SUMMARY REPORT 396 AZALEA DRIVE (FORMERLY 841 AZALEA 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 SUMMARY REPORT 396 AZALEA DRIVE (FORMERLY 841 AZALEA DRIVE) LAUREL BAY MILITARY HOUSING AREA MARINE CORPS AIR STATION BEAUFORT BEAUFORT, SC

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Prepared by:



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

Contract Number: N62470-14-D-9016

CTO WE52

**JUNE 2021** 



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## List of Acronyms

bgs below ground surface

BTEX benzene, toluene, ethylbenzene, and xylenes

CTO Contract Task Order

COPC constituents of potential concern

IDIQ Indefinite Delivery, Indefinite Quantity

IGWA Initial Groundwater Assessment

JV Joint Venture

LBMH Laurel Bay Military Housing MCAS Marine Corps Air Station

NAVFAC Mid-Lant Naval Facilities Engineering Command Mid-Atlantic

NFA No Further Action

PAH polynuclear aromatic hydrocarbon

QAPP Quality Assurance Program Plan

RBSL risk-based screening level

SCDHEC South Carolina Department of Health and Environmental Control

Site LBMH area at MCAS Beaufort, South Carolina

UST underground storage tank

VISL vapor intrusion screening level



#### 1.0 INTRODUCTION

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

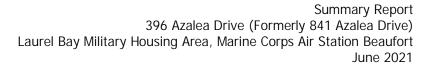
As of January 2014, the LBMH addresses were re-numbered to comply with the E-911 emergency response addressing system; however, in order to remain consistent with historical sampling and reporting for LBMH area, the residences will continue to be referenced with their original address numbers in sample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

This report summarizes the results the environmental investigation activities associated with the storage of home heating oil and the potential release of petroleum constituents at the referenced property. Based on the results of the investigation, a No Further Action (NFA) determination has been made by the South Carolina Department of Health and Environmental Control (SCDHEC) for 396 Azalea Drive (Formerly 841 Azalea 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).

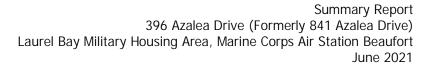
In 2007, MCAS Beaufort began a voluntary program to remove the unregulated, residential USTs and conduct sampling activities to determine if, and to what extent, petroleum constituents may have impacted the surrounding environment. MCAS Beaufort coordinated with SCDHEC to develop removal procedures that 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.

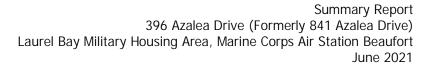
The results of the soil sampling at each former UST location were used to determine if a potential for groundwater contamination exists (i.e., soil results greater than RBSLs) and subsequently to select properties for follow-up initial groundwater assessment (IGWA) sampling. The results of the IGWA sampling (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 396 Azalea Drive (Formerly 841 Azalea Drive). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 841 Azalea Drive* (MCAS Beaufort, 2013). The UST Assessment Report is provided in Appendix B.

#### 2.1 UST Removal and Soil Sampling

On October 30, 2012, a single 280 gallon heating oil UST was removed from the front yard under the porch area at 396 Azalea Drive (Formerly 841 Azalea Drive). The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). The UST was removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the





base of the UST was 5'8" bgs and a single 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 (SCDEHC, 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 396 Azalea Drive (Formerly 841 Azalea 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 396 Azalea Drive (Formerly 841 Azalea Drive). This NFA determination was obtained in a letter dated May 15, 2014. SCDHEC's NFA letter is provided in Appendix C.

#### 4.0 REFERENCES

Marine Corps Air Station Beaufort, 2013. South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 841 Azalea Drive, Laurel Bay Military Housing Area, February 2013.

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2013. *Quality Assurance Program Plan for the Underground Storage Tank Management* Division, *Revision 2.0*, April 2013.





- South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2015. *Quality Assurance Program Plan for the Underground Storage Tank Management* Division, *Revision 3.0*, May 2015.
- South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2016. *Quality Assurance Program Plan for the Underground Storage Tank Management* Division, *Revision 3.1*, February 2016.
- South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2017. *R.61-92, Part 280, Underground Storage Tank Control Regulations*, March 2017.
- South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2018. *Underground Storage Tank Assessment Instructions for Permanent Closure and Change-In-Service*, March 2018.

# **Table**



# Table 1 Laboratory Analytical Results - Soil 396 Azalea Drive (Formerly 841 Azalea Drive)

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

Constituent	SCDHEC RBSLs (1)	Results Sample Collected 10/30/12					
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)							
Benzene	0.003	ND					
Ethylbenzene	1.15	ND					
Naphthalene	0.036	ND					
Toluene	0.627	ND					
Xylenes, Total	13.01	ND					
Semivolatile Organic Compounds Ana	lyzed by EPA Method 8270D (mg/kg)						
Benzo(a)anthracene	0.66	ND					
Benzo(b)fluoranthene	0.66	ND					
Benzo(k)fluoranthene	0.66	ND					
Chrysene	0.66	ND					
Dibenz(a,h)anthracene	0.66	ND					

### **Notes:**

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

mg/kg - milligram per kilogram

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

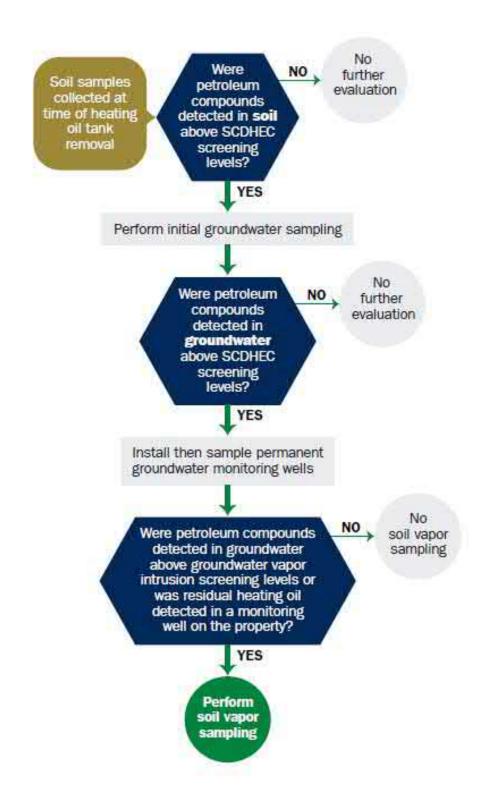
RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

<sup>(1)</sup> South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 2.0 (SCDHEC, April 2013).

# Appendix A Multi-Media Selection Process for LBMH





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

# Appendix B UST Assessment Report



### Attachment 1

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



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. #	_			
	ry Housing Area, Mari	<u>ie Corps Air S</u>	<u>Station, Bea</u>	ufort, SC
Facility Name or Company	Site Identifier			
	Laurel Bay Military	Housing Area		
Street Address or State Roa	d (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	841Azalea			
Product(ex. Gas, Kerosene)	Heating oil			
Capacity(ex. 1k, 2k)	280 gal			
Age	Late 1950s	 		
Construction Material(ex. Steel, FRP)	Steel		ļ 	
Month/Year of Last Use	Mid 1980s			
Depth (ft.) To Base of Tank	5'8"			
Spill Prevention Equipment Y/N	No			
Overfill Prevention Equipment Y/N	No			
Method of Closure Removed/Filled	Removed		<u></u>	
Date Tanks Removed/Filled	10/30/2012			
Visible Corrosion or Pitting Y/N	Yes			
Visible Holes Y/N	Yes	 		
Method of disposal for any USTs removed from the UST 841Azalea was removed from the			a	
"Subtitle D" landfill. See Attachm	nent "A".			
Method of disposal for any liquid petroleum, sludge disposal manifests) UST 841Azalea was previously fille			e USTs (a	attac

# VII. PIPING INFORMATION

	841Azalea					
	Steel					
Construction Material(ex. Steel, FRP)	& Copper					
Distance from UST to Dispenser	N/A					
Number of Dispensers	N/A					
Type of System Pressure or Suction	Suction					
Was Piping Removed from the Ground? Y/N	No					
Visible Corrosion or Pitting Y/N	Yes					
Visible Holes Y/N	No					
Age	Late 1950s					
-	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.						
	on the surface of the steel vent					
pipe. Copper supply and return l	ines were sound.					
VIII. BRIEF SITE DESCR						
The USTs at the residences are co	onstructed of single wall steel					
The USTs at the residences are co	onstructed of single wall steel for heating. These USTs were					
The USTs at the residences are co	onstructed of single wall steel for heating. These USTs were					
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The USTs at the residences are co	onstructed of single wall steel for heating. These USTs were					

# IX. SITE CONDITIONS

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

# X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 84009

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA#
841 Azalea	Excav at fill end	Soil	Sandy	5'8"	10/30/12 1430 hrs	P. Shaw	
	_						
8							
9							
10						_	
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

<sup>\* =</sup> Depth Below the Surrounding Land Surface

# XI. SAMPLING METHODOLOGY

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

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

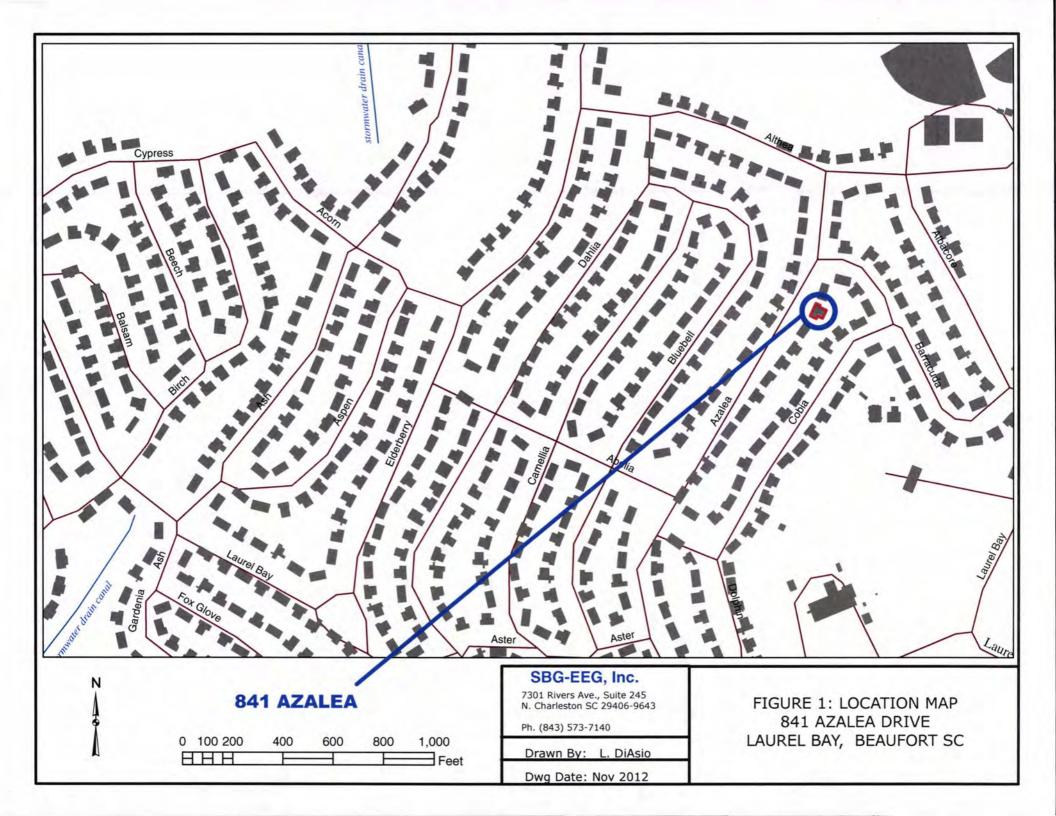
# XII. RECEPTORS

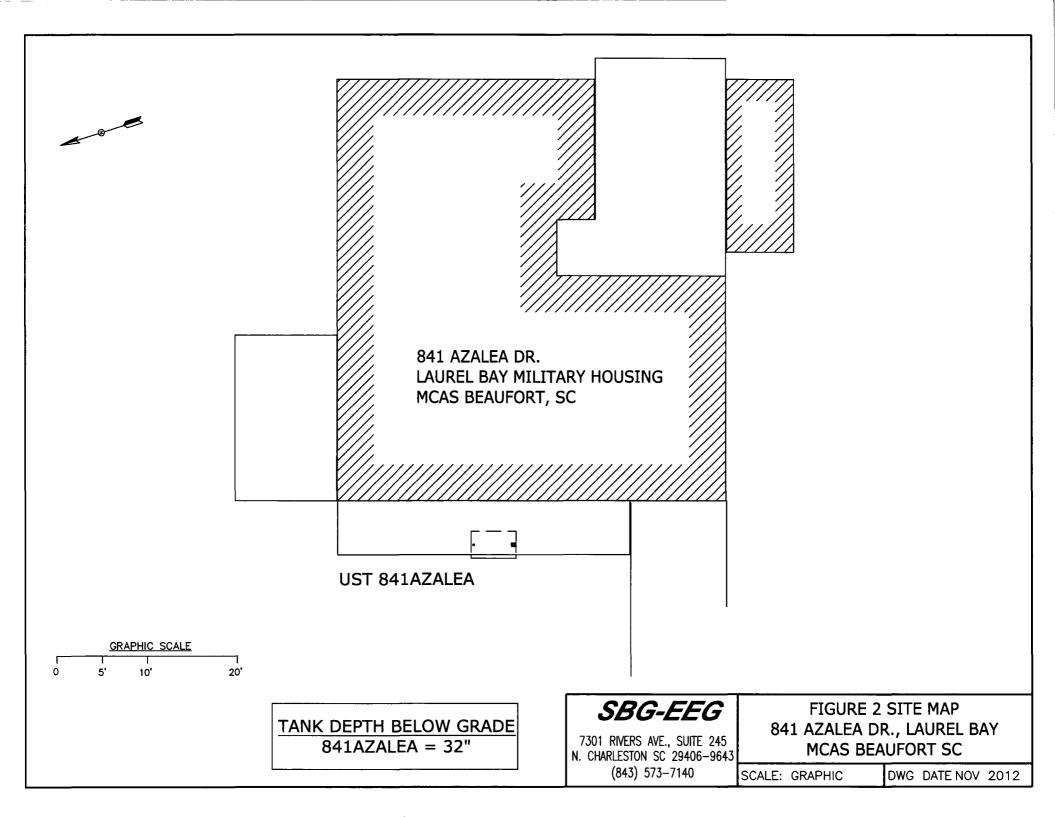
		Yes	No
A.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?		Х
	If yes, indicate type of receptor, distance, and direction on site map.		
В.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?		Х
	If yes, indicate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

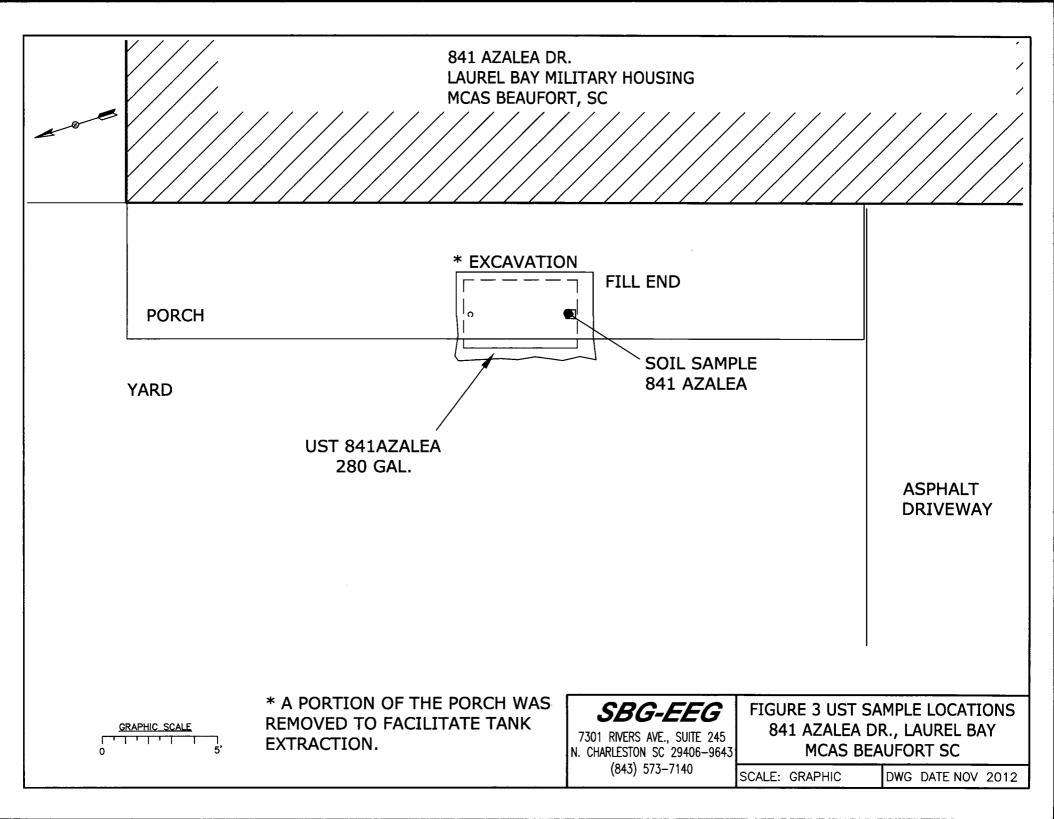
# XIII. SITE MAP

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

(Attach Site Map Here)









Picture 1: Location of UST 841Azalea.



Picture 2: UST 841Azalea excavation.

# XIV. SUMMARY OF ANALYSIS RESULTS

Enter the soil analytical data for each soil boring for all COC in the table below and on the following page.

		 		 T
CoC UST	841Azalea		 	
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)				
СоС				
Benzene				
Toluene				
Ethylbenzene				
Xylenes				
Naphthalene				
Benzo (a) anthracene				
Benzo (b) fluoranthene				
Benzo (k) fluoranthene				
Chrysene				
Dibenz (a, h) anthracene				
TPH (EPA 3550)				

SUMMARY OF ANALYSIS RESULTS (cont'd)
Enter the ground water analytical data for each sample for all CoC in the table below. If free product is present, indicate the measured thickness to the nearest 0.01 feet.

CoC	RBSL	W-1			
000			W-2	W -3	W -4
	(µg/l)				
Free Product	<b>N</b> I				
Thickness	None				
Benzene	5				
Toluene	1,000				
Ethylbenzene	700				
Xylenes	10,000				
Total BTEX	N/A				
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				
1,2-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: 490-10764-1

Client Project/Site: Laurel Bay Housing Project

For:

Environmental Enterprise Group 10179 Highway 78 Ladson, South Carolina 29456

Attn: Mr. Tom McElwee

Kuth Hay

Authorized for release by: 11/17/2012 6:52:51 PM

Ken Hayes Project Manager I

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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eceipt Checklists	

# Sample Summary

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-10764-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-10764-1	1102 Iris-2	Solid	10/29/12 14:15	11/06/12 08:10
490-10764-2	1345 Cardinal	Solid	10/29/12 15:15	11/06/12 08:10
490-10764-3	1133 Iris-2	Solid	10/30/12 15:15	11/06/12 08:10
490-10764-4	841 Azalea	Solid	10/30/12 14:30	11/06/12 08:10
490-10764-5	1004 Bobwhite	Solid	10/31/12 15:30	11/06/12 08:10
490-10764-6	471 Dogwood-2	Solid	10/31/12 14:35	11/06/12 08:10
490-10764-7	471 Dogwood-3	Solid	11/01/12 15:35	11/06/12 08:10

#### **Case Narrative**

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-10764-1

Job ID: 490-10764-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-10764-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 11/6/2012 8:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.4° C.

#### GC/MS VOA

Method(s) 8260B: The method blank for batch 35106 contained Naphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 35106.

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside control limits: 471 Dogwood-3 (490-10764-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 35535.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 35544.

No other analytical or quality issues were noted.

#### GC/MS Semi VOA

No analytical or quality issues were noted.

#### **Organic Prep**

No analytical or quality issues were noted.

#### **VOA Prep**

No analytical or quality issues were noted.

# **Definitions/Glossary**

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-10764-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description					
X	Surrogate is outside control limits					
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.					

#### GC/MS Semi VOA

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

# Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.	
☆	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CNF	Contains no Free Liquid	
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
EDL	Estimated Detection Limit	
EPA	United States Environmental Protection Agency	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
ND	Not detected at the reporting limit (or MDL or EDL if shown)	
PQL	Practical Quantitation Limit	
QC	Quality Control	
RL	Reporting Limit	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	
MDA	Minimum detectable activity	
MDC	Minimum detectable concentration	
RER	Relative error ratio	
DER	Duplicate error ratio (normalized absolute difference)	
DLC	Decision level concentration	
RL	Reporting Limit or Requested Limit (Radiochemistry only)	

# **Client Sample Results**

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-10764-1

Client Sample ID: 1102 Iris-2

Date Collected: 10/29/12 14:15
Date Received: 11/06/12 08:10

Lab Sample ID: 490-10764-1

Matrix: Solid Percent Solids: 90.0

Date Received: 11/06/12 08:10								Percent Soli	ds: 90.0
Method: 8260B - Volatile Organ	The second secon	(GC/MS) Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	<b>Qualifici</b>	0.00216	0.000724		0	11/07/12 09:45	11/10/12 07:20	1
Ethylbenzene	ND		0.00216	0.000724		0	11/07/12 09:45	11/10/12 07:20	1
Naphthalene	ND		0.00540	0.00184	mg/Kg	0	11/07/12 09:45	11/10/12 07:20	1
Toluene	ND		0.00216	0.000799	mg/Kg	0	11/07/12 09:45	11/10/12 07:20	1
Xylenes, Total	ND		0.00540		mg/Kg	0	11/07/12 09:45	11/10/12 07:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 130				11/07/12 09:45	11/10/12 07:20	1
4-Bromofluorobenzene (Surr)	109		70 - 130				11/07/12 09:45	11/10/12 07:20	1
Dibromofluoromethane (Surr)	98		70 - 130				11/07/12 09:45	11/10/12 07:20	1
Toluene-d8 (Surr)	99		70 - 130				11/07/12 09:45	11/10/12 07:20	1
Method: 8270D - Semivolatile			,						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0660	0.00985	mg/Kg	0	11/08/12 15:28	11/10/12 20:04	1
Acenaphthylene	ND		0.0660	0.00886	mg/Kg	\$	11/08/12 15:28	11/10/12 20:04	1
Anthracene	ND		0.0660	0.00886	mg/Kg	**	11/08/12 15:28	11/10/12 20:04	1
Benzo[a]anthracene	ND		0.0660	0.0148	mg/Kg	**	11/08/12 15:28	11/10/12 20:04	1
Benzo[a]pyrene	0.0495	J	0.0660	0.0118	mg/Kg	10-	11/08/12 15:28	11/10/12 20:04	1
Benzo[b]fluoranthene	ND		0.0660	0.0118	mg/Kg	•	11/08/12 15:28	11/10/12 20:04	1
Benzo[g,h,i]perylene	0.0216	J	0.0660	0.00886	mg/Kg	0	11/08/12 15:28	11/10/12 20:04	1
Benzo[k]fluoranthene	ND		0.0660	0.0138	mg/Kg	0	11/08/12 15:28	11/10/12 20:04	1
1-Methylnaphthalene	ND		0.0660	0.0138	mg/Kg	32	11/08/12 15:28	11/10/12 20:04	1
Pyrene	ND		0.0660	0.0118	mg/Kg	0	11/08/12 15:28	11/10/12 20:04	1
Phenanthrene	ND		0.0660	0.00886	mg/Kg	4	11/08/12 15:28	11/10/12 20:04	1
Chrysene	0.0543	J	0.0660	0.00886	mg/Kg	431	11/08/12 15:28	11/10/12 20:04	1
Dibenz(a,h)anthracene	ND		0.0660	0.00689	mg/Kg	Ø.	11/08/12 15:28	11/10/12 20:04	1
Fluoranthene	ND		0.0660	0.00886	mg/Kg	10	11/08/12 15:28	11/10/12 20:04	1
Fluorene	ND		0.0660	0.0118	mg/Kg	众	11/08/12 15:28	11/10/12 20:04	1
Indeno[1,2,3-cd]pyrene	0.0187	J	0.0660	0.00985	mg/Kg	ø	11/08/12 15:28	11/10/12 20:04	1
Naphthalene	ND		0.0660	0.00886	mg/Kg	O	11/08/12 15:28	11/10/12 20:04	1
2-Methylnaphthalene	ND		0.0660	0.0158	mg/Kg	Q	11/08/12 15:28	11/10/12 20:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	66		29 - 120				11/08/12 15:28	11/10/12 20:04	1
Terphenyl-d14 (Surr)	81		13 - 120				11/08/12 15:28	11/10/12 20:04	1
Nitrobenzene-d5 (Surr)	71		27 - 120				11/08/12 15:28	11/10/12 20:04	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90		0.10	0.10	%			11/07/12 08:09	1

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-10764-1

Client Sample ID: 1345 Cardinal

Date Collected: 10/29/12 15:15 Date Received: 11/06/12 08:10 Lab Sample ID: 490-10764-2

Matrix: Solid

Percent Solids: 93.0

Benzene	Dil Fa	Analyzad	Drongered	-	Unit	MD	RL		The second secon	Method: 8260B - Volatile Organ
Ethybenzene ND 0.00242 0.000812 mg/kg 0.11/07/12 09.45 11/12/12 21.28 Naphthalene ND 0.00666 0.00206 mg/kg 0.11/07/12 09.45 11/12/12 21.28 Naphthalene ND 0.00666 0.00206 mg/kg 0.11/07/12 09.45 11/12/12 21.28 Naphthalene ND 0.00666 0.00206 mg/kg 0.11/07/12 09.45 11/12/12 21.28 Naphthalene ND 0.00666 0.000812 mg/kg 0.11/07/12 09.45 11/12/12 21.28 Naphthalene ND 0.00666 0.000812 mg/kg 0.11/07/12 09.45 11/12/12 21.28 Naphthalene A/ (Surr) 101 70.130								Qualifier		
Naphthalene					5 5					
Toluene ND 0.00242 0.000897 mg/Kg 0 11/07/12 09.45 11/12/12 21:28 Myrenses, Total ND 0.00606 0.000812 mg/Kg 0 11/07/12 09.45 11/12/12 21:28 1										
ND										
Surrogate										
1,2-Dichloroethane-d4 (Surr)		11/12/12 21:26	11/07/12 09:45	345	mg/Kg	0.000812	0.00606		ND	Xylenes, Total
11/07/12 09.45   11/12/12 21:26   11/1	Dil Fa	Analyzed	Prepared				Limits	Qualifier	%Recovery	Surrogate
102		11/12/12 21:26	11/07/12 09:45				70 - 130		101	1,2-Dichloroethane-d4 (Surr)
Method: 8270D - Semivolatile Organic Compounds (GC/MS)   Analyte   Result Qualifier   RL   MDL   Unit   D   Prepared   Analyzed   Acenaphthene   ND   0.0654   0.00976   mg/Kg   0   11/08/12 15:28   11/10/12 20:28   Acenaphthylene   ND   0.0654   0.00878   mg/Kg   0   11/08/12 15:28   11/10/12 20:28   Analyzed   Acenaphthylene   ND   0.0654   0.00878   mg/Kg   0   11/08/12 15:28   11/10/12 20:28   Analyzed   Acenaphthylene   ND   0.0654   0.00878   mg/Kg   0   11/08/12 15:28   11/10/12 20:28   Benzo[a]anthracene   ND   0.0654   0.0146   mg/Kg   0   11/08/12 15:28   11/10/12 20:28   Benzo[a]byrene   ND   0.0654   0.0117   mg/Kg   0   11/08/12 15:28   11/10/12 20:28   Benzo[a]byrene   ND   0.0654   0.0117   mg/Kg   0   11/08/12 15:28   11/10/12 20:28   Benzo[a]hjerylene   ND   0.0654   0.0117   mg/Kg   0   11/08/12 15:28   11/10/12 20:28   Benzo[a]hjerylene   ND   0.0654   0.0137   mg/Kg   0   11/08/12 15:28   11/10/12 20:28   Benzo[a]hjerylene   ND   0.0654   0.0137   mg/Kg   0   11/08/12 15:28   11/10/12 20:28   Benzo[a]hjerylene   ND   0.0654   0.0137   mg/Kg   0   11/08/12 15:28   11/10/12 20:28   Phenanthrene   ND   0.0654   0.0137   mg/Kg   0   11/08/12 15:28   11/10/12 20:28   Phenanthrene   ND   0.0654   0.0017   mg/Kg   0   11/08/12 15:28   11/10/12 20:28   Phenanthrene   ND   0.0654   0.00878   mg/Kg   0   11/08/12 15:28   11/10/12 20:28   Phenanthrene   ND   0.0654   0.00878   mg/Kg   0   11/08/12 15:28   11/10/12 20:28   Phenanthrene   ND   0.0654   0.00878   mg/Kg   0   11/08/12 15:28   11/10/12 20:28   Phenanthrene   ND   0.0654   0.00878   mg/Kg   0   11/08/12 15:28   11/10/12 20:28   Phenanthrene   ND   0.0654   0.00878   mg/Kg   0   11/08/12 15:28   11/10/12 20:28   Phenanthrene   ND   0.0654   0.00878   mg/Kg   0   11/08/12 15:28   11/10/12 20:28   Phenanthrene   ND   0.0654   0.00878   mg/Kg   0   11/08/12 15:28   11/10/12 20:28   Phenanthrene   ND   0.0654   0.00878   mg/Kg   0   11/08/12 15:28   11/10/12 20:28   Phenanthrene   ND   0.0654   0.00878   mg/Kg   0   11/08/12 15:28   11/10/12 20:		11/12/12 21:26	11/07/12 09:45				70 - 130		114	4-Bromofluorobenzene (Surr)
Method: 8270D - Semivolatile Organic Compounds (GC/MS)         Result Result Qualifier         RL         MDL Unit         D         Prepared Prepared         Analyzed           Acenaphthene         ND         0.0654         0.0976 mg/Kg         0.11/08/12 15:28         11/10/12 20:28           Acenaphthylene         ND         0.0654         0.00878 mg/Kg         0.11/08/12 15:28         11/10/12 20:28           Anthracene         ND         0.0654         0.00878 mg/Kg         0.11/08/12 15:28         11/10/12 20:28           Benzo[a]anthracene         ND         0.0654         0.0147 mg/Kg         0.11/08/12 15:28         11/10/12 20:28           Benzo[a]priyene         ND         0.0654         0.0117 mg/Kg         0.11/08/12 15:28         11/10/12 20:28           Benzo[a]priyene         ND         0.0654         0.0117 mg/Kg         0.11/08/12 15:28         11/10/12 20:28           Benzo[a]h.i]perylene         ND         0.0654         0.0117 mg/Kg         0.11/08/12 15:28         11/10/12 20:28           Benzo[a]h.i]perylene         ND         0.0654         0.00878 mg/Kg         0.11/08/12 15:28         11/10/12 20:28           Benzo[a]h.i]perylene         ND         0.0654         0.00878 mg/Kg         0.11/08/12 15:28         11/10/12 20:28           Benzo[a]h.i]perylene <td></td> <td>11/12/12 21:26</td> <td>11/07/12 09:45</td> <td></td> <td></td> <td></td> <td>70 - 130</td> <td></td> <td>102</td> <td>Dibromofluoromethane (Surr)</td>		11/12/12 21:26	11/07/12 09:45				70 - 130		102	Dibromofluoromethane (Surr)
Analyte   Result   Qualifier   RL   MDL   Unit   D   Prepared   Analyzed   Acenaphthene   ND   0.0654   0.00976   mg/Kg   0   11/08/12 15:28   11/10/12 20:28   Acenaphthylpene   ND   0.0654   0.00878   mg/Kg   0   11/08/12 15:28   11/10/12 20:28   Acenaphthylpene   ND   0.0654   0.00878   mg/Kg   0   11/08/12 15:28   11/10/12 20:28   Acenaphtylpene   ND   0.0654   0.00878   mg/Kg   0   11/08/12 15:28   11/10/12 20:28   Benzo[a]anthracene   ND   0.0654   0.0146   mg/Kg   0   11/08/12 15:28   11/10/12 20:28   Benzo[a]pyrene   ND   0.0654   0.0117   mg/Kg   0   11/08/12 15:28   11/10/12 20:28   Benzo[a]pyrene   ND   0.0654   0.0117   mg/Kg   0   11/08/12 15:28   11/10/12 20:28   Benzo[a]pyrene   ND   0.0654   0.0117   mg/Kg   0   11/08/12 15:28   11/10/12 20:28   Benzo[a]pyrene   ND   0.0654   0.0137   mg/Kg   0   11/08/12 15:28   11/10/12 20:28   Benzo[a]pyrene   ND   0.0654   0.0137   mg/Kg   0   11/08/12 15:28   11/10/12 20:28   Benzo[a]pyrene   ND   0.0654   0.0137   mg/Kg   0   11/08/12 15:28   11/10/12 20:28   11/08/12 15:28   11/10/12 20:		11/12/12 21:26	11/07/12 09:45				70 - 130		96	Toluene-d8 (Surr)
Acenaphthene ND 0.0654 0.00976 mg/Kg 11/08/12 15:28 11/10/12 20:28 Acenaphthylene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Anthracene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[a]anthracene ND 0.0654 0.0146 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[a]pyrene ND 0.0654 0.0117 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[a]pyrene ND 0.0654 0.0117 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[a]pyrene ND 0.0654 0.0117 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[a]pyrene ND 0.0654 0.0117 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[a]h,i]perylene ND 0.0654 0.0117 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[a]h,i]perylene ND 0.0654 0.0137 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[a]h,i]perylene ND 0.0654 0.0137 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[a]h,i]perylene ND 0.0654 0.0137 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[a]h,i]perylene ND 0.0654 0.0137 mg/Kg 11/08/12 15:28 11/10/12 20:28 Pyrene ND 0.0654 0.0117 mg/Kg 11/08/12 15:28 11/10/12 20:28 Debrzo[a,h)anthracene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Dibenz[a,h)anthracene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Dibenz[a,h)anthracene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Dibenz[a,h)anthracene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Dibenz[a,h)anthracene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Dibenz[a,h)anthracene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Dibenz[a,h)anthracene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Dibenz[a,h)anthracene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Dibenz[a,h)anthracene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Dibenz[a,h)anthracene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Dibenz[a,h)anthracene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Dibenz[a,h)anthracene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Dibenz[a,h)anthracene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Dibenz[a,h)anthracene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Dibenz[								nds (GC/MS)	Organic Compou	Method: 8270D - Semivolatile C
Acenaphthylene  ND  0.0654  0.00878 mg/Kg  11/08/12 15:28  11/10/12 20:28  Anthracene  ND  0.0654  0.00878 mg/Kg  11/08/12 15:28  11/10/12 20:28  Benzo[a]anthracene  ND  0.0654  0.0146 mg/Kg  11/08/12 15:28  11/10/12 20:28  Benzo[a]pyrene  ND  0.0654  0.0117 mg/Kg  11/08/12 15:28  11/10/12 20:28  Benzo[b]fluoranthene  ND  0.0654  0.0117 mg/Kg  11/08/12 15:28  11/10/12 20:28  Benzo[b,]perylene  ND  0.0654  0.0117 mg/Kg  11/08/12 15:28  11/10/12 20:28  Benzo[b,]perylene  ND  0.0654  0.0117 mg/Kg  11/08/12 15:28  11/10/12 20:28  Benzo[b,]perylene  ND  0.0654  0.0137 mg/Kg  11/08/12 15:28  11/10/12 20:28  Benzo[b,]nerylene  ND  0.0654  0.0137 mg/Kg  11/08/12 15:28  11/10/12 20:28  Benzo[b,]nerylene  ND  0.0654  0.0137 mg/Kg  11/08/12 15:28  11/10/12 20:28  Pyrene  ND  0.0654  0.0137 mg/Kg  11/08/12 15:28  11/10/12 20:28  Pyrene  ND  0.0654  0.0137 mg/Kg  11/08/12 15:28  11/10/12 20:28  Pyrene  ND  0.0654  0.00878 mg/Kg  11/08/12 15:28  11/10/12 20:28  Phenanthrene  ND  0.0654  0.00878 mg/Kg  11/08/12 15:28  11/10/12 20:28  Fluoranthene  ND  0.0654  0.00878 mg/Kg  11/08/12 15:28  11/10/12 20:28  Fluoranthene  ND  0.0654  0.00878 mg/Kg  11/08/12 15:28  11/10/12 20:28  Fluoranthene  ND  0.0654  0.00878 mg/Kg  11/08/12 15:28  11/10/12 20:28  Fluorene  ND  0.0654  0.00878 mg/Kg  11/08/12 15:28  11/10/12 20:28  Fluorene  ND  0.0654  0.00878 mg/Kg  11/08/12 15:28  11/10/12 20:28  Fluorene  ND  0.0654  0.00878 mg/Kg  11/08/12 15:28  11/10/12 20:28  Fluorene  ND  0.0654  0.00878 mg/Kg  11/08/12 15:28  11/10/12 20:28  Fluorene  ND  0.0654  0.00878 mg/Kg  11/08/12 15:28  11/10/12 20:28  Fluorene  ND  0.0654  0.00878 mg/Kg  11/08/12 15:28  11/10/12 20:28  11/08/12 15:28  11/10/12 20:28  11/08/12 15:28  11/10/12 20:28  11/08/12 15:28  11/10/12 20:28  11/08/12 15:28  11/10/12 20:28  11/08/12 15:28  11/10/12 20:28  11/08/12 15:28  11/10/12 20:28  11/08/12 15:28  11/10/12 20:28  11/08/12 15:28  11/10/12 20:28  11/08/12 15:28  11/10/12 20:28  11/08/12 15:28  11/10/12 20:28  11/08/12 15:28  11/10/12 20:28  11/08/12 15:28  11/10/12 2	Dil Fa				2107			Qualifier	275700	
Anthracene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[a]anthracene ND 0.0654 0.0146 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[a]pyrene ND 0.0654 0.0117 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[a]pyrene ND 0.0654 0.0117 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[b]fluoranthene ND 0.0654 0.0117 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[b, i]perylene ND 0.0654 0.0117 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[b, i]perylene ND 0.0654 0.0137 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[b, i]perylene ND 0.0654 0.0137 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[b, i]perylene ND 0.0654 0.0137 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[b, i]perylene ND 0.0654 0.0137 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[b, i]perylene ND 0.0654 0.0137 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[b, i]perylene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[b, i]perylene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[b, i]perylene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[b, i]perylene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[b, i]perylene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[b, i]perylene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[b, i]perylene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[b, i]perylene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[b, i]perylene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[b, i]perylene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[b, i]perylene/lene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[b, i]perylene/lene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[b, i]perylene/lene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[b, i]perylene/lene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[b, i]perylene/lene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[b, i]perylene/lene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Benzo[b, i]perylene/lene ND 0.0654 0.00878 mg/K		11/10/12 20:28	11/08/12 15:28		mg/Kg	0.00976	0.0654		ND	Acenaphthene
Senzo[a]anthracene		11/10/12 20:28	11/08/12 15:28	0	mg/Kg	0.00878	0.0654		ND	Acenaphthylene
Senzo a pyrene   ND   0.0654   0.0117   mg/Kg   0.11/08/12 15:28   11/10/12 20:28		11/10/12 20:28	11/08/12 15:28	·Ot	mg/Kg	0.00878	0.0654		ND	Anthracene
Benzo     Denzo     Denz	- 4	11/10/12 20:28	11/08/12 15:28	0	mg/Kg	0.0146	0.0654		ND	Benzo[a]anthracene
Benzolg,h,i]perylene		11/10/12 20:28	11/08/12 15:28	**	mg/Kg	0.0117	0.0654		ND	Benzo[a]pyrene
Benzo[k]fluoranthene   ND   0.0654   0.0137 mg/Kg   11/08/12 15:28   11/10/12 20:28     1-Methylnaphthalene   ND   0.0654   0.0137 mg/Kg   11/08/12 15:28   11/10/12 20:28     1-Methylnaphthalene   ND   0.0654   0.0117 mg/Kg   11/08/12 15:28   11/10/12 20:28     1-Methylnaphthalene   ND   0.0654   0.0117 mg/Kg   11/08/12 15:28   11/10/12 20:28     1-Methylnaphthalene   ND   0.0654   0.00878 mg/Kg   11/08/12 15:28   11/10/12 20:28     1-Methylnaphthalene   ND   0.0654   0.00878 mg/Kg   11/08/12 15:28   11/10/12 20:28     1-Methylnaphthalene   ND   0.0654   0.00878 mg/Kg   11/08/12 15:28   11/10/12 20:28     1-Methylnaphthalene   ND   0.0654   0.00878 mg/Kg   11/08/12 15:28   11/10/12 20:28     1-Methylnaphthalene   ND   0.0654   0.00878 mg/Kg   11/08/12 15:28   11/10/12 20:28     1-Methylnaphthalene   ND   0.0654   0.00878 mg/Kg   11/08/12 15:28   11/10/12 20:28     1-Methylnaphthalene   ND   0.0654   0.00878 mg/Kg   11/08/12 15:28   11/10/12 20:28     1-Methylnaphthalene   ND   0.0654   0.00878 mg/Kg   11/08/12 15:28   11/10/12 20:28     1-Methylnaphthalene   ND   0.0654   0.00878 mg/Kg   11/08/12 15:28   11/10/12 20:28     1-Methylnaphthalene   ND   0.0654   0.00878 mg/Kg   11/08/12 15:28   11/10/12 20:28     1-Methylnaphthalene   ND   0.0654   0.00878 mg/Kg   11/08/12 15:28   11/10/12 20:28     1-Methylnaphthalene   ND   0.0654   0.0156 mg/Kg   11/08/12 15:28   11/10/12 20:28     1-Methylnaphthalene   ND   0.0654   0.0156 mg/Kg   11/08/12 15:28   11/10/12 20:28     1-Methylnaphthalene   ND   0.0654   0.0156 mg/Kg   11/08/12 15:28   11/10/12 20:28     1-Methylnaphthalene   ND   0.0654   0.0156 mg/Kg   11/08/12 15:28   11/10/12 20:28     1-Methylnaphthalene   ND   0.0654   0.0156 mg/Kg   11/08/12 15:28   11/10/12 20:28     1-Methylnaphthalene   ND   0.0654   0.0156 mg/Kg   11/08/12 15:28   11/10/12 20:28     1-Methylnaphthalene   ND   0.0654   0.0156 mg/Kg   11/08/12 15:28   11/10/12 20:28     1-Methylnaphthalene   ND   0.0654   0.0156 mg/Kg   11/08/12 15:28   11/10/12 20:28     1-Methylnaphthalene   ND   0.06		11/10/12 20:28	11/08/12 15:28	\$	mg/Kg	0.0117	0.0654		ND	Benzo[b]fluoranthene
1-Methylnaphthalene		11/10/12 20:28	11/08/12 15:28	0	mg/Kg	0.00878	0.0654		ND	Benzo[g,h,i]perylene
Pyrene ND 0.0654 0.0117 mg/kg 11/08/12 15:28 11/10/12 20:28 Phenanthrene ND 0.0654 0.00878 mg/kg 11/08/12 15:28 11/10/12 20:28 Chrysene ND 0.0654 0.00878 mg/kg 11/08/12 15:28 11/10/12 20:28 Dibenz(a,h)anthracene ND 0.0654 0.00883 mg/kg 11/08/12 15:28 11/10/12 20:28 Fluoranthene ND 0.0654 0.00878 mg/kg 11/08/12 15:28 11/10/12 20:28 Fluorenthene ND 0.0654 0.00878 mg/kg 11/08/12 15:28 11/10/12 20:28 Fluorene ND 0.0654 0.0117 mg/kg 11/08/12 15:28 11/10/12 20:28 Indeno[1,2,3-cd]pyrene ND 0.0654 0.00976 mg/kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.00976 mg/kg 11/08/12 15:28 11/10/12 20:28 Phethylnaphthalene ND 0.0654 0.0156 mg/kg 11/08/12 15:28 11/10/12 20:28 Prepared Recovery Qualifier Limits Prepared Analyzed Prepared Analyzed Prepared Analyzed 11/08/12 15:28 11/10/12 20:28 Prepared Surrogate 29 - 120 11/08/12 15:28 11/10/12 20:28 Prepared Analyzed 11/08/12 15:28 11/10/12 20:28	- 1	11/10/12 20:28	11/08/12 15:28	*	mg/Kg	0.0137	0.0654		ND	Benzo[k]fluoranthene
Phenanthrene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Chrysene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Dibenz(a,h)anthracene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Fluoranthene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Fluorene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Fluorene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Indeno[1,2,3-cd]pyrene ND 0.0654 0.00976 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.00976 mg/Kg 11/08/12 15:28 11/10/12 20:28 Perpared ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Perpared ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Perpared Analyzed Prepared Analyzed Prepared Analyzed 11/08/12 15:28 11/10/12 20:28 Prepared Analyzed 11/08/12 15:28 11/10/12 20:28 Nitrobenzene-d5 (Surr) 64 27 - 120 11/08/12 15:28 11/10/12 20:28  General Chemistry		11/10/12 20:28	11/08/12 15:28	*	mg/Kg	0.0137	0.0654		ND	1-Methylnaphthalene
Chrysene	1	11/10/12 20:28	11/08/12 15:28	*	mg/Kg	0.0117	0.0654		ND	Pyrene
Dibenz(a,h)anthracene		11/10/12 20:28	11/08/12 15:28	*	mg/Kg	0.00878	0.0654		ND	Phenanthrene
Fluoranthene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Fluorene ND 0.0654 0.0117 mg/Kg 11/08/12 15:28 11/10/12 20:28 Indeno[1,2,3-cd]pyrene ND 0.0654 0.00976 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0		11/10/12 20:28	11/08/12 15:28	335	mg/Kg	0.00878	0.0654		ND	Chrysene
Fluorene ND 0.0654 0.0117 mg/Kg 11/08/12 15:28 11/10/12 20:28 Indeno[1,2,3-cd]pyrene ND 0.0654 0.00976 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.00878 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28 Naphthalene ND 0.065	1	11/10/12 20:28	11/08/12 15:28	*	mg/Kg	0.00683	0.0654		ND	Dibenz(a,h)anthracene
ND   0.0654   0.00976   mg/Kg   11/08/12 15:28   11/10/12 20:28     Naphthalene   ND   0.0654   0.00878   mg/Kg   11/08/12 15:28   11/10/12 20:28     Naphthalene   ND   0.0654   0.0156   mg/Kg   11/08/12 15:28   11/10/12 20:28     ND   0.0654   0.00878   mg/Kg   11/08/12 15:28   11/10/12 20:28     ND   0.0654   0.0156   mg/Kg   11/08/12 15:28   11/10/12 20:28     ND   0.0654   0.00878   mg/Kg   11/08/12 15:28   11/10/12 20:28     ND   0.0654   0.00878   mg/Kg   11/08/12 15:28   11/10/12 20:28     ND   0.0654   0.0156   mg/Kg   11/08/12 15:28   11/10/12 20:28     N	1.9	11/10/12 20:28	11/08/12 15:28	0	mg/Kg	0.00878	0.0654		ND	Fluoranthene
Naphthalene         ND         0.0654         0.0878 mg/Kg         □ 11/08/12 15:28         11/10/12 20:28           2-Methylnaphthalene         ND         0.0654         0.0156 mg/Kg         □ 11/08/12 15:28         11/10/12 20:28           Surrogate         %Recovery         Qualifier         Limits         Prepared         Analyzed           2-Fluorobiphenyl (Surr)         52         29 - 120         11/08/12 15:28         11/10/12 20:28           Terphenyl-d14 (Surr)         88         13 - 120         11/08/12 15:28         11/10/12 20:28           Nitrobenzene-d5 (Surr)         64         27 - 120         11/08/12 15:28         11/10/12 20:28           General Chemistry		11/10/12 20:28	11/08/12 15:28	*	mg/Kg	0.0117	0.0654		ND	Fluorene
2-Methylnaphthalene ND 0.0654 0.0156 mg/Kg 11/08/12 15:28 11/10/12 20:28  Surrogate %Recovery Qualifier Limits Prepared Analyzed 2-Fluorobiphenyl (Surr) 52 29 - 120 11/08/12 15:28 11/10/12 20:28  Terphenyl-d14 (Surr) 88 13 - 120 11/08/12 15:28 11/10/12 20:28  Nitrobenzene-d5 (Surr) 64 27 - 120 11/08/12 15:28 11/10/12 20:28  General Chemistry		11/10/12 20:28	11/08/12 15:28	Ø	mg/Kg	0.00976	0.0654		ND	ndeno[1,2,3-cd]pyrene
Surrogate         %Recovery         Qualifier         Limits         Prepared         Analyzed           2-Fluorobiphenyl (Surr)         52         29 - 120         11/08/12 15:28         11/10/12 20:28           Terphenyl-d14 (Surr)         88         13 - 120         11/08/12 15:28         11/10/12 20:28           Nitrobenzene-d5 (Surr)         64         27 - 120         11/08/12 15:28         11/10/12 20:28           General Chemistry		11/10/12 20:28	11/08/12 15:28	*	mg/Kg	0.00878	0.0654		ND	Naphthalene
2-Fluorobiphenyl (Surr) 52 29 - 120 11/08/12 15:28 11/10/12 20:28 Terphenyl-d14 (Surr) 88 13 - 120 11/08/12 15:28 11/10/12 20:28 Nitrobenzene-d5 (Surr) 64 27 - 120 11/08/12 15:28 11/10/12 20:28 General Chemistry		11/10/12 20:28	11/08/12 15:28	**	mg/Kg	0.0156	0.0654		ND	2-Methylnaphthalene
Terphenyl-d14 (Surr) 88 13 - 120 11/08/12 15:28 11/10/12 20:28 Nitrobenzene-d5 (Surr) 64 27 - 120 11/08/12 15:28 11/10/12 20:28 General Chemistry	Dil Fa	Analyzed	Prepared				Limits	Qualifier	%Recovery	Surrogate
Nitrobenzene-d5 (Surr) 64 27 - 120 11/08/12 15:28 11/10/12 20:28  General Chemistry		11/10/12 20:28	11/08/12 15:28				29 - 120		52	2-Fluorobiphenyl (Surr)
Nitrobenzene-d5 (Surr) 64 27 - 120 11/08/12 15:28 11/10/12 20:28  General Chemistry		11/10/12 20:28	11/08/12 15:28				13 - 120		88	Terphenyl-d14 (Surr)
		11/10/12 20:28	11/08/12 15:28				27 - 120		64	
Analyte Result Qualifier RI RI Unit D Prepared Analyzed										General Chemistry
The the one of the Analyzed	Dil Fac	Analyzed	Prepared	D	Unit	RL	RL	Qualifier	Result	Analyte

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-10764-1

Client Sample ID: 1133 Iris-2

Date Collected: 10/30/12 15:15
Date Received: 11/06/12 08:10

Lab Sample ID: 490-10764-3

Matrix: Solid

Percent Solids: 83.0

Date Received: 11/06/12 08:10								Percent Soli	ds: 83.0
Method: 8260B - Volatile Organ	and the second second	(GC/MS) Qualifier	RL	MDI	Unit	D			D.1 F
Analyte Benzene	ND	Quantier	0.00182			Ö	Prepared 11/07/12 09:45	Analyzed	Dil Fac
	ND ND			0.000610		0		11/12/12 22:58	
Ethylbenzene			0.00182	0.000610	75.05	*	11/07/12 09:45	11/12/12 22:58	1
Naphthalene	ND		0.00455	0.00155		*	11/07/12 09:45	11/12/12 22:58	1
Toluene	ND		0.00182	0.000673			11/07/12 09:45	11/12/12 22:58	1
Xylenes, Total	ND		0.00455	0.000610	mg/Kg	*	11/07/12 09:45	11/12/12 22:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 130				11/07/12 09:45	11/12/12 22:58	1
4-Bromofluorobenzene (Surr)	103		70 - 130				11/07/12 09:45	11/12/12 22:58	1
Dibromofluoromethane (Surr)	105		70 - 130				11/07/12 09:45	11/12/12 22:58	1
Toluene-d8 (Surr)	98		70 - 130				11/07/12 09:45	11/12/12 22:58	1
Method: 8270D - Semivolatile (	Organic Compou	nds (GC/MS	3)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0654	0.00976	mg/Kg	₩	11/08/12 15:28	11/10/12 20:51	1
Acenaphthylene	ND		0.0654	0.00878	mg/Kg	*	11/08/12 15:28	11/10/12 20:51	1
Anthracene	ND		0.0654	0.00878	mg/Kg	*	11/08/12 15:28	11/10/12 20:51	1
Benzo[a]anthracene	ND		0.0654	0.0146	mg/Kg	*	11/08/12 15:28	11/10/12 20:51	1
Benzo[a]pyrene	ND		0.0654	0.0117	mg/Kg	**	11/08/12 15:28	11/10/12 20:51	1
Benzo[b]fluoranthene	ND		0.0654	0.0117	mg/Kg	**	11/08/12 15:28	11/10/12 20:51	1
Benzo[g,h,i]perylene	ND		0.0654	0.00878	mg/Kg	\$	11/08/12 15:28	11/10/12 20:51	1
Benzo[k]fluoranthene	ND		0.0654	0.0137	mg/Kg	**	11/08/12 15:28	11/10/12 20:51	1
1-Methylnaphthalene	ND		0.0654	0.0137	mg/Kg	0	11/08/12 15:28	11/10/12 20:51	1
Pyrene	ND		0.0654	0.0117	mg/Kg	**	11/08/12 15:28	11/10/12 20:51	1
Phenanthrene	ND		0.0654	0.00878	mg/Kg	•	11/08/12 15:28	11/10/12 20:51	1
Chrysene	ND		0.0654	0.00878	mg/Kg	**	11/08/12 15:28	11/10/12 20:51	1
Dibenz(a,h)anthracene	ND		0.0654	0.00683	mg/Kg	*	11/08/12 15:28	11/10/12 20:51	1
Fluoranthene	ND		0.0654	0.00878	mg/Kg	0	11/08/12 15:28	11/10/12 20:51	1
Fluorene	ND		0.0654	0.0117	mg/Kg	**	11/08/12 15:28	11/10/12 20:51	1
Indeno[1,2,3-cd]pyrene	ND		0.0654	0.00976	mg/Kg	ø	11/08/12 15:28	11/10/12 20:51	1
Naphthalene	ND		0.0654	0.00878	mg/Kg	**	11/08/12 15:28	11/10/12 20:51	1
2-Methylnaphthalene	ND		0.0654	0.0156	1000	*	11/08/12 15:28	11/10/12 20:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	51		29 - 120				11/08/12 15:28	11/10/12 20:51	1
Terphenyl-d14 (Surr)	65		13 - 120				11/08/12 15:28	11/10/12 20:51	1
Nitrobenzene-d5 (Surr)	52		27 - 120				11/08/12 15:28	11/10/12 20:51	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83		0.10	0.10	%			11/07/12 08:09	1

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-10764-1

Client Sample ID: 841 Azalea

Date Collected: 10/30/12 14:30 Date Received: 11/06/12 08:10 Lab Sample ID: 490-10764-4

Matrix: Solid

Percent Solids: 72.6

Date Received: 11/06/12 08:10								Percent Soli	ds: 72.6
Method: 8260B - Volatile Orga	nic Compounds	(GC/MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00304	0.00102	mg/Kg	0	11/07/12 09:45	11/12/12 23:29	1
Ethylbenzene	ND		0.00304	0.00102	mg/Kg	0	11/07/12 09:45	11/12/12 23:29	1
Naphthalene	ND		0.00760	0.00258	mg/Kg	**	11/07/12 09:45	11/12/12 23:29	1
Toluene	ND		0.00304	0.00112	mg/Kg	ø	11/07/12 09:45	11/12/12 23:29	1
Xylenes, Total	ND		0.00760	0.00102	mg/Kg	0	11/07/12 09:45	11/12/12 23:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 130				11/07/12 09:45	11/12/12 23:29	1
4-Bromofluorobenzene (Surr)	101		70 - 130				11/07/12 09:45	11/12/12 23:29	1
Dibromofluoromethane (Surr)	104		70 - 130				11/07/12 09:45	11/12/12 23:29	1
Toluene-d8 (Surr)	95		70 - 130				11/07/12 09:45	11/12/12 23:29	1
Method: 8270D - Semivolatile	Organic Compou	inds (GC/MS	S)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0656	0.00979	mg/Kg		11/08/12 15:28	11/10/12 21:15	1
Acenaphthylene	ND		0.0656	0.00881	mg/Kg	0	11/08/12 15:28	11/10/12 21:15	1
Anthracene	ND		0.0656	0.00881	mg/Kg	0	11/08/12 15:28	11/10/12 21:15	1
Benzo[a]anthracene	ND		0.0656	0.0147	mg/Kg		11/08/12 15:28	11/10/12 21:15	1
Benzo[a]pyrene	ND		0.0656	0.0117	mg/Kg	**	11/08/12 15:28	11/10/12 21:15	1
Benzo[b]fluoranthene	ND		0.0656	0.0117	mg/Kg	0	11/08/12 15:28	11/10/12 21:15	1
Benzo[g,h,i]perylene	ND		0.0656	0.00881	mg/Kg	0	11/08/12 15:28	11/10/12 21:15	1
Benzo[k]fluoranthene	ND		0.0656	0.0137	mg/Kg	-	11/08/12 15:28	11/10/12 21:15	1
1-Methylnaphthalene	ND		0.0656	0.0137	mg/Kg	0	11/08/12 15:28	11/10/12 21:15	1
Pyrene	ND		0.0656	0.0117	mg/Kg	•	11/08/12 15:28	11/10/12 21:15	1
Phenanthrene	ND		0.0656	0.00881	mg/Kg	0	11/08/12 15:28	11/10/12 21:15	1
Chrysene	ND		0.0656	0.00881	mg/Kg	43	11/08/12 15:28	11/10/12 21:15	1
Dibenz(a,h)anthracene	ND		0.0656	0.00685	mg/Kg	0	11/08/12 15:28	11/10/12 21:15	1
Fluoranthene	ND		0.0656	0.00881	mg/Kg		11/08/12 15:28	11/10/12 21:15	1
Fluorene	ND		0.0656	0.0117	mg/Kg	0	11/08/12 15:28	11/10/12 21:15	1
Indeno[1,2,3-cd]pyrene	ND		0.0656	0.00979	mg/Kg	**	11/08/12 15:28	11/10/12 21:15	1
Naphthalene	ND		0.0656	0.00881	mg/Kg	ø	11/08/12 15:28	11/10/12 21:15	1
2-Methylnaphthalene	ND		0.0656	0.0157	mg/Kg	٥	11/08/12 15:28	11/10/12 21:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	43		29 - 120				11/08/12 15:28	11/10/12 21:15	1
Terphenyl-d14 (Surr)	62		13 - 120				11/08/12 15:28	11/10/12 21:15	1
Nitrobenzene-d5 (Surr)	45		27 - 120				11/08/12 15:28	11/10/12 21:15	1
General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	73		0.10	0.10	%			11/07/12 08:09	1

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

TestAmerica Job ID: 490-10764-1

Client Sample ID: 1004 Bobwhite

Date Collected: 10/31/12 15:30 Date Received: 11/06/12 08:10

**Percent Solids** 

Lab Sample ID: 490-10764-5

Matrix: Solid Percent Solids: 95.3

Pate Received. 11/00/12 00.10								reicent 3011	us. 55.5
Method: 8260B - Volatile Orga	anic Compounds	(GC/MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00220	0.000736	mg/Kg	**	11/07/12 09:45	11/13/12 00:00	
Ethylbenzene	ND		0.00220	0.000736	mg/Kg	**	11/07/12 09:45	11/13/12 00:00	
Naphthalene	ND		0.00549	0.00187	mg/Kg	₩	11/07/12 09:45	11/13/12 00:00	7
Toluene	ND		0.00220	0.000813	mg/Kg	0	11/07/12 09:45	11/13/12 00:00	1
Xylenes, Total	ND		0.00549	0.000736	mg/Kg	0	11/07/12 09:45	11/13/12 00:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 130				11/07/12 09:45	11/13/12 00:00	1
4-Bromofluorobenzene (Surr)	111		70 - 130				11/07/12 09:45	11/13/12 00:00	
Dibromofluoromethane (Surr)	106		70 - 130				11/07/12 09:45	11/13/12 00:00	1
Toluene-d8 (Surr)	96		70 - 130				11/07/12 09:45	11/13/12 00:00	
Method: 8270D - Semivolatile	Organic Compou	inds (GC/MS	3)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0660	0.00985	mg/Kg	**	11/08/12 15:28	11/10/12 21:39	1
Acenaphthylene	ND		0.0660	0.00887	mg/Kg	*	11/08/12 15:28	11/10/12 21:39	4
Anthracene	0.0527	J	0.0660	0.00887	mg/Kg	0	11/08/12 15:28	11/10/12 21:39	
Benzo[a]anthracene	0.849		0.0660	0.0148	mg/Kg	**	11/08/12 15:28	11/10/12 21:39	
Benzo[a]pyrene	0.485		0.0660	0.0118	mg/Kg	⇔	11/08/12 15:28	11/10/12 21:39	-
Benzo[b]fluoranthene	0.895		0.0660	0.0118	mg/Kg	**	11/08/12 15:28	11/10/12 21:39	
Benzo[g,h,i]perylene	0.169		0.0660	0.00887	mg/Kg	*	11/08/12 15:28	11/10/12 21:39	1
Benzo[k]fluoranthene	0.314		0.0660	0.0138	mg/Kg	**	11/08/12 15:28	11/10/12 21:39	1
1-Methylnaphthalene	ND		0.0660	0.0138	mg/Kg	425	11/08/12 15:28	11/10/12 21:39	1
Pyrene	1.57		0.0660	0.0118	mg/Kg	*	11/08/12 15:28	11/10/12 21:39	
Phenanthrene	0.267		0.0660	0.00887	mg/Kg	*	11/08/12 15:28	11/10/12 21:39	1
Chrysene	0.930		0.0660	0.00887	mg/Kg	*	11/08/12 15:28	11/10/12 21:39	1
Dibenz(a,h)anthracene	0.0717		0.0660	0.00690	mg/Kg	*	11/08/12 15:28	11/10/12 21:39	1
Fluoranthene	1.64		0.0660	0.00887	mg/Kg	0	11/08/12 15:28	11/10/12 21:39	1
Fluorene	ND		0.0660	0.0118	mg/Kg	**	11/08/12 15:28	11/10/12 21:39	1
Indeno[1,2,3-cd]pyrene	0.178		0.0660	0.00985	mg/Kg	0	11/08/12 15:28	11/10/12 21:39	1
Naphthalene	ND		0.0660	0.00887	mg/Kg	0	11/08/12 15:28	11/10/12 21:39	1
2-Methylnaphthalene	ND		0.0660	0.0158	mg/Kg	0	11/08/12 15:28	11/10/12 21:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	65		29 - 120				11/08/12 15:28	11/10/12 21:39	1
Terphenyl-d14 (Surr)	85		13 - 120				11/08/12 15:28	11/10/12 21:39	1
Nitrobenzene-d5 (Surr)	65		27 - 120				11/08/12 15:28	11/10/12 21:39	1
General Chemistry		25.00	250		4.0			20.000	
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac

11/07/12 08:09

0.10

95

0.10 %

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-10764-1

Client Sample ID: 471 Dogwood-2

Date Collected: 10/31/12 14:35 Date Received: 11/06/12 08:10

**Percent Solids** 

Lab Sample ID: 490-10764-6

Matrix: Solid Percent Solids: 68.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00620		0.00248	0.000830	mg/Kg	**	11/07/12 09:45	11/13/12 00:31	
Ethylbenzene	0.244		0.00248	0.000830	mg/Kg	0	11/07/12 09:45	11/13/12 00:31	
Naphthalene	3.92		0.412	0.140	mg/Kg	-00	11/07/12 09:43	11/13/12 10:31	
Toluene	ND		0.00248	0.000917	mg/Kg	₩.	11/07/12 09:45	11/13/12 00:31	
Xylenes, Total	0.101		0.00619	0.000830	mg/Kg	*	11/07/12 09:45	11/13/12 00:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	96		70 - 130				11/07/12 09:45	11/13/12 00:31	
1,2-Dichloroethane-d4 (Surr)	85		70 - 130				11/07/12 09:43	11/13/12 10:31	
4-Bromofluorobenzene (Surr)	83		70 - 130				11/07/12 09:45	11/13/12 00:31	
4-Bromofluorobenzene (Surr)	92		70 - 130				11/07/12 09:43	11/13/12 10:31	- 9
Dibromofluoromethane (Surr)	100		70 - 130				11/07/12 09:45	11/13/12 00:31	
Dibromofluoromethane (Surr)	90		70 - 130				11/07/12 09:43	11/13/12 10:31	13
Toluene-d8 (Surr)	116		70 - 130				11/07/12 09:45	11/13/12 00:31	18
Toluene-d8 (Surr)	100		70 - 130				11/07/12 09:43	11/13/12 10:31	
Method: 8270D - Semivolatile	Organic Compou	nds (GC/MS	5)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0989		0.0663	0.00990	mg/Kg	₩.	11/08/12 15:28	11/10/12 22:02	
Acenaphthylene	ND		0.0663	0.00891	mg/Kg	*	11/08/12 15:28	11/10/12 22:02	-
Anthracene	0.0504	J	0.0663	0.00891	mg/Kg	*	11/08/12 15:28	11/10/12 22:02	
Benzo[a]anthracene	ND		0.0663	0.0148	mg/Kg	*	11/08/12 15:28	11/10/12 22:02	- 1
Benzo[a]pyrene	ND		0.0663	0.0119	mg/Kg	0	11/08/12 15:28	11/10/12 22:02	
Benzo[b]fluoranthene	ND		0.0663	0.0119	mg/Kg	0	11/08/12 15:28	11/10/12 22:02	
Benzo[g,h,i]perylene	ND		0.0663	0.00891	mg/Kg	0	11/08/12 15:28	11/10/12 22:02	
Benzo[k]fluoranthene	ND		0.0663	0.0139	mg/Kg		11/08/12 15:28	11/10/12 22:02	
1-Methylnaphthalene	1.34		0.0663	0.0139	mg/Kg		11/08/12 15:28	11/10/12 22:02	
Pyrene	ND		0.0663	0.0119	mg/Kg	*	11/08/12 15:28	11/10/12 22:02	
Phenanthrene	0.418		0.0663	0.00891	mg/Kg	-02	11/08/12 15:28	11/10/12 22:02	
Chrysene	ND		0.0663	0.00891	mg/Kg	•	11/08/12 15:28	11/10/12 22:02	
Dibenz(a,h)anthracene	ND		0.0663	0.00693	mg/Kg	0	11/08/12 15:28	11/10/12 22:02	1
Fluoranthene	ND		0.0663	0.00891	mg/Kg	**	11/08/12 15:28	11/10/12 22:02	1
Fluorene	0.213		0.0663	0.0119		*	11/08/12 15:28	11/10/12 22:02	1
Indeno[1,2,3-cd]pyrene	ND		0.0663	0.00990	mg/Kg	•	11/08/12 15:28	11/10/12 22:02	
Naphthalene	0.368		0.0663	0.00891	mg/Kg	0	11/08/12 15:28	11/10/12 22:02	1
2-Methylnaphthalene	2.19		0.0663	0.0158	1000557	益	11/08/12 15:28	11/10/12 22:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	36		29 - 120				11/08/12 15:28	11/10/12 22:02	1
Terphenyl-d14 (Surr)	48		13 - 120				11/08/12 15:28	11/10/12 22:02	1
Nitrobenzene-d5 (Surr)	38		27 - 120				11/08/12 15:28	11/10/12 22:02	1
General Chemistry									

11/07/12 08:09

0.10

0.10 %

69

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-10764-1

Client Sample ID: 471 Dogwood-3

Date Collected: 11/01/12 15:35 Date Received: 11/06/12 08:10 Lab Sample ID: 490-10764-7

Matrix: Solid Percent Solids: 81.4

Method: 8260B - Volatile Organic Compounds (GC/MS)   Ril.   Moll.   Unit.   Unit   Unit/12 09.45   11/13/12 01.02	ate Received: 11/06/12 08:10								Percent Soli	ds: 81.4
Benzane	The second secon			PI	MDI	Unit		Proposed	Analyzed	Dil Fa
Ethylbonzene			Qualifier							Dirac
Naphthalene										
Toluene ND 0.00189 0.00068 mg/kg 0 11/07/12 09.45 11/13/12 01.02 Xylenes, Total 0.192 0.00471 0.000632 mg/kg 0 11/07/12 09.45 11/13/12 01.02 Xylenes, Total 0.192 0.00471 0.000632 mg/kg 0 11/07/12 09.45 11/13/12 01.02 Xylenes, Total 0.192 0.00471 0.000632 mg/kg 0 11/07/12 09.45 11/13/12 01.02 Xirrogate 70.130 0.00632 mg/kg 0 11/07/12 09.45 11/13/12 01.02 Xirrogate 8.00471 0.00471 0.00632 mg/kg 0 11/07/12 09.45 11/13/12 01.02 Xirrogate 8.00471 0.00471										
Surrogate   1/10/12 09.45						-				
Surrogate   %Recovery   Qualifier   Limits   Prepared   Analyzed   1,2-Dichioroethane-44 (Surr)   85   70 - 130   11,07/12 09-45   11/13/12 01-02   12,2-Dichioroethane-44 (Surr)   87   70 - 130   11,07/12 09-45   11/13/12 01-02   11/10/12 09-45   11/10/12 09-										
12.Dichloroethane-d4 (Surr) 85 70 - 130 11/07/12 0945 11/13/12 01:02 12.Dichloroethane-d4 (Surr) 83 70 - 130 11/07/12 0945 11/13/12 01:02 11/13/12 01:02 11/07/12 0945 11/13/12 01:02 11/07/12 0945 11/07/12 0945 11/13/12 01:02 11/07/12 0945 11/13/12 01:02 11/07/12 0945 11/13/12 01:02 11/07/12 0945 11/13/12 01:02 11/07/12 0945 11/07/12	Ayleries, Total	0.192		0.00471	0.000032	mg/kg		11/07/12 09.43	11/13/12 01.02	
1,2-Dichloroethane-d4 (Surr)	Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr) 417 X 70 - 130 11/07/12 09.45 11/13/12 01.02 4-Bromofluorobenzene (Surr) 97 70 - 130 11/07/12 09.43 11/07/12 09.4	1,2-Dichloroethane-d4 (Surr)	85		70 - 130				11/07/12 09:45	11/13/12 01:02	
### Abromofiluorobenzene (Surr)	1,2-Dichloroethane-d4 (Surr)	83		70 - 130				11/07/12 09:43	11/13/12 11:02	-
11/07/12 09.45   11/13/12 01.02   11/1	4-Bromofluorobenzene (Surr)	417	X	70 - 130				11/07/12 09:45	11/13/12 01:02	
11/07/12 09-43   11/13/12 11:02   11/1	4-Bromofluorobenzene (Surr)	97		70 - 130				11/07/12 09:43	11/13/12 11:02	
Toluene-d8 (Surr)	Dibromofluoromethane (Surr)	93		70 - 130				11/07/12 09:45	11/13/12 01:02	-
Method: 8270D - Semivolatile Organic Compounds (GC/MS)   Analyte   Result Qualifier   RL   MDL Unit   D   Prepared   Analyzed   Acenaphthene   0.326   0.0665   0.00993   mg/Kg   0.11/08/12 15:28   11/10/12 22:26   Acenaphthylene   ND   0.0665   0.00893   mg/Kg   0.11/08/12 15:28   11/10/12 22:26   Acenaphthylene   0.578   0.0665   0.00893   mg/Kg   0.11/08/12 15:28   11/10/12 22:26   Benzo[a]anthracene   0.853   0.0665   0.0149   mg/Kg   0.11/08/12 15:28   11/10/12 22:26   Benzo[a]pyrene   0.314   0.0665   0.0119   mg/Kg   0.11/08/12 15:28   11/10/12 22:26   Benzo[a]pyrene   0.314   0.0665   0.0119   mg/Kg   0.11/08/12 15:28   11/10/12 22:26   Benzo[a]pyrene   0.0820   0.0665   0.00893   mg/Kg   0.11/08/12 15:28   11/10/12 22:26   Benzo[a]pyrene   0.0820   0.0665   0.00893   mg/Kg   0.11/08/12 15:28   11/10/12 22:26   Benzo[a]pyrene   0.212   0.0665   0.00893   mg/Kg   0.11/08/12 15:28   11/10/12 22:26   Benzo[a]pyrene   0.212   0.0665   0.0193   mg/Kg   0.11/08/12 15:28   11/10/12 22:26   Benzo[a]pyrene   0.212   0.0665   0.0139   mg/Kg   0.11/08/12 15:28   11/10/12 22:26   Denzo[a]pyrene   0.0817   0.0665   0.0139   mg/Kg   0.11/08/12 15:28   11/10/12 22:26   Denzo[a]pyrene   0.0817   0.0665   0.00893   mg/Kg   0.11/08/12 15:28   11/10/12 22:26   Denzo[a]pyrene   0.0817   0.0665   0.00893   mg/Kg   0.11/08/12 15:28   11/10/12 22:26   Denzo[a]pyrene   0.0817   0.0665   0.00893   mg/Kg   0.11/08/12 15:28   11/10/12 22:26   Denzo[a]pyrene   0.0817   0.0665   0.00893   mg/Kg   0.11/08/12 15:28   11/10/12 22:26   Denzo[a]pyrene   0.0817   0.0665   0.00893   mg/Kg   0.11/08/12 15:28   11/10/12 22:26   Denzo[a]pyrene   0.0817   0.0665   0.00893   mg/Kg   0.11/08/12 15:28   11/10/12 22:26   Denzo[a]pyrene   0.0817   0.0665   0.00893   mg/Kg   0.11/08/12 15:28   11/10/12 22:26   Denzo[a]pyrene   0.0817   0.0665   0.00893   mg/Kg   0.11/08/12 15:28   11/10/12 22:26   Denzo[a]pyrene   0.0817   0.0665   0.00893   mg/Kg   0.11/08/12 15:28   11/10/12 22:26   Denzo[a]pyrene   0.0817   0.0665   0.00893   mg/Kg   0.11/08/12	Dibromofluoromethane (Surr)	93		70 - 130				11/07/12 09:43	11/13/12 11:02	
Method: 8270D - Semivolatile Organic Compounds (GC/MS)         Result Qualifier         RL         MDL         Unit         D         Prepared         Analyzed           Acenaphthene         0.326         0.0665         0.00993         mg/Kg         0         11/08/12 15:28         11/10/12 22:26           Acenaphthylyene         ND         0.0665         0.00893         mg/Kg         0         11/08/12 15:28         11/10/12 22:26           Anthracene         0.578         0.0665         0.00893         mg/Kg         0         11/08/12 15:28         11/10/12 22:26           Benzo[a]phracene         0.314         0.0665         0.0149         mg/Kg         0         11/08/12 15:28         11/10/12 22:26           Benzo[b]fluoranthene         0.563         0.0665         0.0119         mg/Kg         0         11/08/12 15:28         11/10/12 22:26           Benzo[b]fluoranthene         0.0820         0.0665         0.0139         mg/Kg         0         11/08/12 15:28         11/10/12 22:26           Benzo[b]fluoranthene         0.212         0.0665         0.0139         mg/Kg         0         11/08/12 15:28         11/10/12 22:26           Benzo[b]fluoranthene         0.221         0.0665         0.0139         mg/Kg         0         1	Toluene-d8 (Surr)	139	X	70 - 130				11/07/12 09:45	11/13/12 01:02	
Analyte         Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed           Acenaphthene         0.326         0.0665         0.00993         mg/Kg         0         11/08/12 15:28         11/10/12 22:26           Acenaphthylene         ND         0.0665         0.00893         mg/Kg         0         11/08/12 15:28         11/10/12 22:26           Anthracene         0.578         0.0665         0.00893         mg/Kg         0         11/08/12 15:28         11/10/12 22:26           Benzo[a]pyrene         0.314         0.0665         0.0119         mg/Kg         0         11/08/12 15:28         11/10/12 22:26           Benzo[a,i]pyrene         0.053         0.0665         0.0119         mg/Kg         0         11/08/12 15:28         11/10/12 22:26           Benzo[k,i]pyrene         0.0820         0.0665         0.0119         mg/Kg         0         11/08/12 15:28         11/10/12 22:26           Benzo[k,i,i]pyrene         0.0820         0.0665         0.0199         mg/Kg         0         11/08/12 15:28         11/10/12 22:26           Benzo[k,i,i]pyrene         0.212         0.0665         0.0665         0.0119         mg/Kg         0         11/08/12 15:28	Toluene-d8 (Surr)	99		70 - 130				11/07/12 09:43	11/13/12 11:02	1
Analyte         Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed           Acenaphthene         0.326         0.0665         0.00993         mg/Kg         0         11/08/12 15:28         11/10/12 22:26           Acenaphthylene         ND         0.0665         0.00893         mg/Kg         0         11/08/12 15:28         11/10/12 22:26           Anthracene         0.578         0.0665         0.00893         mg/Kg         0         11/08/12 15:28         11/10/12 22:26           Benzo[a]pyrene         0.314         0.0665         0.0119         mg/Kg         0         11/08/12 15:28         11/10/12 22:26           Benzo[a,i]pyrene         0.053         0.0665         0.0119         mg/Kg         0         11/08/12 15:28         11/10/12 22:26           Benzo[k,i]pyrene         0.0820         0.0665         0.0119         mg/Kg         0         11/08/12 15:28         11/10/12 22:26           Benzo[k,i,i]pyrene         0.0820         0.0665         0.0199         mg/Kg         0         11/08/12 15:28         11/10/12 22:26           Benzo[k,i,i]pyrene         0.212         0.0665         0.0665         0.0119         mg/Kg         0         11/08/12 15:28	Method: 8270D - Semivolatile	Organic Compou	inds (GC/MS	S)						
Acenaphthylene ND 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 Anthracene 0.578 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 Benzo[a]anthracene 0.853 0.0665 0.0149 mg/Kg 11/08/12 15:28 11/10/12 22:26 Benzo[a]pyrene 0.314 0.0665 0.0119 mg/Kg 11/08/12 15:28 11/10/12 22:26 Benzo[b]hfluoranthene 0.563 0.0665 0.0119 mg/Kg 11/08/12 15:28 11/10/12 22:26 Benzo[g.h.i]perylene 0.0820 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 Benzo[k]fluoranthene 0.212 0.0665 0.0139 mg/Kg 11/08/12 15:28 11/10/12 22:26 In-Methylnaphthalene 0.248 0.0665 0.0139 mg/Kg 11/08/12 15:28 11/10/12 22:26 In-Methylnaphthalene 0.248 0.0665 0.0139 mg/Kg 11/08/12 15:28 11/10/12 22:26 In-Methylnaphthalene 0.254 0.0665 0.0139 mg/Kg 11/08/12 15:28 11/10/12 22:26 In-Methylnaphthalene 0.254 0.0665 0.0139 mg/Kg 11/08/12 15:28 11/10/12 22:26 In-Methylnaphthalene 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 In-Methylnaphthalene 0.0317 J 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 In-Methylnaphthalene 0.0817 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 In-Methylnaphthalene 0.0817 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 In-Methylnaphthalene 0.0817 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 In-Methylnaphthalene 0.0817 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 In-Methylnaphthalene 0.0817 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 In-Methylnaphthalene 0.0817 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 In-Methylnaphthalene 0.0817 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 In-Methylnaphthalene 0.0817 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 In-Methylnaphthalene 0.0817 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 In-Methylnaphthalene 0.0817 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 In-Methylnaphthalene 0.0817 0.0665 0.00893 mg/Kg 11/08/12 15:28 1		the transfer of the second second	A STATE OF THE STA		MDL	Unit	D	Prepared	Analyzed	Dil Fa
Anthracene 0.578 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 Benzo[a]anthracene 0.853 0.0665 0.0149 mg/Kg 11/08/12 15:28 11/10/12 22:26 Benzo[a]pyrene 0.314 0.0665 0.0119 mg/Kg 11/08/12 15:28 11/10/12 22:26 Benzo[b]fluoranthene 0.563 0.0665 0.0119 mg/Kg 11/08/12 15:28 11/10/12 22:26 Benzo[b]fluoranthene 0.0820 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 Benzo[k]fluoranthene 0.212 0.0665 0.0139 mg/Kg 11/08/12 15:28 11/10/12 22:26 Benzo[k]fluoranthene 0.212 0.0665 0.0139 mg/Kg 11/08/12 15:28 11/10/12 22:26 Indethylnaphthalene 2.68 0.0665 0.0139 mg/Kg 11/08/12 15:28 11/10/12 22:26 Pyrene 2.31 0.0665 0.0139 mg/Kg 11/08/12 15:28 11/10/12 22:26 Phenanthrene 3.92 0.332 0.0447 mg/Kg 11/08/12 15:28 11/10/12 22:26 Phenanthrene 0.665 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 Dibenz(a,h)anthracene 0.0317 J 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 Dibenz(a,h)anthracene 0.0839 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 Indeno[1,2,3-cd]pyrene 0.0897 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 Indeno[1,2,3-cd]pyrene 0.0817 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 Indeno[1,2,3-cd]pyrene 0.0817 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 Indeno[1,2,3-cd]pyrene 0.0817 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 Indeno[1,2,3-cd]pyrene 0.0817 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 Indeno[1,2,3-cd]pyrene 0.0817 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 Indeno[1,2,3-cd]pyrene 0.0817 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 Indeno[1,2,3-cd]pyrene 0.0817 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 Indeno[1,2,3-cd]pyrene 0.0817 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 Indeno[1,2,3-cd]pyrene 0.0817 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 Indeno[1,2,3-cd]pyrene 0.0817 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 Indeno[1,2,3-cd]pyrene 0.0817 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 Indeno[1,2,3-cd]pyrene 0.0817 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 Indeno[1,2,3-cd]pyrene 0.0817 0.0	Acenaphthene	0.326		0.0665	0.00993	mg/Kg	0	11/08/12 15:28	11/10/12 22:26	
Benzo[a]anthracene Benzo[a]pyrene 0.314 0.0665 0.0119 mg/kg 11/08/12 15:28 11/10/12 22:26 Benzo[b]fluoranthene 0.563 0.0665 0.0119 mg/kg 11/08/12 15:28 11/10/12 22:26 Benzo[b]fluoranthene 0.563 0.0665 0.0119 mg/kg 11/08/12 15:28 11/10/12 22:26 Benzo[k]fluoranthene 0.0820 0.0665 0.00893 mg/kg 11/08/12 15:28 11/10/12 22:26 11/08/12 15:2	Acenaphthylene	ND		0.0665	0.00893	mg/Kg	0	11/08/12 15:28	11/10/12 22:26	
Benzo[a]pyrene   0.314   0.0665   0.0119   mg/kg   0 11/08/12 15:28   11/10/12 22:26	Anthracene	0.578		0.0665	0.00893	mg/Kg	-03	11/08/12 15:28	11/10/12 22:26	
Benzo[b]fluoranthene   0.563   0.0665   0.0119   mg/Kg   0.11/08/12 15:28   11/10/12 22:26	Benzo[a]anthracene	0.853		0.0665	0.0149	mg/Kg	E)E	11/08/12 15:28	11/10/12 22:26	
Benzo[bjfluoranthene	Benzo[a]pyrene	0.314		0.0665	0.0119	mg/Kg	0	11/08/12 15:28	11/10/12 22:26	
Benzolg,h,i]perylene		0.563		0.0665	0.0119	mg/Kg	0	11/08/12 15:28	11/10/12 22:26	-
Benzo[k fluoranthene   0.212   0.0665   0.0139   mg/kg   2 11/08/12 15:28   11/10/12 22:26     1-Methylnaphthalene   2.68   0.0665   0.0139   mg/kg   0 11/08/12 15:28   11/10/12 22:26     1-Methylnaphthalene   2.68   0.0665   0.0139   mg/kg   0 11/08/12 15:28   11/10/12 22:26     1-Methylnaphthalene   2.31   0.0665   0.0119   mg/kg   0 11/08/12 15:28   11/10/12 22:26     1-Methylnaphthalene   3.92   0.332   0.0447   mg/kg   0 11/08/12 15:28   11/10/12 22:26     1-Methylnaphthalene   0.665   0.0665   0.00893   mg/kg   0 11/08/12 15:28   11/10/12 22:26     1-Methylnaphthalene   0.0317   J 0.0665   0.00893   mg/kg   0 11/08/12 15:28   11/10/12 22:26     1-Methylnaphthalene   3.13   0.0665   0.00893   mg/kg   0 11/08/12 15:28   11/10/12 22:26     1-Methylnaphthalene   0.689   0.0665   0.00993   mg/kg   0 11/08/12 15:28   11/10/12 22:26     1-Methylnaphthalene   1.06   0.0665   0.00993   mg/kg   0 11/08/12 15:28   11/10/12 22:26     1-Methylnaphthalene   5.27   0.332   0.0794   mg/kg   0 11/08/12 15:28   11/10/12 22:26     1-Methylnaphthalene   5.27   0.332   0.0794   mg/kg   0 11/08/12 15:28   11/10/12 22:26     1-Methylnaphthalene   5.27   0.332   0.0794   mg/kg   0 11/08/12 15:28   11/10/12 22:26     1-Methylnaphthalene   5.27   0.332   0.0794   mg/kg   0 11/08/12 15:28   11/10/12 22:26     1-Methylnaphthalene   5.27   0.332   0.0794   mg/kg   0 11/08/12 15:28   11/10/12 22:26     1-Methylnaphthalene   5.27   0.332   0.0794   mg/kg   0 11/08/12 15:28   11/10/12 22:26     1-Methylnaphthalene   5.27   0.332   0.0794   mg/kg   0 11/08/12 15:28   11/10/12 22:26     1-Methylnaphthalene   5.27   0.332   0.0794   mg/kg   0 11/08/12 15:28   11/10/12 22:26     1-Methylnaphthalene   5.27   0.332   0.0794   mg/kg   0 11/08/12 15:28   11/10/12 22:26     1-Methylnaphthalene   5.27   0.332   0.0794   mg/kg   0 11/08/12 15:28   11/10/12 22:26     1-Methylnaphthalene   5.27   0.332   0.0794   mg/kg   0 11/08/12 15:28   11/10/12 22:26     1-Methylnaphthalene   5.27   0.332   0.0794   mg/kg   0 1/08/12 15:28   11/10/12 22:26				0.0665	0.00893	mg/Kg	\$	11/08/12 15:28	11/10/12 22:26	
1.   1.   1.   1.   1.   1.   1.   1.							0			
Pyrene 2.31 0.0665 0.0119 mg/Kg 11/08/12 15:28 11/10/12 22:26 Phenanthrene 3.92 0.332 0.0447 mg/Kg 11/08/12 15:28 11/11/12 19:21 Chrysene 0.665 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 Dibenz(a,h)anthracene 0.0317 J 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 Fluoranthene 3.13 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 Fluorene 0.689 0.0665 0.0119 mg/Kg 11/08/12 15:28 11/10/12 22:26 Indeno[1,2,3-cd]pyrene 0.0817 0.0665 0.00993 mg/Kg 11/08/12 15:28 11/10/12 22:26 Naphthalene 1.06 0.0665 0.00993 mg/Kg 11/08/12 15:28 11/10/12 22:26 Naphthalene 1.06 0.0665 0.00893 mg/Kg 11/08/12 15:28 11/10/12 22:26 Naphthalene 5.27 0.332 0.0794 mg/Kg 11/08/12 15:28 11/10/12 22:26 Surrogate %Recovery Qualifier Limits Prepared Analyzed 2-Fluorobiphenyl (Surr) 58 13 - 120 11/08/12 15:28 11/10/12 22:26 Terphenyl-d14 (Surr) 58 13 - 120 11/08/12 15:28 11/10/12 22:26 General Chemistry Analyte Result Qualifier RL RL Unit D Prepared Analyzed							ø			
Phenanthrene   3.92   0.332   0.0447   mg/Kg   0 11/08/12 15:28   11/11/12 19:21							ø			
Chrysene							Ö			5
Dibenz(a,h)anthracene							-03			
Fluoranthene   3.13			i.							
Fluorene   0.689   0.0665   0.0119   mg/Kg   0.11/08/12 15:28   11/10/12 22:26     Indeno[1,2,3-cd]pyrene   0.0817   0.0665   0.00993   mg/Kg   0.11/08/12 15:28   11/10/12 22:26     Naphthalene   1.06   0.0665   0.00893   mg/Kg   0.11/08/12 15:28   11/10/12 22:26     2-Methylnaphthalene   5.27   0.332   0.0794   mg/Kg   0.11/08/12 15:28   11/10/12 22:26     Surrogate   %Recovery   Qualifier   Limits   Prepared   Analyzed     2-Fluorobiphenyl (Surr)   51   29 - 120   11/08/12 15:28   11/10/12 22:26     Terphenyl-d14 (Surr)   58   13 - 120   11/08/12 15:28   11/10/12 22:26     Nitrobenzene-d5 (Surr)   56   27 - 120   11/08/12 15:28   11/10/12 22:26     General Chemistry   General Chemistry   Result   Qualifier   RL   RL   Unit   D   Prepared   Analyzed   Analyzed     Analyzed   Result   Qualifier   RL   RL   Unit   D   Prepared   Analyzed     Analyzed   Result   Qualifier   RL   RL   Unit   D   Prepared   Analyzed     Analyzed   Result   Qualifier   RL   RL   Unit   D   Prepared   Analyzed     Analyzed   Result   Qualifier   RL   RL   Unit   D   Prepared   Analyzed     Analyzed   Result   Qualifier   RL   RL   Unit   D   Prepared   Analyzed     Analyzed   Result   Qualifier   RL   RL   Unit   D   Prepared   Analyzed     Analyzed   Result   Qualifier   RL   RL   Unit   D   Prepared   Analyzed     Analyzed   Result   Qualifier   RL   RL   Unit   D   Prepared   Analyzed     Analyzed   Result   Qualifier   RL   RL   Unit   D   Prepared   Analyzed     Analyzed   Result   Qualifier   RL   RL   Unit   D   Prepared   Analyzed     Analyzed   Result   Qualifier   RL   RL   Unit   D   Prepared   Analyzed     Analyzed   Result   Qualifier   RL   RL   Unit   D   Prepared   Analyzed     Analyzed   Result   Qualifier   RL   RL   Unit   D   Prepared   Analyzed     Analyzed   Result   Qualifier   RL   RL   Unit   D   Prepared   Analyzed     Analyzed   Result   Qualifier   RL   RL   Unit   D   Prepared   Analyzed     Analyzed   Result   Qualifier   RL   RL   Unit   D   Prepared   Analyzed     Analyzed   Result   Qualifier   RL	The state of the s		3			2005				
Naphthalene						1000				
Naphthalene   1.06   0.0665   0.00893   mg/Kg   0.11/08/12 15:28   11/10/12 22:26						11/2/12				
2-Methylnaphthalene 5.27 0.332 0.0794 mg/Kg 11/08/12 15:28 11/11/12 19:21  Surrogate %Recovery Qualifier Limits Prepared Analyzed 2-Fluorobiphenyl (Surr) 51 29 - 120 11/08/12 15:28 11/10/12 22:26  Terphenyl-d14 (Surr) 58 13 - 120 11/08/12 15:28 11/10/12 22:26  Nitrobenzene-d5 (Surr) 56 27 - 120 11/08/12 15:28 11/10/12 22:26  General Chemistry  Analyte Result Qualifier RL RL Unit D Prepared Analyzed										
Surrogate         %Recovery         Qualifier         Limits         Prepared         Analyzed           2-Fluorobiphenyl (Surr)         51         29 - 120         11/08/12 15:28         11/10/12 22:26           Terphenyl-d14 (Surr)         58         13 - 120         11/08/12 15:28         11/10/12 22:26           Nitrobenzene-d5 (Surr)         56         27 - 120         11/08/12 15:28         11/10/12 22:26           General Chemistry           Analyte         Result Qualifier         RL RL Unit         D Prepared         Analyzed										1
2-Fluorobiphenyl (Surr) 51 29 - 120 11/08/12 15:28 11/10/12 22:26 Terphenyl-d14 (Surr) 58 13 - 120 11/08/12 15:28 11/10/12 22:26 Nitrobenzene-d5 (Surr) 56 27 - 120 11/08/12 15:28 11/10/12 22:26  General Chemistry Analyte Result Qualifier RL RL Unit D Prepared Analyzed	2-Methylnaphthalene	5.27		0.332	0.0794	mg/Kg	W.	11/08/12 15:28	11/11/12 19:21	5
Terphenyl-d14 (Surr)         58         13 - 120         11/08/12 15:28         11/10/12 22:26           Nitrobenzene-d5 (Surr)         56         27 - 120         11/08/12 15:28         11/10/12 22:26           General Chemistry           Analyte         Result Qualifier         RL         RL Unit         D         Prepared         Analyzed	7 S. 11 S		Qualifier							Dil Fac
Nitrobenzene-d5 (Surr)         56         27 - 120         11/08/12 15:28         11/10/12 22:26           General Chemistry           Analyte         Result Qualifier         RL         RL Unit         D         Prepared         Analyzed										1
General Chemistry Analyte Result Qualifier RL RL Unit D Prepared Analyzed										1
Analyte Result Qualifier RL RL Unit D Prepared Analyzed	Nitrobenzene-d5 (Surr)	56		27 - 120				11/08/12 15:28	11/10/12 22:26	1
		34.1	Zanania i	.56			7	- Lynna -	2002	2.7
Percent Solids 81 0.10 0.10 % 11/07/12 08:09			Qualifier				D	Prepared	The second second second	Dil Fac
	Percent Solids	81		0.10	0.10	%			11/07/12 08:09	1

## **QC Sample Results**

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-10764-1

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

Lab Sample ID: MB 490-35106/6

Matrix: Solid

Analyte

Benzene

Toluene

Ethylbenzene

Naphthalene

Xylenes, Total

Analysis Batch: 35106

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

11/10/12 06:19

МВ	MB								
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
ND		0.00200	0.000670	mg/Kg			11/10/12 06:19	1	
ND		0.00200	0.000670	mg/Kg			11/10/12 06:19	1	i i
0.002381	J	0.00500	0.00170	mg/Kg			11/10/12 06:19	1	Ш
ND		0.00200	0.000740	mg/Kg			11/10/12 06:19	1	ī

0.000670 mg/Kg

MB MB

ND

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92	70 - 130		11/10/12 06:19	1
4-Bromofluorobenzene (Surr)	102	70 - 130		11/10/12 06:19	1
Dibromofluoromethane (Surr)	98	70 - 130		11/10/12 06:19	1
Toluene-d8 (Surr)	102	70 - 130		11/10/12 06:19	1

0.00500

Lab Sample ID: LCS 490-35106/3

Matrix: Solid

Analysis Batch: 35106

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.0500	0.05235		mg/Kg		105	75 - 127
Ethylbenzene	0.0500	0.05241		mg/Kg		105	80 - 134
Naphthalene	0.0500	0.06327		mg/Kg		127	69 - 150
Toluene	0.0500	0.05315		mg/Kg		106	80 - 132
Xylenes, Total	0.150	0.1581		mg/Kg		105	80 - 137

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
4-Bromofluorobenzene (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Lab Sample ID: LCSD 490-35106/4

Matrix: Solid

Analysis Batch: 35106

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

and the state of t	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.0500	0.05037		mg/Kg		101	75 - 127	4	50
Ethylbenzene	0.0500	0.05124		mg/Kg		102	80 - 134	2	50
Naphthalene	0.0500	0.06276		mg/Kg		126	69 - 150	1	50
Toluene	0.0500	0.05057		mg/Kg		101	80 - 132	5	50
Xylenes, Total	0.150	0.1543		mg/Kg		103	80 - 137	2	50

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
Toluene-d8 (Surr)	97		70 - 130

TestAmerica Job ID: 490-10764-1

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

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

Lab Sample ID: MB 490-35535/7

Matrix: Solid

Analysis Batch: 35535

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.100	0.0335	mg/Kg			11/12/12 20:23	1
Ethylbenzene	ND		0.100	0.0335	mg/Kg			11/12/12 20:23	1
Naphthalene	ND		0.250	0.0850	mg/Kg			11/12/12 20:23	1
Toluene	ND		0.100	0.0370	mg/Kg			11/12/12 20:23	1
Xylenes, Total	ND		0.250	0.0335	mg/Kg			11/12/12 20:23	1

мв мв Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 92 70 - 130 11/12/12 20:23 101 70 - 130 11/12/12 20:23 4-Bromofluorobenzene (Surr) 96 70 - 130 11/12/12 20:23 Dibromofluoromethane (Surr) 98 70 - 130 11/12/12 20:23 Toluene-d8 (Surr)

Lab Sample ID: MB 490-35535/8

Matrix: Solid

Analysis Batch: 35535

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

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000670	mg/Kg			11/12/12 20:55	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			11/12/12 20:55	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			11/12/12 20:55	1
Toluene	ND		0.00200	0.000740	mg/Kg			11/12/12 20:55	1
Xylenes, Total	ND		0.00500	0.000670	mg/Kg			11/12/12 20:55	1

	MD	MID				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		11/12/12 20:55	1
4-Bromofluorobenzene (Surr)	98		70 - 130		11/12/12 20:55	1
Dibromofluoromethane (Surr)	102		70 - 130		11/12/12 20:55	1
Toluene-d8 (Surr)	96		70 - 130		11/12/12 20:55	1

Lab Sample ID: LCS 490-35535/3

Matrix: Solid

Analysis Batch: 35535

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

The second secon	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.0500	0.06017		mg/Kg		120	75 - 127
Ethylbenzene	0.0500	0.05003		mg/Kg		100	80 - 134
Naphthalene	0.0500	0.03985		mg/Kg		80	69 - 150
Toluene	0.0500	0.05590		mg/Kg		112	80 - 132
Xylenes, Total	0.150	0.1529		mg/Kg		102	80 - 137

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	90		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
Toluene-d8 (Surr)	97		70 - 130

TestAmerica Job ID: 490-10764-1

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

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

Lab Sample ID: LCSD 490-35535/4

Matrix: Solid

Analysis Batch: 35535

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

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.0500	0.06072		mg/Kg		121	75 - 127	1	50
Ethylbenzene	0.0500	0.04949		mg/Kg		99	80 - 134	1	50
Naphthalene	0.0500	0.04222		mg/Kg		84	69 - 150	6	50
Toluene	0.0500	0.05613		mg/Kg		112	80 - 132	0	50
Xylenes, Total	0.150	0.1508		mg/Kg		101	80 - 137	1	50

LCSD	LCSD	
%Recovery	Qualifier	Limits
92		70 - 130
91		70 - 130
98		70 - 130
98		70 - 130
	%Recovery 92 91 98	92 91 98

Lab Sample ID: MB 490-35544/6

Matrix: Solid

Analysis Batch: 35544

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

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.100	0.0340	mg/Kg			11/13/12 07:13	1
Ethylbenzene	ND		0.100	0.0340	mg/Kg			11/13/12 07:13	1
Naphthalene	ND		0.250	0.0850	mg/Kg			11/13/12 07:13	1
Toluene	ND		0.100	0.0370	mg/Kg			11/13/12 07:13	1
Xylenes, Total	ND		0.250	0.0340	mg/Kg			11/13/12 07:13	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		70 - 130		11/13/12 07:13	1
4-Bromofluorobenzene (Surr)	96		70 - 130		11/13/12 07:13	1
Dibromofluoromethane (Surr)	93		70 - 130		11/13/12 07:13	1
Toluene-d8 (Surr)	97		70 - 130		11/13/12 07:13	1

Lab Sample ID: LCS 490-35544/3

Matrix: Solid

Analysis Batch: 35544

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

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.0500	0.05688		mg/Kg		114	75 - 127
Ethylbenzene	0.0500	0.04677		mg/Kg		94	80 - 134
Naphthalene	0.0500	0.03844		mg/Kg		77	69 - 150
Toluene	0.0500	0.05200		mg/Kg		104	80 - 132
Xylenes, Total	0.150	0.1398		mg/Kg		93	80 - 137

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	88		70 - 130
4-Bromofluorobenzene (Surr)	91		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
Toluene-d8 (Surr)	94		70 - 130

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

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

Lab Sample ID: LCSD 490-35544/4

Matrix: Solid

Analysis Batch: 35544

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

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.0500	0.05689		mg/Kg		114	75 - 127	0	50
Ethylbenzene	0.0500	0.04714		mg/Kg		94	80 - 134	1	50
Naphthalene	0.0500	0.03882		mg/Kg		78	69 - 150	1	50
Toluene	0.0500	0.05240		mg/Kg		105	80 - 132	1	50
Xylenes, Total	0.150	0.1400		mg/Kg		93	80 - 137	0	50

LCSD LCSD Limits Surrogate %Recovery Qualifier 87 70 - 130 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) 91 70 - 130 Dibromofluoromethane (Surr) 97 70 - 130 Toluene-d8 (Surr) 96 70 - 130

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

Lab Sample ID: MB 490-34510/1-A

Matrix: Solid

Analysis Batch: 35149

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 34510

MB MB Qualifier RL MDL Unit Prepared Analyzed Dil Fac Analyte Result 11/08/12 11:46 11/10/12 17:43 ND 0.0670 0.0100 mg/Kg Acenaphthene 11/08/12 11:46 11/10/12 17:43 Acenaphthylene ND 0.0670 0.00900 mg/Kg mg/Kg ND 0.0670 0.00900 11/08/12 11:46 11/10/12 17:43 Anthracene Benzo[a]anthracene ND 0.0670 0.0150 mg/Kg 11/08/12 11:46 11/10/12 17:43 ND 0.0670 0.0120 mg/Kg 11/08/12 11:46 11/10/12 17:43 Benzo[a]pyrene 11/08/12 11:46 11/10/12 17:43 Benzo[b]fluoranthene ND 0.0670 0.0120 mg/Kg ND 0.0670 0.00900 mg/Kg 11/08/12 11:46 11/10/12 17:43 Benzo[g,h,i]perylene 11/10/12 17:43 0.0140 mg/Kg 11/08/12 11:46 1 Benzo[k]fluoranthene ND 0.0670 11/08/12 11:46 11/10/12 17:43 1-Methylnaphthalene ND 0.0670 0.0140 mg/Kg 11/10/12 17:43 ND 11/08/12 11:46 Pyrene 0.0670 0.0120 mg/Kg Phenanthrene ND 0.0670 0.00900 mg/Kg 11/08/12 11:46 11/10/12 17:43 1 ND 0.0670 0.00900 mg/Kg 11/08/12 11:46 11/10/12 17:43 Chrysene Dibenz(a,h)anthracene ND 0.0670 0.00700 mg/Kg 11/08/12 11:46 11/10/12 17:43 ND 0.00900 11/08/12 11:46 11/10/12 17:43 0.0670 mg/Kg Fluoranthene ND 0.0670 0.0120 mg/Kg 11/08/12 11:46 11/10/12 17:43 Fluorene ND 0.0670 0.0100 mg/Kg 11/08/12 11:46 11/10/12 17:43 Indeno[1,2,3-cd]pyrene

MR MR

ND

ND

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	82	29 - 120	11/08/12 11:46	11/10/12 17:43	1
Terphenyl-d14 (Surr)	90	13 - 120	11/08/12 11:46	11/10/12 17:43	1
Nitrobenzene-d5 (Surr)	82	27 - 120	11/08/12 11:46	11/10/12 17:43	1

0.0670

0.0670

0.00900 mg/Kg

0.0160 mg/Kg

ICS ICS

Lab Sample ID: LCS 490-34510/2-A

Matrix: Solid

Naphthalene

2-Methylnaphthalene

Analysis Batch: 35149

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

% Rac

11/10/12 17:43

11/10/12 17:43

11/08/12 11:46

11/08/12 11:46

Prep Batch: 34510

	Opike	200	LOO				701100.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	1.67	1.346		mg/Kg		81	38 - 120

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

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

Lab Sample ID: LCS 490-34510/2-A

Matrix: Solid

Analysis Batch: 35149

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

Prep Batch: 34510

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Anthracene	1.67	1.593		mg/Kg		96	46 - 124
Benzo[a]anthracene	1.67	1.608		mg/Kg		96	45 - 120
Benzo[a]pyrene	1.67	1.589		mg/Kg		95	45 - 120
Benzo[b]fluoranthene	1.67	1.483		mg/Kg		89	42 - 120
Benzo[g,h,i]perylene	1.67	1.371		mg/Kg		82	38 - 120
Benzo[k]fluoranthene	1.67	1.516		mg/Kg		91	42 - 120
1-Methylnaphthalene	1.67	1.317		mg/Kg		79	32 - 120
Pyrene	1.67	1.634		mg/Kg		98	43 - 120
Phenanthrene	1.67	1.523		mg/Kg		91	45 - 120
Chrysene	1.67	1.563		mg/Kg		94	43 - 120
Dibenz(a,h)anthracene	1.67	1.433		mg/Kg		86	32 - 128
Fluoranthene	1.67	1.722		mg/Kg		103	46 - 120
Fluorene	1.67	1.430		mg/Kg		86	42 - 120
Indeno[1,2,3-cd]pyrene	1.67	1.438		mg/Kg		86	41 - 121
Naphthalene	1.67	1.505		mg/Kg		90	32 - 120
2-Methylnaphthalene	1.67	1.410		mg/Kg		85	28 - 120

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	67	-	29 - 120
Terphenyl-d14 (Surr)	92		13 - 120
Nitrobenzene-d5 (Surr)	76		27 - 120

Lab Sample ID: 490-10215-D-6-B MS

Matrix: Solid

Analysis Batch: 35149

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 34510

%Rec. Sample Sample Spike MS MS Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits \* Acenaphthylene ND 1.66 1.225 mg/Kg 74 25 - 120 ò Anthracene ND 1.66 1.148 mg/Kg 69 28 - 125 0.0358 J 1.479 袋 87 23 - 120 Benzo[a]anthracene 1.66 mg/Kg 0 ND 1.66 1.350 mg/Kg 81 15 - 128 Benzo[a]pyrene 0.0390 J 80 1.66 1.357 12 - 133 Benzo[b]fluoranthene mg/Kg Benzo[g,h,i]perylene ND 1.66 1.294 mg/Kg 拉 78 22 - 120 0.0358 -03 82 28 - 120 Benzo[k]fluoranthene 1.66 1.398 mg/Kg Ö 1-Methylnaphthalene ND 1.66 1.028 mg/Kg 62 10 - 120 ø 88 Pyrene 0.0422 J 1.66 1.497 mg/Kg 20 - 123 ø ND 1.66 1.344 81 21 - 122 Phenanthrene mg/Kg 0.0375 J 1.66 2 85 20 - 120 Chrysene 1.448 mg/Kg 78 Dibenz(a,h)anthracene ND 1.66 1.292 mg/Kg 12 - 128 Fluoranthene 0.0415 J 1.66 1.457 37 85 10 - 143 mg/Kg \* ND 69 20 - 120 Fluorene 1.66 1.147 mg/Kg 0 Indeno[1,2,3-cd]pyrene ND 1.66 1.343 mg/Kg 81 22 - 121 办 ND 1.66 1.241 75 10 - 120 Naphthalene mg/Kg 2-Methylnaphthalene ND 1.66 1.214 mg/Kg 袋 73 13 - 120

MS	MS

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	61		29 - 120
Terphenyl-d14 (Surr)	82		13 - 120
Nitrobenzene-d5 (Surr)	70		27 - 120

TestAmerica Job ID: 490-10764-1

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

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

Lab Sample ID: 490-10215-D-6-C MSD

Matrix: Solid

Analysis Batch: 35149

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 34510

Allalysis balcii. 33143									Frep	Daten.	34310
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthylene	ND		1.65	1.300		mg/Kg	0	79	25 - 120	6	50
Anthracene	ND		1.65	1.188		mg/Kg	φ	72	28 - 125	3	49
Benzo[a]anthracene	0.0358	J	1.65	1.400		mg/Kg	0	83	23 - 120	5	50
Benzo[a]pyrene	ND		1.65	1.362		mg/Kg	0	82	15 - 128	1	50
Benzo[b]fluoranthene	0.0390	J	1.65	1.379		mg/Kg	0	81	12 - 133	2	50
Benzo[g,h,i]perylene	ND		1.65	1.308		mg/Kg	0	79	22 - 120	1	50
Benzo[k]fluoranthene	0.0358	J	1.65	1.332		mg/Kg	O	78	28 - 120	5	45
1-Methylnaphthalene	ND		1.65	1.208		mg/Kg	ø	73	10 - 120	16	50
Pyrene	0.0422	J	1.65	1.332		mg/Kg	٥	78	20 - 123	12	50
Phenanthrene	ND		1.65	1.302		mg/Kg	0	79	21 - 122	3	50
Chrysene	0.0375	J	1.65	1.411		mg/Kg	0	83	20 - 120	3	49
Dibenz(a,h)anthracene	ND		1.65	1.359		mg/Kg	0	82	12 - 128	5	50
Fluoranthene	0.0415	J	1.65	1.254		mg/Kg	0	73	10 - 143	15	50
Fluorene	ND		1.65	1.302		mg/Kg		79	20 - 120	13	50
Indeno[1,2,3-cd]pyrene	ND		1.65	1.345		mg/Kg	0	81	22 - 121	0	50
Naphthalene	ND		1.65	1.305		mg/Kg		79	10 - 120	5	50
2-Methylnaphthalene	ND		1.65	1.223		mg/Kg	0	74	13 - 120	1	50

MSD MSD

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Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	62		29 - 120
Terphenyl-d14 (Surr)	77		13 - 120
Nitrobenzene-d5 (Surr)	65		27 - 120

#### Method: Moisture - Percent Moisture

Lab Sample ID: 490-10764-1 DU

Matrix: Solid

Analysis Batch: 34082

Client	Sample	ID:	1102	Iris-2

Prep Type: Total/NA

	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Percent Solids	90		90		%		0.1	20

# **QC Association Summary**

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-10764-1

## GC/MS VOA

Prep Batch: 3412:	3
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-10764-6	471 Dogwood-2	Total/NA	Solid	5035	
490-10764-7	471 Dogwood-3	Total/NA	Solid	5035	

#### Prep Batch: 34128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-10764-1	1102 Iris-2	Total/NA	Solid	5035	
490-10764-2	1345 Cardinal	Total/NA	Solid	5035	
490-10764-3	1133 Iris-2	Total/NA	Solid	5035	
490-10764-4	841 Azalea	Total/NA	Solid	5035	
490-10764-5	1004 Bobwhite	Total/NA	Solid	5035	
490-10764-6	471 Dogwood-2	Total/NA	Solid	5035	
490-10764-7	471 Dogwood-3	Total/NA	Solid	5035	

#### Analysis Batch: 35106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-10764-1	1102 Iris-2	Total/NA	Solid	8260B	34128
LCS 490-35106/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-35106/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-35106/6	Method Blank	Total/NA	Solid	8260B	

#### Analysis Batch: 35535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-10764-2	1345 Cardinal	Total/NA	Solid	8260B	34128
490-10764-3	1133 Iris-2	Total/NA	Solid	8260B	34128
490-10764-4	841 Azalea	Total/NA	Solid	8260B	34128
490-10764-5	1004 Bobwhite	Total/NA	Solid	8260B	34128
490-10764-6	471 Dogwood-2	Total/NA	Solid	8260B	34128
490-10764-7	471 Dogwood-3	Total/NA	Solid	8260B	34128
LCS 490-35535/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-35535/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-35535/7	Method Blank	Total/NA	Solid	8260B	
MB 490-35535/8	Method Blank	Total/NA	Solid	8260B	

#### Analysis Batch: 35544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-10764-6	471 Dogwood-2	Total/NA	Solid	8260B	34123
490-10764-7	471 Dogwood-3	Total/NA	Solid	8260B	34123
LCS 490-35544/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-35544/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-35544/6	Method Blank	Total/NA	Solid	8260B	

#### GC/MS Semi VOA

#### Prep Batch: 34510

C 024 C 2020 C 2020 L					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-10215-D-6-B MS	Matrix Spike	Total/NA	Solid	3550C	
490-10215-D-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	
490-10764-1	1102 Iris-2	Total/NA	Solid	3550C	
490-10764-2	1345 Cardinal	Total/NA	Solid	3550C	
490-10764-3	1133 Iris-2	Total/NA	Solid	3550C	
490-10764-4	841 Azalea	Total/NA	Solid	3550C	
490-10764-5	1004 Bobwhite	Total/NA	Solid	3550C	

## **QC Association Summary**

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

TestAmerica Job ID: 490-10764-1

#### GC/MS Semi VOA (Continued)

#### Prep Batch: 34510 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-10764-6	471 Dogwood-2	Total/NA	Solid	3550C	
490-10764-7	471 Dogwood-3	Total/NA	Solid	3550C	
LCS 490-34510/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-34510/1-A	Method Blank	Total/NA	Solid	3550C	

#### Analysis Batch: 35149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-10215-D-6-B MS	Matrix Spike	Total/NA	Solid	8270D	34510
490-10215-D-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8270D	34510
490-10764-1	1102 Iris-2	Total/NA	Solid	8270D	34510
490-10764-2	1345 Cardinal	Total/NA	Solid	8270D	34510
490-10764-3	1133 Iris-2	Total/NA	Solid	8270D	34510
490-10764-4	841 Azalea	Total/NA	Solid	8270D	34510
490-10764-5	1004 Bobwhite	Total/NA	Solid	8270D	34510
490-10764-6	471 Dogwood-2	Total/NA	Solid	8270D	34510
490-10764-7	471 Dogwood-3	Total/NA	Solid	8270D	34510
LCS 490-34510/2-A	Lab Control Sample	Total/NA	Solid	8270D	34510
MB 490-34510/1-A	Method Blank	Total/NA	Solid	8270D	34510

#### Analysis Batch: 35261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-10764-7	471 Dogwood-3	Total/NA	Solid	8270D	34510

#### **General Chemistry**

#### Analysis Batch: 34082

1102 Iris-2				Prep Batch
1102 1113-2	Total/NA	Solid	Moisture	
1102 Iris-2	Total/NA	Solid	Moisture	
1345 Cardinal	Total/NA	Solid	Moisture	
1133 Iris-2	Total/NA	Solid	Moisture	
841 Azalea	Total/NA	Solid	Moisture	
1004 Bobwhite	Total/NA	Solid	Moisture	
471 Dogwood-2	Total/NA	Solid	Moisture	
471 Dogwood-3	Total/NA	Solid	Moisture	
	1345 Cardinal 1133 Iris-2 841 Azalea 1004 Bobwhite 471 Dogwood-2	1345 Cardinal       Total/NA         1133 Iris-2       Total/NA         841 Azalea       Total/NA         1004 Bobwhite       Total/NA         471 Dogwood-2       Total/NA	1345 Cardinal         Total/NA         Solid           1133 Iris-2         Total/NA         Solid           841 Azalea         Total/NA         Solid           1004 Bobwhite         Total/NA         Solid           471 Dogwood-2         Total/NA         Solid	1345 Cardinal Total/NA Solid Moisture 1133 Iris-2 Total/NA Solid Moisture 841 Azalea Total/NA Solid Moisture 1004 Bobwhite Total/NA Solid Moisture 471 Dogwood-2 Total/NA Solid Moisture

#### Lab Chronicle

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-10764-1

Client Sample ID: 1102 Iris-2

Date Collected: 10/29/12 14:15 Date Received: 11/06/12 08:10 Lab Sample ID: 490-10764-1

Matrix: Solid

Percent Solids: 90.0

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			34128	11/07/12 09:45	ML	TAL NSH
Total/NA	Analysis	8260B		1	35106	11/10/12 07:20	AF	TAL NSH
Total/NA	Prep	3550C			34510	11/08/12 15:28	AK	TAL NSH
Total/NA	Analysis	8270D		1	35149	11/10/12 20:04	JS	TAL NSH
Total/NA	Analysis	Moisture		1	34082	11/07/12 08:09	RS	TAL NSH

Client Sample ID: 1345 Cardinal

Date Collected: 10/29/12 15:15 Date Received: 11/06/12 08:10 Lab Sample ID: 490-10764-2

Matrix: Solid Percent Solids: 93.0

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			34128	11/07/12 09:45	ML	TAL NSH
Total/NA	Analysis	8260B		1	35535	11/12/12 21:26	MH	TAL NSH
Total/NA	Prep	3550C			34510	11/08/12 15:28	AK	TAL NSH
Total/NA	Analysis	8270D		1	35149	11/10/12 20:28	JS	TAL NSH
Total/NA	Analysis	Moisture		1	34082	11/07/12 08:09	RS	TAL NSH

Client Sample ID: 1133 Iris-2

Date Collected: 10/30/12 15:15 Date Received: 11/06/12 08:10 Lab Sample ID: 490-10764-3

Matrix: Solid Percent Solids: 83.0

Batch Batch Dilution Batch Prepared Prep Type Method Run or Analyzed Type Factor Number Analyst Lab Total/NA 5035 11/07/12 09:45 TAL NSH Prep 34128 ML Total/NA 35535 11/12/12 22:58 Analysis 8260B МН TAL NSH 1 Total/NA 11/08/12 15:28 TAL NSH Prep 3550C 34510 AK Total/NA Analysis 8270D 35149 11/10/12 20:51 JS TAL NSH Total/NA Analysis Moisture 34082 11/07/12 08:09 RS TAL NSH

Client Sample ID: 841 Azalea

Date Collected: 10/30/12 14:30

Date Received: 11/06/12 08:10

Lab Sample ID: 490-10764-4

Matrix: Solid

Percent Solids: 72.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			34128	11/07/12 09:45	ML	TAL NSH
Total/NA	Analysis	8260B		1	35535	11/12/12 23:29	МН	TAL NSH
Total/NA	Prep	3550C			34510	11/08/12 15:28	AK	TAL NSH
Total/NA	Analysis	8270D		1	35149	11/10/12 21:15	JS	TAL NSH
Total/NA	Analysis	Moisture		1	34082	11/07/12 08:09	RS	TAI NSH

#### Lab Chronicle

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-10764-1

Client Sample ID: 1004 Bobwhite

Date Collected: 10/31/12 15:30 Date Received: 11/06/12 08:10 Lab Sample ID: 490-10764-5

Matrix: Solid

Percent Solids: 95.3

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			34128	11/07/12 09:45	ML	TAL NSH
Total/NA	Analysis	8260B		1	35535	11/13/12 00:00	мн	TAL NSH
Total/NA	Prep	3550C			34510	11/08/12 15:28	AK	TAL NSH
Total/NA	Analysis	8270D		1	35149	11/10/12 21:39	JS	TAL NSH
Total/NA	Analysis	Moisture		1	34082	11/07/12 08:09	RS	TAL NSH

Client Sample ID: 471 Dogwood-2

Date Collected: 10/31/12 14:35 Date Received: 11/06/12 08:10 Lab Sample ID: 490-10764-6

Matrix: Solid

Percent Solids: 68.7

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			34128	11/07/12 09:45	ML	TAL NSH
Total/NA	Analysis	8260B		1	35535	11/13/12 00:31	МН	TAL NSH
Total/NA	Prep	5035			34123	11/07/12 09:43	ML	TAL NSH
Total/NA	Analysis	8260B		1	35544	11/13/12 10:31	МН	TAL NSH
Total/NA	Prep	3550C			34510	11/08/12 15:28	AK	TAL NSH
Total/NA	Analysis	8270D		1	35149	11/10/12 22:02	JS	TAL NSH
Total/NA	Analysis	Moisture		1	34082	11/07/12 08:09	RS	TAL NSH

Client Sample ID: 471 Dogwood-3

Date Collected: 11/01/12 15:35 Date Received: 11/06/12 08:10 Lab Sample ID: 490-10764-7

Matrix: Solid

Percent Solids: 81.4

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			34128	11/07/12 09:45	ML	TAL NSH
Total/NA	Analysis	8260B		1	35535	11/13/12 01:02	МН	TAL NSH
Total/NA	Prep	5035			34123	11/07/12 09:43	ML	TAL NSH
Total/NA	Analysis	8260B		1	35544	11/13/12 11:02	МН	TAL NSH
Total/NA	Prep	3550C			34510	11/08/12 15:28	AK	TAL NSH
Total/NA	Analysis	8270D		1	35149	11/10/12 22:26	JS	TAL NSH
Total/NA	Analysis	8270D		5	35261	11/11/12 19:21	JS	TAL NSH
Total/NA	Analysis	Moisture		1	34082	11/07/12 08:09	RS	TAL NSH

**Laboratory References:** 

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

## **Method Summary**

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-10764-1

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

#### Protocol References:

EPA = US Environmental Protection Agency

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

#### **Laboratory References:**

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

## **Certification Summary**

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-10764-1

## Laboratory: TestAmerica Nashville

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

Authority	Program	EPA Region	Certification ID	Expiration Dat
	ACIL		393	10-30-13
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alabama	State Program	4	41150	05-31-13
Alaska (UST)	State Program	10	UST-087	07-24-13
Arizona	State Program	9	AZ0473	05-05-13
Arkansas DEQ	State Program	6	88-0737	04-25-13
California	NELAC	9	1168CA	10-31-13
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Colorado	State Program	8	N/A	02-28-13
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAC	4	E87358	06-30-13
Ilinois	NELAC	5	200010	12-09-12
owa	State Program	7	131	05-01-14
Kansas	NELAC	7	E-10229	10-31-13
Kentucky	State Program	4	90038	12-31-12
Kentucky (UST)	State Program	4	19	09-15-13
Louisiana	NELAC	6	LA120025	12-31-12
Louisiana	NELAC	6	30613	06-30-13
Maryland	State Program	3	316	03-31-13
Massachusetts	State Program	1	M-TN032	06-30-13
Minnesota	NELAC	5	047-999-345	12-31-12
Mississippi	State Program	4	N/A	06-30-13
Montana (UST)	State Program	8	NA	01-01-15
Nevada	State Program	9	TN00032	07-31-13
New Hampshire	NELAC	1	2963	10-09-13
New Jersey	NELAC	2	TN965	06-30-13
New York	NELAC	2	11342	04-01-13
North Carolina DENR	State Program	4	387	12-31-12
North Dakota	State Program	8	R-146	06-30-13
Ohio VAP	State Program	5	CL0033	01-19-14
Oklahoma	State Program	6	9412	08-31-13
Oregon	NELAC	10	TN200001	04-30-13
Pennsylvania	NELAC	3	68-00585	06-30-13
Rhode Island	State Program	1	LAO00268	12-30-12
South Carolina	State Program	4	84009 (001)	02-28-13
South Carolina	State Program	4	84009 (002)	02-23-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAC	6	T104704077-09-TX	08-31-13
JSDA	Federal		S-48469	11-02-13
Jtah	NELAC	8	TAN	06-30-13
Virginia	NELAC	3	460152	06-14-13
Washington	State Program	10	C789	07-19-13
West Virginia DEP	State Program	3	219	02-28-13
Wisconsin	State Program	5	998020430	08-31-13
Wyoming (UST)	A2LA	8	453.07	12-31-13



# Charleston



#### COOLER RECEIPT FORM

Cooler Received/Opened On 11/6/2012 @ 0810 1. Tracking # (last 4 digits, FedEx) Courier: FedEx IR Gun ID 97460373 2. Temperature of rep. sample or temp blank when opened: // Degrees Celsius 3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO.... 4. Were custody seals on outside of cooler? If yes, how many and where: 5. Were the seals intact, signed, and dated correctly? KES...NO...NA 6. Were custody papers inside cooler? I certify that I opened the cooler and answered questions 1-6 (intial 7. Were custody seals on containers: YES and Intact YES...NO..ANAS 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 YES, NO...NA 13a. Were VOA vials received? b. Was there any observable headspace present in any VOA vial? YES...NOCSNA 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) 15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO7NA MES .. NO...NA b. Did the bottle labels indicate that the correct preservatives were used YES...NO. NA 16. Was residual chlorine present? (w) I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) 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

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

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

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

#10) 1/33 Iris - 2 - one sodium Bisulfate viul -B-I.5. as

Date Sampled  Date Sampled  Time Sampled  No. of Containers Shipped  X X Grab  Composite  Field Filtered  Ico  HNO, (Red Label)  HNO, (Red	Rashville, TN 2704  Rashvi			080	11-6-12	X TAN	ALLAMA (			Care	/
Date Sampled  Date Sampled  Time Sampled  Time Sampled  Time Sampled  Time Sampled  No. of Containers Shipped  X X Grab  Composite  Field Filtered  Ioe  HNO, (Red Label)  NacH (Orange Label)  H,50, Pleaste (Velov Label)  H,50, CliascyCollow Label)  None (Black Label)  Other (specify):  Temperature Upon Receipt  VOCs Free of Headingspace?  PA H - 8270D	Rashville, TN 37244  Rashville			Time	Date	KAMOON	Face C	2900	1	11/5	1/4
Date Sampled    Color   Color   Color   Color	Hashville, IN 37244  Hashville	<b>~</b>	Temperature Upon Receipt 0.4 c VOCs Free of Headspace?			thod of Shipment:	Med Received by:	Time		, Date	AND I
Date Sampled  Time Sampled  No. of Containers Shipped  Composite  Field Filtered  Ics  HNO <sub>3</sub> (Red Label)  H <sub>5</sub> SO <sub>4</sub> (Black Label)  NaCH (Orange Label)  None (Black Label)  Other (Specify)  Studge  Soll  Other (Specify):  STAN XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Naminille, TN 37204  Naminille, TN 37204  Naminille, TN 37204  No. of Containers Shipped  No. of Containers Shipped  No. of Containers Shipped  Fax No.: \$473 - \$240  No. of Containers Shipped  No. of Containers Shipped  No. of Containers Shipped  Fax No.: \$473 - \$240  No. of Containers Shipped  No. of Containers Ship							-			
Date Sampled  Date Sampled  Time Sampled  Ti	Assemblie, TN 37204  Nashville, TN 37204  Nashville, TN 37204  No. of Containers Shipped  Compliance Monitoring? Yes  Fax No.: \$473 - \$4 \times Sampled  Fax No.: \$473 - \$74 \			1				_			
Date Sampled  Date Sampled  Time Sampled  No. of Containers Shipped  No. of	Nashville, TN 97244  Page 15   15   15   15   15   15   15   15							_			
Date Sampled  Date Sampled  Time Sampled  No. of Containers Shipped  Composite  Field Filtered  Ice  HNO <sub>3</sub> (Red Label)  H <sub>2</sub> SO <sub>4</sub> Plastic (Yellow Label)  H <sub>2</sub> SO <sub>4</sub> Glass(Yellow Label)  None (Black Label)  Other (Specify)  AXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Nashville, TN 97244  Nashville, TN 97244  Page 15-726-3444  Fax: 615-726-3444  Composite Fex No.: 8473-877-69 40  Field Filtered Ice Field Filtered Ice Field Filtered Ice Phys. (Red Laber) Hy.SO., (Red Laber) Hy.SO., (Pleatic (Yellow Laber)) Hy.So., (Pleatic (Yell	70		-	×	2		1	-	11/11/12	Degwood -3
Date Sampled    Composite   Field Filtered	Nashville, TN 97244  Nashville, TN 97244  Page 105-726-4404  Fax: 615-726-4404  Fax: 615-	8		X	*	2			1435	13/1	1
Date Sampled  Date Sampled  Time Sampled  Time Sampled  No. of Containers Shipped  Composite  Field Filtered  Ice  HNO3 (Red Label)  HsSO4 Plastic (Yellow Label)  HsSO4 Plastic (Yellow Label)  HsSO4 Glass(Yellow Label)  None (Black Label)  Wastewater  Wastewater  Drinking Water  Sludge  Soll  Other (specify):  HSO4 PAH - 8270D  PAH - 8270D	Nach ( Compliance Monitoring? Yes  1515 4 X Composite Field Filtered Ice HNOs (Red Laber) H-\$50, Class (Yellow Laber) H-\$50, Compliance Monitoring? Yes  Site State: SC  PO#:    Doi:	8			×	ري 		_		(3)	Bebukiti
Date Sampled  Time Sampled  No. of Containers Shipped  No. of Containers Shipped  Composite  Field Filtered  Ice  HNO <sub>3</sub> (Red Label)  H <sub>2</sub> SO <sub>4</sub> Pleatic (Yellow Label)  H <sub>2</sub> SO <sub>4</sub> Glass(Yellow Label)  None (Black Label)  None (Black Label)  Other (Specify)  Wastewater  Wastewater  Drinking Water  Studge  Soll  Other (specify):  A A PAH - 8270D	Nach ( Composite Field Filtered Ice HNSQ (Flastic (Yellow Label) HysQ (Sites (Yellow Label) HysQ (Yes	8		XX	X	2			H30	30	2
Date Sampled  Time Sampled  No. of Containers Shipped  K Grab  Composite  Field Filtered  Ice  HNO <sub>3</sub> (Red Labet)  NaOH (Orange Labet)  H <sub>2</sub> SO <sub>4</sub> Piestic (Yellow Labet)  H <sub>2</sub> SO <sub>4</sub> Piestic (Yellow Labet)  None (Black Labet)  Groundwater  Wastewater  Drinking Water  Sludge  Soll  Other (specify):  K PAH - 8270D	Nemali: mostwee@eeginc.net  Presentation (Part Chelyllum)  Project ID: Laurel Bay Housing Project (Part Chelyllum)  Project ID: Laurel Bay Housing P	2		XX	X	-		4	1515		
Date Sampled  Time Sampled  No. of Containers Shipped  Grab  Composite  Field Filtered  Ice  HNO <sub>3</sub> (Red Label)  H38 (Blee Label)  H28O <sub>4</sub> Plastic (Yellow Label)  H28O <sub>4</sub> Plastic (Yellow Label)  None (Black Label)  Other (Specify)  Groundwater  Wastewater  Drinking Water  Studge  Soll  Other (specify):  BTEX + Napth - 8260  X PAH - 8270D	No. of Containers Shipped  No. of Containers Shipped  Fax 615-726-3404  Fax 615-726-	, 02		人人	×	20		X H	1515	160	CARCINAL
Date Sampled  Time Sampled  No. of Containers Shipped  Grab  Composite  Field Filtered  Ice  HNO <sub>3</sub> (Red Label)  HSH (Bies-Label)  H2SO <sub>4</sub> Plastic (Yellow Label)  None (Black Label)  Other (Specify)  Groundwater  Wastewater  Drinking Water  Studge  Soil  Other (episcify):  BTEX + Napth - 8260  PAH - 8270D	Apply Country Designation (1997)  Apply 10 Apply	O.		××	7	2		X	15146	10/29/12	TRIS-2
	Nashville, TN 37204  Fax: 615-726-3404  regulatory purposes?  Compliance Monitoring?  Yes  9456  Site State: SC  Po#: 10 6 5  Fax No.: 843-875-690  Freservative  Matrix  Analyze For:	RUSH TAT (Pre-Schedule		BTEX + Napth - 8260	Wastewater Drinking Water 'Sludge	NaOH ( Orange Label)  H <sub>2</sub> SO <sub>4</sub> Pleatic (Yellow Label)  H <sub>2</sub> SO <sub>4</sub> Glass(Yellow Label)  None (Black Label)  Other ( Specify)	Composite Field Filtered		Time Sampled	Date Sampled	scription
	Nashville, TN 37204  Fax: 615-726-3404  Fax: 615-72			Project #:		1			18	Alle	Sampler Signature:
Sampler Signature: P0144 Project #:	Nashville, TN 37204  Fax: 615-726-3404  Fax: 615-726-3404  regulatory purposes?  Compliance Monitoring?  Yes  9456  PO#: 10 6 5		Laurel Bay Housing Project	Project ID:			-	38	H/S	1ma	Sampler Name: (Print)
ARM Show	Nashville, TN 37204  Fax: 615-726-3404  Fax: 615-726-3404  regulatory purposes?  Compliance Monitoring? Yes  y 78  Site State: SC  PO#: 15 65			TA Quote #:	1040	843-879	Fax N			843.412.2097	Telephone Number.
843.412.2097 Fax No.: 843-879-640/ 1	Nashville, TN 37204  Fax: 615-726-3404  regulatory purposes?  Compliance Monitoring?  Yes  Yes  9456  Site State: SC			PO#:			net	@eegino	mail; mcelwee	Tom McElwee 6	Project Manager:
Tom McElwee email: mcelwee@eeginc.net  843.412.2097  Fax No.: 8475-879-640/  F	Nashville, TN 37204  Fax: 615-726-3404  regulatory purposes?  Compliance Monitoring?  Yes  Part of the control		SC	Site State:					56	Ladson, SC 294	City/State/Zip:
Ladson, SC 29456  Tom McElwee email; mcelwee@eeginc.net  843.412.2097  Fax No.: 8473-875-640  Fax No.: 8473-875-640  Fax No.: 8473-875-640	Nashville, TN 37204 Fax: 615-726-3404 regulatory purposes?  Compliance Monitoring? Yes		Enforcement Action?					-	78	10179 Highway	Address
10179 Highway 78  Ladson, SC 29456  Tom McElwee email: mcelwee@eeginc.net  Fax No.: 8473-879-640  Froject #:  Project #:	Nashville, TN 37204 Fax: 615-726-3404		Compliance Monitoring?						149	EEG - SBG # 2	Client Name/Account #
EEG - SBG # 2449   Compliance Monitoring?   Yes	Nashville Division Phone: 615-726-0177		To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?		(T) (T)	Phone: 615-726-0177 Toll Free: 800-765-0980 Fax: 615-726-3404	g	Creight N 37204	Nashville D 2960 Foster Nashville, T	L TESTING	THE LEADER IN ENVIRONMENTAL TESTING

10764

## Login Sample Receipt Checklist

Client: Environmental Enterprise Group

Job Number: 490-10764-1

Login Number: 10764

List Source: TestAmerica Nashville

List Number: 1 Creator: McBride, Mike

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
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



# **NON-HAZARDOUS MANIFEST**

	1. Generator	's US EPA	A ID No.	Ma	nifest Doc	No.	2. Page 1	of			
	NON-HAZARDOUS MANIFEST							1			
									7		
	3. Generator's Mailing Address:	Gen	erator's Site	Address (If di	fferent than m	ailing):	A. Manife	est Number			
	MCAS, BEAUFORT						W	/MNA	00316	5840	
	LAUREL BAY HOUSING							B. State (	Generator's	ID	
ı	BEAUFORT, SC 29907	1					-				
	4. Generator's Phone 843-228-6461										
	5. Transporter 1 Company Name		6.	US EPA ID	Number		V. C.				
	•						C. State T	ransporter's II	)		
	EEG, INC.						· · · · · · · · · · · · · · · · · · ·	orter's Phone		379-041	11
ł	7. Transporter 2 Company Name		8.	US EPA ID	Number		D. Hailsp	orter 3 Fridire	043 (	773-043	
	7. Hansporter 2 company Name		8.	U3 EPA ID	Iduitibei		F State T	ransporter's II	<u>111 - 1118) 344.</u> 1	<u> </u>	1752 (1861) (1861) (1861) (1861) (1861) (1861) (1861) (1861) (1861) (1861) (1861) (1861) (1861) (1861) (1861)
								<del></del> ·			
-	9. Designated Facility Name and Site Address		10.	LIC EDA I	D Number		r. rransp	orter's Phone			
			10.	US EFA I	D Nulliber		J	ete is	<u> </u>	<u> </u>	35, 2015, 1
	HICKORY HILL LANDFILL						G. State F				
ł	2621 LOW COUNTRY ROAD						H. State F	acility Phone	843-9	987-464	13
	RIDGELAND, SC 29936										
	11. Description of Waste Materials			<u></u>		ntainers	13. Total	14. Unit	I. M	lisc. Comme	ents
G E	·			<del></del>	No.	Туре	Quantity	Wt./Vol.			
N	a. HEATING OIL TANKS FILLED WITH SAND										
E											5 00 15 17 17 17 17
R	WM Profile # 102655	SSC									
Α	b.										
Τ											
이	WM Profile #				1000				<u> </u>		48.48
R					10 av 65,18		[		-		7 7 -809
ĺ	c.				1		-	ĺ			
							0.754.41.555				4.5 % 14.5
-	WM Profile #										
	d.										
	WM Profile #				Fyria Gallani i S	30.871.69			KAK DOZ	7	
t	J. Additional Descriptions for Materials Listed Abov	/e			K. Dispos	al Location		A			
	•				'						
-					Cell				Level		-
					Grid				- <del>-</del>		
Γ	15. Special Handling Instructions and Additional Info	rmation			1 1	\ \circ_2\(\tau_1\).	AZA	1	6) 57	To Las	!
1	(457 's (Rim: 2)1	103	· 12/	2	7			-	100		3my
	D 1102 I 1215-2 3)	34	COM	edin,	n 1 5	) 100	4 301	owhite		ş-	~~y
ŀ	Purchase Order #			GENCY CON	<del></del> _		, ,00,	Suz 11 70	<u> </u>		
-			CIVIER	ULING FEOT	IIACI / FAC	DIVE NO.					
	16. GENERATOR'S CERTIFICATE:							_			
	I hereby certify that the above-described materials at								ve been ful	ly and	
Ļ	accurately described, classified and packaged and are Printed Name	: In prop				uing to ap	piicable regu	iations.	Manet	Da.:	V
	rinted Name	-	Signature	e "On behalf	U \		The state of the s		Month	Day	Year
+	17. Transporter 1 Acknowledgement of Receipt of M	aterials			36 1	- Comment	Manager Company of the Company of th		1.13.	<u> </u>	1
Ŕ	Printed Name		Signature			3 0			Month	Day	Year
Ñ	TAMES BALDWIN		Signature	e Command d	12~	0.4)	المسادية		Wionth	: Uay	1 o
S	18. Transporter 2 Acknowledgement of Receipt of M	atorials.	1 71-1	C) i y -	المسكريان	and the standard	<u> </u>		1 1 2 1	<u> </u>	1/-
O L		ateriais	T		•			· · · · · · · · · · · · · · · · · · ·	T-1		1
T	Printed Name		Signatur	е					Month	Day	Year
R										1	
$\top$	19. Certificate of Final Treatment/Disposal										•
F	I certify, on behalf of the above listed treatment facil	ity that	to the hest of	f my knowla	dge the sh	nve-descril	ned waste w	as managed in	compliant	e with at	,
^\ C	applicable laws, regulations, permits and licenses on				uge, the ab	ove uesti li	ocu waste W	as manageu II	· compnant	C WILLIAM	
<u>:</u>	20. Facility Owner or Operator: Certification of recei				vered by th	is manifect					
┆┞		PE 01 1101			TOTAL DY III			<del></del>	Month	Day	Year
Y	Printed Name	( )	Signatur	C			14		/	Jay	1
	10MI VOTELU			1000	<u> </u>	107 that	f , k		115	(0	<u> </u>

Pink- FACILITY USE ONLY

Yellow- GENERATOR #1 COPY

# Appendix C Regulatory Correspondence





Catherine B. Templeton, Director

Programing and preserving the health of the public and the environment

May 15, 2014

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

RE: No Further Action

Laurel Bay Underground Storage Tank Assessment Reports for:

See attached sheet

Dear Mr. Drawdy,

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

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

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

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

Sincerely,

Kent Krieg

Department of Defense Corrective Action Section

Bureau of Land and Waste Management

South Carolina Department of Health and Environmental Control

Cc: Russell Berry (via email)

Craig Ehde (via email)



Catherine B. Templeton, Director

Promosting and protecting the health of the public and the environment

Attachment to:

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

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

219 Balsam       508 Laurel Bay         260 Beech Tank 1       510 Laurel Bay         260 Beech Tank 2       523 Laurel Bay         287 Birch       525 Laurel Bay         302 Ash       533 Laurel Bay         305 Ash       537 Laurel Bay         334 Ash       556 Dahlia         338 Ash Tank 1       557 Dahlia         338 Ash Tank 2       559 Dahlia         361 Aspen       562 Dahlia         371 Aspen       568 Dahlia         372 Aspen Tank 1       581 Aster         375 Aspen       584 Aster         385 Aspen       602 Dahlia         403 Elderberry       607 Dahlia         407 Elderberry       614 Dahlia         411 Elderberry       616 Dahlia         412 Elderberry       625 Dahlia         427 Elderberry       631 Dahlia         428 Elderberry       634 Dahlia         428 Elderberry       634 Dahlia         431 Elderberry       660 Camellia         435 Elderberry       661 Camellia         436 Laurel Bay       666 Camellia         490 Laurel Bay       669 Camellia	212 Balsam	503 Laurel Bay
260 Beech Tank 2       523 Laurel Bay         267 Birch       525 Laurel Bay         287 Birch       529 Laurel Bay         302 Ash       533 Laurel Bay         305 Ash       537 Laurel Bay         334 Ash       556 Dahlia         338 Ash Tank 1       557 Dahlia         338 Ash Tank 2       559 Dahlia         361 Aspen       562 Dahlia         371 Aspen       568 Dahlia         372 Aspen Tank 1       581 Aster         372 Aspen Tank 2       582 Aster         375 Aspen       584 Aster         385 Aspen       602 Dahlia         403 Elderberry       607 Dahlia         407 Elderberry       614 Dahlia         411 Elderberry       615 Dahlia         412 Elderberry       629 Dahlia         421 Elderberry       629 Dahlia         422 Elderberry       631 Dahlia         423 Elderberry       634 Dahlia         424 Elderberry       634 Dahlia         425 Elderberry       660 Camellia         455 Elderberry       666 Camellia         480 Laurel Bay       666 Camellia	219 Balsam	508 Laurel Bay
267 Birch       525 Laurel Bay         287 Birch       529 Laurel Bay         302 Ash       533 Laurel Bay         305 Ash       537 Laurel Bay         334 Ash       556 Dahlia         338 Ash Tank 1       557 Dahlia         338 Ash Tank 2       559 Dahlia         361 Aspen       562 Dahlia         371 Aspen       568 Dahlia         372 Aspen Tank 1       581 Aster         372 Aspen Tank 2       582 Aster         375 Aspen       584 Aster         385 Aspen       602 Dahlia         403 Elderberry       607 Dahlia         407 Elderberry       614 Dahlia         411 Elderberry       616 Dahlia         414 Elderberry       619 Dahlia         415 Elderberry       625 Dahlia         427 Elderberry       631 Dahlia         428 Elderberry       634 Dahlia         431 Elderberry       660 Camellia         455 Elderberry       661 Camellia         450 Laurel Bay       666 Camellia          490 Laurel Bay       669 Camellia	260 Beech Tank 1	510 Laurel Bay
287 Birch       529 Laurel Bay         302 Ash       533 Laurel Bay         305 Ash       537 Laurel Bay         334 Ash       556 Dahlia         338 Ash Tank 1       557 Dahlia         338 Ash Tank 2       559 Dahlia         361 Aspen       562 Dahlia         371 Aspen       568 Dahlia         372 Aspen Tank 1       581 Aster         372 Aspen Tank 2       582 Aster         375 Aspen       584 Aster         385 Aspen       602 Dahlia         403 Elderberry       607 Dahlia         407 Elderberry       614 Dahlia         411 Elderberry       616 Dahlia         414 Elderberry       619 Dahlia         415 Elderberry       625 Dahlia         427 Elderberry       631 Dahlia         428 Elderberry       634 Dahlia         431 Elderberry       660 Camellia         455 Elderberry       661 Camellia         484 Laurel Bay       666 Camellia         490 Laurel Bay       669 Camellia	260 Beech Tank 2	523 Laurel Bay
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338 Ash Tank 1       557 Dahlia         338 Ash Tank 2       559 Dahlia         361 Aspen       562 Dahlia         371 Aspen       568 Dahlia         372 Aspen Tank 1       581 Aster         372 Aspen Tank 2       582 Aster         375 Aspen       584 Aster         385 Aspen       602 Dahlia         403 Elderberry       607 Dahlia         407 Elderberry       614 Dahlia         411 Elderberry       616 Dahlia         414 Elderberry       619 Dahlia         415 Elderberry       625 Dahlia         421 Elderberry       629 Dahlia         427 Elderberry       631 Dahlia         428 Elderberry       634 Dahlia         431 Elderberry       660 Camellia         455 Elderberry       661 Camellia         484 Laurel Bay       666 Camellia         490 Laurel Bay       669 Camellia	305 Ash	537 Laurel Bay
338 Ash Tank 2       559 Dahlia         361 Aspen       562 Dahlia         371 Aspen       568 Dahlia         372 Aspen Tank 1       581 Aster         372 Aspen Tank 2       582 Aster         375 Aspen       584 Aster         385 Aspen       602 Dahlia         403 Elderberry       607 Dahlia         407 Elderberry       614 Dahlia         411 Elderberry       616 Dahlia         414 Elderberry       625 Dahlia         421 Elderberry       629 Dahlia         427 Elderberry       631 Dahlia         428 Elderberry       634 Dahlia         431 Elderberry       660 Camellia         455 Elderberry       661 Camellia         484 Laurel Bay       666 Camellia         490 Laurel Bay       669 Camellia	334 Ash	556 Dahlia
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371 Aspen       568 Dahlia         372 Aspen Tank 1       581 Aster         372 Aspen Tank 2       582 Aster         375 Aspen       584 Aster         385 Aspen       602 Dahlia         403 Elderberry       607 Dahlia         407 Elderberry       614 Dahlia         411 Elderberry       616 Dahlia         414 Elderberry       619 Dahlia         415 Elderberry       625 Dahlia         427 Elderberry       631 Dahlia         428 Elderberry       634 Dahlia         431 Elderberry       660 Camellia         455 Elderberry       661 Camellia         484 Laurel Bay       666 Camellia         490 Laurel Bay       669 Camellia	338 Ash Tank 2	559 Dahlia
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484 Laurel Bay 666 Camellia 490 Laurel Bay 669 Camellia	431 Elderberry	660 Camellia
490 Laurel Bay 669 Camellia	455 Elderberry	661 Camellia
·	484 Laurel Bay	666 Camellia
502 Laurel Bay 672 Camellia	490 Laurel Bay	669 Camellia
	502 Laurel Bay	672 Camellia

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

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

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

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