phenanthrene	ND		1.79	1.198		mg/Kg	2	67	21 - 122	10	50
Chrysene	ND		1.79	1.219		mg/Kg	3	68	20 - 120	11	49
Dibenz(a,h)anthracene	ND		1.79	1.279		mg/Kg	2	71	12 - 128	14	50
Fluoranthene	ND		1.79	1.279		mg/Kg		71	10 - 143	10	50
Fluorene	ND		1.79	1.227		mg/Kg	34	68	20 - 120	7	50
Indeno[1,2,3-cd]pyrene	ND		1.79	1.277		mg/Kg	¢	71	22 - 121	10	50
Naphthalene	ND		1.79	1.205		mg/Kg	-	67	10 - 120	5	50
2-Methylnaphthalene	ND		1.79	1.196		mg/Kg	10	67	13 - 120	6	50
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								

Method:	Moisture	- Percent	Moisture

64

70 67

2-Fluorobiphenyl (Surr)

Nitrobenzene-d5 (Surr)

Terphenyl-d14 (Surr)

Lab Sample ID: 490-80468 Matrix: Solid	-B-2 DU					CI	ent Sample ID: Dup Prep Type: Tot	licate al/NA
Analysis Batch: 256041	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Percent Solids	83		83		%		0	20

29 - 120

13-120

27 - 120

QC Association Summary

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

GC/MS VOA

Prep Batch: 256676

Lab Sample ID 490-80486-1	Client Sample ID 678 Camellia	Prep Type Total/NĂ	Matrix Soil	Method 5035	Prep Batch
Prep Batch: 257195					
Lab Sample ID 490-80737-A-1-D MS	Client Sample ID Matrix Spike	Prep Type	Matrix	Method	Prep Batch
490-80737-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5030B	
Analysis Batch: 2575	14				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-80486-1	678 Camellia	Total/NA	Soil	8260B	256676
490-80737-A-1-D MS	Matrix Spike	Total/NA	Solid	8260B	257195
490-80737-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	257195
LCS 490-257514/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-257514/5	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-257514/7	Method Blank	Total/NA	Solid	8260B	
GC/MS Semi VOA					
Prep Batch: 257240					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-80486-1	678 Camellia	Total/NA	Soil	3550C	
490-80486-1 MS	678 Camellia	Total/NA	Soil	3550C	
490-80486-1 MSD	678 Camellia	Total/NA	Soil	3550C	
LCS 490-257240/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 490-257240/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
MB 490-257240/1-A	Method Blank	Total/NA	Solid	3550C	
Analysis Batch: 2572	88				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-80486-1	678 Camellia	Total/NA	Soil	8270D	257240
490-80486-1 MS	678 Camellia	Total/NA	Soil	8270D	257240
490-80486-1 MSD	678 Camellia	Total/NA	Soil	8270D	257240
LCS 490-257240/2-A	Lab Control Sample	Total/NA	Solid	8270D	257240
LCSD 490-257240/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	257240
MB 490-257240/1-A	Method Blank	Total/NA	Solid	8270D	257240
General Chemistr	У				
Analysis Batch: 2560	41				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-80468-B-2 DU	Duplicate	Total/NA	Solid	Moisture	Charles and the second of the
490-80468-B-2 MS	Matrix Spike	Total/NA	Solid	Moisture	
490-80468-B-2 MSD	Matrix Spike Duplicate	Total/NA	Solid	Moisture	
490-80486-1	678 Camellia	Total/NA	Soil	Moisture	
				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

TestAmerica Job ID: 490-80486-1

8

Lab Chronicle

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

TestAmerica Job ID: 490-80486-1

Lab Sample ID: 490-80486-1

Matrix: Soil Percent Solids: 92.9

Client Sample ID: 678 Camellia Date Collected: 06/09/15 11:00 Date Received: 06/13/15 09:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.157 g	5 g	256676	06/09/15 11:00	LEV	TAL NSH
Total/NA	Analysis	8260B		1	5.157 g	5 g	257514	06/19/15 03:05	JPV	TAL NSH
Total/NA	Prep	3550C			30.30 g	1 mL	257240	06/18/15 09:35	LDC	TAL NSH
Total/NA	Analysis	8270D		1	30.30 g	1 mL	257288	06/18/15 16:33	SNR	TAL NSH
Total/NA	Analysis	Moisture		1			256041	06/13/15 14:58	MAA	TAL NSH

Laboratory References:

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

TestAmerica Nashville

Method Summary

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-80486-1

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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

Laboratory: TestAmerica Nashville

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

Authority	Program		EPA Region	Certification ID	Expiration Date
South Carolina	State Pro	gram	4	84009 (001)	02-28-16
The following analyte:	s are included in this repo	rt, but certification is	s not offered by the g	overning authority:	
Analysis Method	Prep Method	Matrix	Analy	te	
8270D	3550C	Soil	1-Met	hylnaphthalene	
Moisture		Soil	Perce	nt Solids	

× (

TestAmerica Job ID: 490-80486-1

TestAmerica Nashville

THE LEADER IN ENVIRONMENTAL TESTING Nashville, TN	COOLER RECEIPT FORM	
Cooler Received/Opened On: 6/12/2015 (@0900	
1. Tracking # 9962	(last 4 digits, FedEx)	490-80486 Chain of Custo
Courier: Fed-Ex IR	Gun ID: 14740456	
2. Temperature of rep. sample or temp l	blank when opened; 3.4 Degrees Ce	ารเบร
3. If Item #2 temperature is 0°C or less, v	was the representative sample or temp blank	frozen? YES NO NA
4. Were custody seals on outside of coc	oler?	YES. NONA
If yes, how many and where:	1Back/ IFFONT	
5. Were the seals intact, signed, and dat	ted correctly?	ES NO. NA
6. Were custody papers inside cooler?		VES NO NA
I certify that I opened the cooler and ans	swered questions 1-6 (intial)	D'
7. Were custody seals on containers:	YES NO and Intac	t YESNOLNA
Were these signed and dated correctly	ly?	YES NO NA
8. Packing mat'l used? Bubblewrap Pla	lastic bag Peanuts Vermiculite Foam Inse	rt Paper Other None
9. Cooling process:	(Tce) Ice-pack Ice (direct contact)	Dry ice Other None
10. Did all containers arrive in good con	ndition (unbroken)?	VES NO NA
10. Did all containers arrive in good con 11. Were all container labels complete (#	ndition (unbroken)? #, date, signed, pres., etc)?	(YES)NONA
10. Did all containers arrive in good con 11. Were all container labels complete (# 12. Did all container labels and tags agre	ndition (unbroken)? #, date, signed, pres., etc)? ree with custody papers?	YESNONA VESNONA YESNONA
 Did all containers arrive in good con Were all container labels complete (# Did all container labels and tags agreeting to the tags of the tags agreeting to the tags of the tags of the tags of tags. 	ndition (unbroken)? #, date, signed, pres., etc)? ree with custody papers?	VESNONA VESNONA VESNONA VESNONA
 Did all containers arrive in good con Were all container labels complete (# Did all container labels and tags agre Bid all container labels and tags agre Were VOA vials received? Was there any observable headspace 	ndition (unbroken)? #, date, signed, pres., etc)? ree with custody papers? ace present in any VOA vial?	(TESNONA (TESNONA (TESNONA (TESNONA (TESNONA
 Did all containers arrive in good con Were all container labels complete (# Did all container labels and tags agreentiation of the second second	ndition (unbroken)? #, date, signed, pres., etc)? ree with custody papers? ace present in any VOA vial? r? YESNONA If multiple coolers,	(YES)NONA (YES)NONA (YES)NONA (YES)NONA YESNONA Sequence #
 Did all containers arrive in good con Were all container labels complete (# Did all container labels and tags agreed to the tags agreed to tagreed to tags agreed to tags agreed to tags agreed to tags agr	ndition (unbroken)? #, date, signed, pres., etc)? ree with custody papers? ace present in any VOA vial? r? YESNONA If multiple coolers, nswered questions 7-14 (intial)	VESNONA VESNONA VESNONA VESNONA VESNONA Sequence #
 Did all containers arrive in good con Were all container labels complete (# Did all container labels and tags agre Did all container labels and tags agre Were VOA vials received? Was there any observable headspace Was there a Trip Blank in this cooler certify that I unloaded the cooler and an On pres'd bottles, did pH test strips 	ndition (unbroken)? #, date, signed, pres., etc)? ree with custody papers? ace present in any VOA vial? r? YESNONA If multiple coolers, <u>nswered questions 7-14 (intial)</u> s suggest preservation reached the correct p	VESNONA VESNONA VESNONA VESNONA VESNONA sequence # H level? YESNONA
 Did all containers arrive in good con Were all container labels complete (# Did all container labels and tags agreentiation of the second second	ndition (unbroken)? #, date, signed, pres., etc)? ree with custody papers? acce present in any VOA vial? r? YES(O)NA If multiple coolers, <u>nswered questions 7-14 (intial)</u> s suggest preservation reached the correct p the correct preservatives were used	VESNONA VESNONA VESNONA VESNONA YESNONA Sequence # H level? YESNONA YESNONA
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 Did all containers arrive in good con Were all container labels complete (# Did all container labels and tags agreed to the tags agreed to tagreed to tags agreed to tags agreed to tags agreed to tags agree	ndition (unbroken)? #, date, signed, pres., etc)? ree with custody papers? ace present in any VOA vial? r? YESNONA If multiple coolers, <u>nswered questions 7-14 (intial)</u> s suggest preservation reached the correct p the correct preservatives were used of as per SOP and answered questions 15-16	VESNONA VESNONA VESNONA VESNONA VESNONA Sequence # H level? YESNONA YESNONA
 Did all containers arrive in good con Were all container labels complete (# Did all container labels and tags agreed to the tags agreed to tags agreed to the tags agreed to tags agr	ndition (unbroken)? #, date, signed, pres., etc)? ree with custody papers? ace present in any VOA vial? r? YES(O)NA If multiple coolers, inswered questions 7-14 (intial) s suggest preservation reached the correct p the correct preservatives were used off as per SOP and answered questions 15-16 out (ink, signed, etc)?	VESNONA VESNONA VESNONA VESNONA VESNONA sequence # H level? YESNONA YESNONA
 Did all containers arrive in good con Were all container labels complete (# Did all container labels and tags agreed to the tags agreed to tags agreed to the tags agreed to tags agr	ndition (unbroken)? #, date, signed, pres., etc)? ree with custody papers? acce present in any VOA vial? r? YESNONA If multiple coolers, <u>inswered questions 7-14 (intial)</u> s suggest preservation reached the correct p the correct preservatives were used of as per SOP and answered questions 15-16 out (ink, signed, etc)? the appropriate place?	VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA
 Did all containers arrive in good con Were all container labels complete (# Did all container labels and tags agreed to the tags agreed to tags ag	ndition (unbroken)? #, date, signed, pres., etc)? ree with custody papers? ace present in any VOA vial? r? YESNONA If multiple coolers, <u>inswered questions 7-14 (intial)</u> s suggest preservation reached the correct p the correct preservatives were used of as per SOP and answered questions 15-16 out (ink, signed, etc)? the appropriate place? e analysis requested?	VESNONA VESNONA VESNONA VESNONA VESNONA Sequence # H level? YESNONA VESNONA VESNONA VESNONA
 Did all containers arrive in good con Were all container labels complete (# Did all container labels and tags agreed to the tags agreed to t	ndition (unbroken)? #, date, signed, pres., etc)? ree with custody papers? acce present in any VOA vial? r? YES(O)NA If multiple coolers, <u>inswered questions 7-14 (initial)</u> s suggest preservation reached the correct p the correct preservatives were used OH as per SOP and answered questions 15-16 out (ink, signed, etc)? the appropriate place? a analysis requested? in tin each container?	VESNONA VESNONA VESNONA VESNONA VESNONA sequence # H level? YESNONA VESNONA VESNONA VESNONA VESNONA
 Did all containers arrive in good con Were all container labels complete (# Did all container labels and tags agreed to the tags agreed to tagreed to tags agreed to tag	ndition (unbroken)? #, date, signed, pres., etc)? ree with custody papers? acce present in any VOA vial? r? YES(NO) NA If multiple coolers, <u>inswered questions 7-14 (intial)</u> DA s suggest preservation reached the correct p the correct preservatives were used of as per SOP and answered questions 15-16 out (ink, signed, etc)? the appropriate place? e analysis requested? nt in each container? <u>MS and answered questions 17-20 (intial)</u>	VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA VESNONA

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Client: Small Business Group Inc.

Job Number: 490-80486-1

13

Login Number: 80486 List Number: 1 Creator: Armstrong, Daniel			List Source: TestAmerica Nashville
Question	Answer	Comment	0
Radioactivity wasn't checked or is = background as measured by a<br 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	3.4C	
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").	N/A		
Multiphasic samples are not present.	True		
Samples do not require splitting or compositing.	True		
Residual Chlorine Checked.	N/A		

ATTACHMENT A

1. Generator's US El	PA ID No. N	Aanifest Doc N	10.	2. Page 1	of			-
NON-HAZARDOUS MANIFEST				1				
. Generator's Mailing Address: Ge	nerator's Site Address (II	different than ma	iling):	A. Manife	st Number			
MCAS BEAUFORT LAUREL BAY HOUSING BEAUFORT SC 29904				W	MNA	01519125		
				B. State	Generator's ID			
Generator's Phone 843-879-0411								
Transporter 1 Company Name	6. US EPA	ID Number						-
	. C 2C_			C. State Tr	ansporter's	D		
Transporter 2 Company Name	8. US FPA	ID Number		D. Transpo	orter's Phone	2		
		in training		E. State Tr	ansporter's l	D		
				F. Transpo	orter's Phone			
9. Designated Facility Name and Site Address 10. US EPA HICKORY HILL LANDFILL 2621 LOW COUNTRY DRIVE 10. 10. RIDGELAND, SC 29936 10. 10. 10.		ID Number		C. Stata E				
				H State F	acility Phone	8/13.0	97 161	2
				1. State 1	acinty i none	045-5	/07-404.	
		13.0	tainer	1 13 7-11		1		
1. Description of Waste Materials		No.	Туре	13. Total Quantity	14. Unit Wt./Vol.	I. M	lisc. Commen	nts
HEATING OIL TANK FILLED WITH SAND		1.1	-					
WW Profile # 10265550				-	-0a	1		
with Lightle # TOSOSSSC				-		1		
		1.4						
WM Profile #		-						
WM Profile #								
						1		
		1	· · · · · ·					
WIM Profile #		for the second s						
Additional Descriptions for Materials Listed Above		K. Dispos	al Location					
		Cell				Level	1	
		Grid						
Special Handling Instructions and Additional Informatio	n	1.	-		4	1 3 3	F.	- 1
5 . 74 C		Y. 18	3150	ĩ	- D)	Ť		
urchase Order #	EMERGENCY C	ONTACT / PHO	DNE NO .:	0 659	112	A		
5. GENERATOR'S CERTIFICATE:	Constraint a w		1	0 15	1 H A 124	1		
nereby certify that the above-described materials are not	hazardous wastes as def	ined by 40 CF	R Part 261	or any applic	able state la	w, have bee	n fully and	ł
inted Name	Signature "On beh	ortation acco alf of"	rding to ap	plicable regu	lations.	Month	Dav	Yea
7. Transporter 1 Acknowledgement of Receipt of Material	ls					1		
Finted Name	Signature					Month	Day	Year
3. Transporter 2 Acknowledgement of Receipt of Material	ls					-		<u> </u>
Printed Name	Signature					Month	Day	Year
9. Certificate of Final Treatment/Disposal		Theory is a						
certify, on behalf of the above listed treatment facility, the	at to the best of my know	vledge, the ab	ove-descri	bed waste w	as managed	in compliant	ce with all	
 Facility Owner or Operator: Certification of receipt of r 	non-hazardous materials	covered by th	is manifes	t.				
Bala lat	Signature	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				Month	Day	Yea
Printed Name	and the second second second second							1
Printed Name								

Appendix C Regulatory Correspondence





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,

XLRS

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)

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	