SUMMARY REPORT
351 ELDERBERRY DRIVE (FORMERLY 434 ELDERBERRY DRIVE)
LAUREL BAY MILITARY HOUSING AREA
MARINE CORPS AIR STATION BEAUFORT
BEAUFORT, SC

Revision: 0 Prepared for:

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

and



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

JUNE 2021

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Prepared by:



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

Contract Number: N62470-14-D-9016

CTO WE52

JUNE 2021



Table of Contents

1.0 1.1 1.2	Backgrou	TION
2.0		ACTIVITIES AND RESULTS
2.1 2.2		VAL AND SOIL SAMPLING
3.0	PROPERTY	STATUS4
4.0	REFERENC	ES4
Table	1	Table Laboratory Analytical Results - Soil Appendices
Appen Appen Appen	dix B	Multi-Media Selection Process for LBMH UST Assesment Report Regulatory Correspondence





List of Acronyms

bgs below ground surface

BTEX benzene, toluene, ethylbenzene, and xylenes

CTO Contract Task Order

COPC constituents of potential concern

IDIQ Indefinite Delivery, Indefinite Quantity

IGWA Initial Groundwater Assessment

JV Joint Venture

LBMH Laurel Bay Military Housing MCAS Marine Corps Air Station

NAVFAC Mid-Lant Naval Facilities Engineering Command Mid-Atlantic

NFA No Further Action

PAH polynuclear aromatic hydrocarbon

QAPP Quality Assurance Program Plan

RBSL risk-based screening level

SCDHEC South Carolina Department of Health and Environmental Control

Site LBMH area at MCAS Beaufort, South Carolina

UST underground storage tank

VISL vapor intrusion screening level



1.0 INTRODUCTION

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

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

This report summarizes the results the environmental investigation activities associated with the storage of home heating oil and the potential release of petroleum constituents at the referenced property. Based on the results of the investigation, a No Further Action (NFA) determination has been made by the South Carolina Department of Health and Environmental Control (SCDHEC) for 351 Elderberry Drive (Formerly 434 Elderberry 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 351 Elderberry Drive (Formerly 434 Elderberry Drive). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 434 Elderberry Drive* (MCAS Beaufort, 2013). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On April 11, 2013, a single 280 gallon heating oil UST was removed from the back yard adjacent to the garage at 351 Elderberry Drive (Formerly 434 Elderberry 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 5'10" bgs and a single soil sample was collected from that depth. The



sample was collected from the fill port side of the former UST to represent a worst case scenario.

Following UST removal, a soil sample was collected from the base of the excavation and shipped to an offsite laboratory for analysis of the petroleum COPCs. Sampling was performed in accordance with applicable South Carolina regulation R.61-92, Part 280 (SCDHEC, 2017) and assessment guidelines.

2.2 Soil Analytical Results

A summary of the laboratory analytical results and SCDHEC RBSLs is presented in Table 1. A copy of the laboratory analytical data report is included in the UST Assessment Report presented in Appendix B. The laboratory analytical data report includes the soil results for the additional PAHs that were analyzed, but do not have associated RBSLs.

The soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form (Appendix B). The results of the soil sampling at the former UST location were used by MCAS Beaufort, in consultation with SCDHEC, to determine a path forward (i.e., additional sampling or NFA) for the property. The soil results collected from 351 Elderberry Drive (Formerly 434 Elderberry 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 351 Elderberry Drive (Formerly 434 Elderberry Drive). This NFA determination was obtained in a letter dated March 9, 2017. 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 – 434 Elderberry Drive, Laurel Bay Military Housing Area, October 2013.

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





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

Table



Table 1

Laboratory Analytical Results - Soil 351 Elderberry Drive (Formerly 434 Elderberry Drive) Laurel Bay Military Housing Area Marine Corps Air Station Beaufort Beaufort, South Carolina

Constituent	SCDHEC RBSLs (1)	Results Sample Collected 04/11/13								
Volatile Organic Compounds Analyz	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 A	nalyzed by EPA Method 8270D (mg/kg)									
Benzo(a)anthracene	0.66	ND								
Benzo(b)fluoranthene	0.66	ND								
Benzo(k)fluoranthene	0.66	ND								
Chrysene	0.66	ND								
Dibenz(a,h)anthracene	0.66	ND								

Notes:

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

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

mg/kg - milligram per kilogram

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

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

Appendix A Multi-Media Selection Process for LBMH





Appendix A - Multi-Media Selection Process for LBMH

Appendix B UST Assessment Report



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



OCT 2 3 20143

SC DMEC - Bureau of Land & Waste Management

OWNERSHIP OF UST (S)

	manding Officer Attn: NE	REAO (Craig Ehde)	
Owner Name (Corporation,	Individual, Public Agency, Other)		
P.O. Box 55001			
Mailing Address		iv.	
Beaufort,	South Carolina	29904-5001	
City	State	Zip Code	
843	228-7317	Craig Eh	
Area Code	Telephone Number	Contact Perso	n

II. SITE IDENTIFICATION AND LOCATION

Permit I.D. #	The second second second				
Laurel Bay Milita	ry Housing Area, Mar	rine Corps A	Air Station,	Beaufort,	SC
Facility Name or Company	Site Identifier				
434 Elderberry Di	rive, Laurel Bay Mil	itary Housi	ng Area		
Street Address or State Roa	ad (as applicable)				
Beaufort,	Beaufort				
City	County				

Attachment 2

III. INSURANCE INFORMATION

	Insura	nce Statement
qualify to receive state monies	to pay for appropriate fund, written confirma	at Permit ID Number may e site rehabilitation activities. Before participation is ation of the existence or non-existence of an environmental completed.
Is there now, or has the UST release? YES		ance policy or other financial mechanism that covers this one)
If you answered	YES to the above qu	nestion, please complete the following information:
	My policy provider is: The policy deductible The policy limit is:	is:
If you have this type of	insurance, please inc	clude a copy of the policy with this report.
I DO / DO NOT wis		T FOR SUPERB FUNDING SUPERB Program. (Circle one.)
V.	CERTIFICATION	N (To be signed by the UST owner)
I certify that I have persona attached documents; and th information, I believe that th	lly examined and an at based on my inq e submitted informa	n familiar with the information submitted in this and all quiry of those individuals responsible for obtaining this ation is true, accurate, and complete.
Name (Type or print.)		
Signature		
To be completed by No	tary Public:	
Sworn before me this	day of	, 20
(Name)		
Notary Public for the state of_ Please affix State seal if you ar	e commissioned outsi	ide South Carolina

VI. UST INFORMATION	434 Elderberry
Product(ex. Gas, Kerosene)	Heating oil
Capacity(ex. 1k, 2k)	280 gal
Age	Late 1950s
Construction Material(ex. Steel, FRP)	Steel
Month/Year of Last Use	Mid 1980s
Depth (ft.) To Base of Tank	5'10"
Spill Prevention Equipment Y/N	No
Overfill Prevention Equipment Y/N	No
Method of Closure Removed/Filled	Removed
Date Tanks Removed/Filled	4/11/2013
Visible Corrosion or Pitting Y/N	Yes
Visible Holes Y/N	Yes
Method of disposal for any USTs removed from the UST 434Elderberry was removed from	
Subtitle "D" landfill. See Attach	

VII. PIPING INFORMATION

	Steel						
Construction Metarial (as Steel ERR)	& Copper						
Construction Material(ex. Steel, FRP)							
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						
If any corrosion, pitting, or holes were observed, describe the location and extent for each piping ru							
Corrosion and pitting were found on the surface of the steel v							
Corrosion and pitting were fou							
pipe Copper supply and return	lines were sound.						
pipe. Copper supply and return	lines were sound.						
pipe. Copper supply and return	lines were sound.						
pipe. Copper supply and return	lines were sound.						
VIII. BRIEF SITE DESC	RIPTION AND HISTORY						
VIII. BRIEF SITE DESC	RIPTION AND HISTORY constructed of single wall steel						
VIII. BRIEF SITE DESC	RIPTION AND HISTORY constructed of single wall steel for heating. These USTs were						
VIII. BRIEF SITE DESC The USTs at the residences are and formerly contained fuel oil	RIPTION AND HISTORY constructed of single wall steel for heating. These USTs were						
VIII. BRIEF SITE DESC The USTs at the residences are and formerly contained fuel oil	RIPTION AND HISTORY constructed of single wall steel for heating. These USTs were						
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VIII. BRIEF SITE DESC The USTs at the residences are and formerly contained fuel oil	RIPTION AND HISTORY constructed 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	
 B. Were any petroleum odors detected in the excavation, soil borings, trenches, or monitoring wells? If yes, indicate location on site map and describe the odor (strong, mild, etc.) 		х	
C. Was water present in the UST excavation, soil borings, or trenches? If yes, how far below land surface (indicate location and depth)?		х	
D. Did contaminated soils remain stockpiled on site after closure? If yes, indicate the stockpile location on the site map. Name of DHEC representative authorizing soil removal:		Х	
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#
434 Elderb'y	Excav at fill end	Soil	Sandy	5'10"	4/11/13 1145 hrs	P. Shaw	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

^{* =} Depth Below the Surrounding Land Surface

XI. SAMPLING METHODOLOGY

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

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

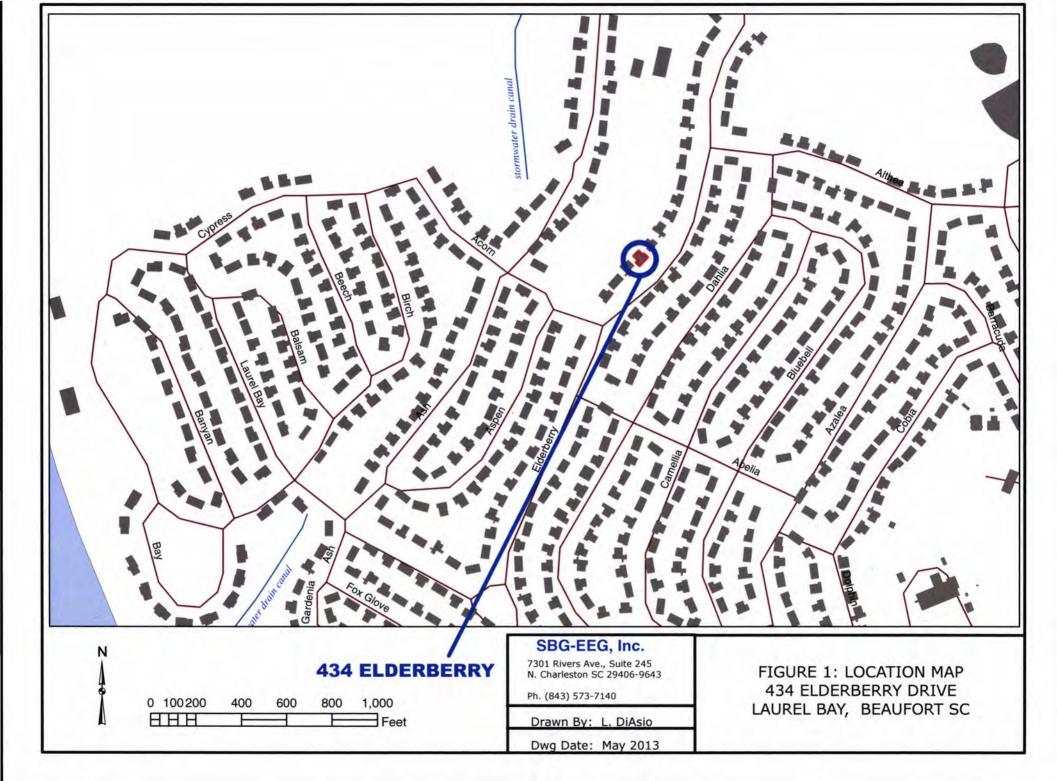
XII. RECEPTORS

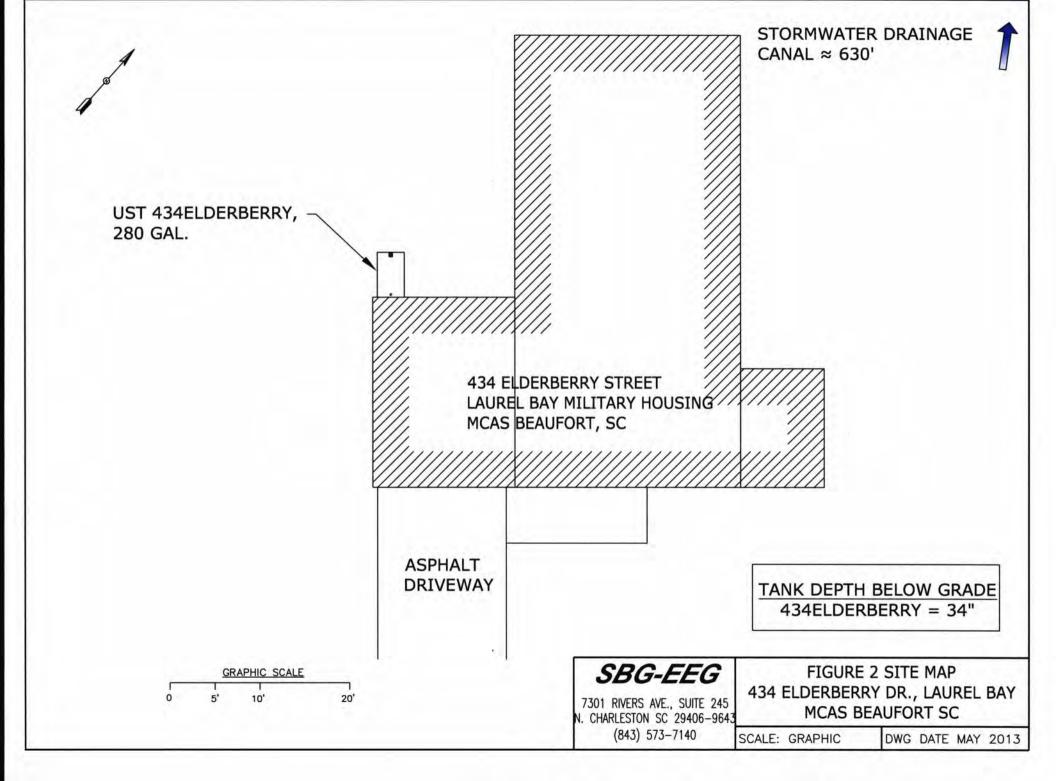
Yes No A. Are there any lakes, ponds, streams, or wetlands located within *X 1000 feet of the UST system? *Stormwater drainage canal If yes, indicate type of receptor, distance, and direction on site map. B. Are there any public, private, or irrigation water supply wells within X 1000 feet of the UST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

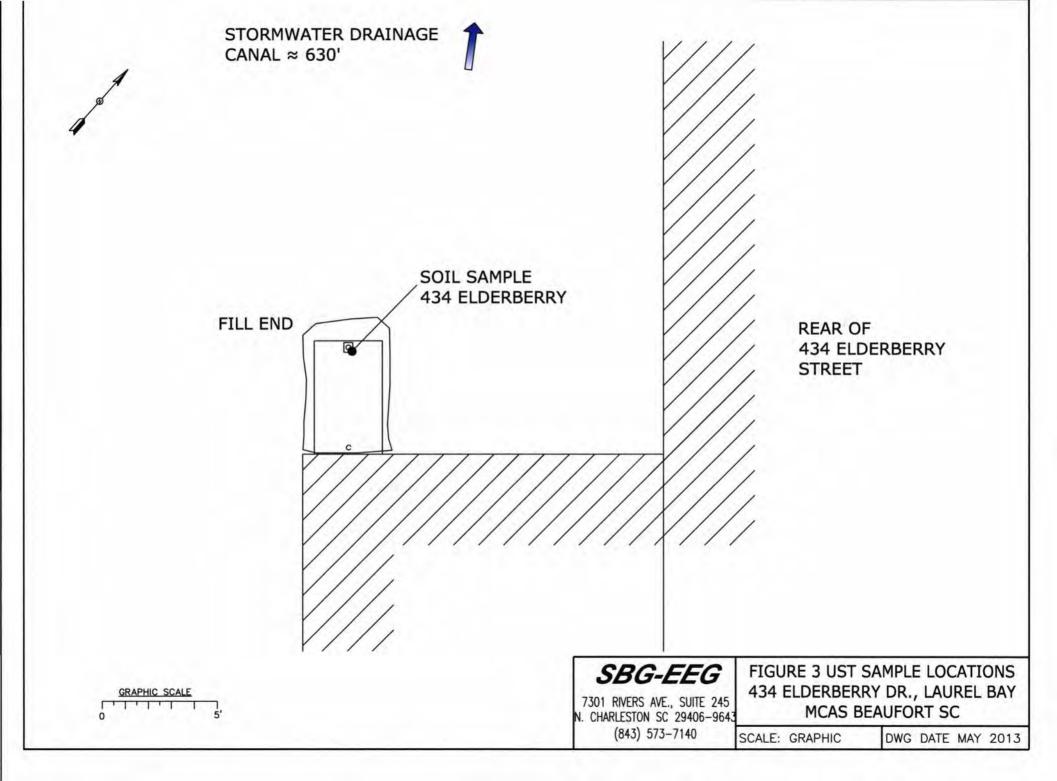
XIII. SITE MAP

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 434Elderberry.



Picture 2: UST 434Elderberry excavation.

XIV. SUMMARY OF ANALYSIS RESULTS

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

CoC UST	434Elderber	сУ				
Benzene	ND					
Toluene	ND					
Ethylbenzene	ND					1,5
Xylenes	ND					
Naphthalene	ND					
Benzo (a) anthracene	ND					
Benzo (b) fluoranthene	ND					
Benzo (k) fluoranthene	ND		DE			
Chrysene	ND					
Dibenz (a, h) anthracene	ND					
TPH (EPA 3550)						
CoC				1		
Benzene						
Toluene						
Ethylbenzene						
Xylenes						10
Naphthalene						
Benzo (a) anthracene						
Benzo (b) fluoranthene						
Benzo (k) fluoranthene						
Chrysene						
Dibenz (a, h) anthracene	1				1	
TPH (EPA 3550)						

SUMMARY OF ANALYSIS RESULTS (cont'd)

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

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



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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: 490-24495-1

Client Project/Site: Laurel Bay Housing Project

For:

Environmental Enterprise Group 10179 Highway 78 Ladson, South Carolina 29456

Attn: Mr. Tom McElwee

Kuth Haye

Authorized for release by: 4/30/2013 11:49:21 AM

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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13

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-24495-1

Table of Contents

Cover Page	1
Table of Contents	2
Sample Summary	3
Case Narrative	4
Definitions	5
Client Sample Results	6
QC Sample Results	
QC Association	20
Chronicle	22
Method Summary	25
Certification Summary	26
Chain of Custody	27
Receipt Checklists	

TestAmerica Nashville 4/30/2013

Sample Summary

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Solid

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

Lab Sample ID

490-24495-1

490-24495-2

490-24495-3

490-24495-4

490-24495-5

490-24495-6

490-24495-7

490-24495-8

Client Sample ID

1433 Dove

590 Aster

591 Aster

1435-2 Dove

642 Dahlia-2

1422 Albatross

1418 Albatross

434 Elderberry

TestAmerica Job ID: 490-24495-1

Collected

04/08/13 15:30

04/09/13 15:30

04/10/13 14:15

04/11/13 14:15

04/08/13 13:45

04/09/13 15:30

04/10/13 14:45

04/11/13 11:45

P	Č	2	

Received

04/17/13 08:30

04/17/13 08:30

04/17/13 08:30

04/17/13 08:30

04/17/13 08:30

04/17/13 08:30

04/17/13 08:30

04/17/13 08:30

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Case Narrative

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-24495-1

Job ID: 490-24495-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-24495-1

Comments

No additional comments.

Receipt

The samples were received on 4/17/2013 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2° C.

GC/MS VOA

Method(s) 8260B: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample(s): 1418 Albatross (490-24495-6), 1433 Dove (490-24495-1), 1435-2 Dove (490-24495-2).

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside control limits: 1433 Dove (490-24495-1), 1435-2 Dove (490-24495-2), 1418 Albatross (490-24495-6), SB-2-13 (0-2) (490-24512-6), SB-2-13 (0-2) (490-24512-6 MS), SB-2-13 (0-2) (490-24512-6 MSD). 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 74074.

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.

TestAmerica Nashville 4/30/2013

Definitions/Glossary

Page 5 of 30

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-24495-1

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Qualifiers

GC/MS VOA

Qualifier

Qualifier Description

X

Surrogate is outside control limits

GC/MS Semi VOA

Qualifier

Qualifier Description

.

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

Glossary

Abbreviation

These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery

CNF Contains no Free Liquid

DER Duplicate error ratio (normalized absolute difference)

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

DLC Decision level concentration
MDA Minimum detectable activity

EDL Estimated Detection Limit

MDC Minimum detectable concentration
MDL Method Detection Limit

ML Minimum Level (Dioxin)

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

PQL Practical Quantitation Limit

QC Quality Control
RER Relative error ratio

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TestAmerica Nashville

Client Sample Results

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-24495-1

100

Client Sample ID: 1433 Dove

Date Collected: 04/08/13 15:30 Date Received: 04/17/13 08:30

General Chemistry

Analyte

Percent Solids

Lab Sample ID: 490-24495-1

Matrix: Solid Percent Solids: 77.8

		70.5
zed	Dil Fac	5

Method: 8260B - Volatile Orga Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00231	0.000775	mg/Kg	n	04/17/13 20:15	04/19/13 16:28	1
Ethylbenzene	0.177		0.00231	0.000775	mg/Kg	128	04/17/13 20:15	04/19/13 16:28	1
Naphthalene	16.8		0.760	0.259	mg/Kg	13	04/17/13 20:10	04/22/13 23:44	2
Toluene	0.00358		0.00231	0.000856	mg/Kg	22	04/17/13 20:15	04/19/13 16:28	1
Xylenes, Total	0.605		0.00578	0.000775		X	04/17/13 20:15	04/19/13 16:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 130				04/17/13 20:15	04/19/13 16:28	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 130				04/17/13 20:10	04/22/13 23:44	2
4-Bromofluorobenzene (Surr)	956	X	70 - 130				04/17/13 20:15	04/19/13 16:28	1
4-Bromofluorobenzene (Surr)	114		70 - 130				04/17/13 20:10	04/22/13 23:44	2
Dibromofluoromethane (Surr)	94		70 - 130				04/17/13 20:15	04/19/13 16:28	1
Dibromofluoromethane (Surr)	92		70 - 130				04/17/13 20:10	04/22/13 23:44	2
Toluene-d8 (Surr)	112		70 - 130				04/17/13 20:15	04/19/13 16:28	1
Toluene-d8 (Surr)	105		70 - 130				04/17/13 20:10	04/22/13 23:44	2
Method: 8270D - Semivolatile	Organic Compou	nds (GC/MS	3)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.182		0.0860	0.0128	mg/Kg	n	04/18/13 12:55	04/18/13 20:17	1
Acenaphthylene	0.147		0.0860	0.0116	mg/Kg	Ø	04/18/13 12:55	04/18/13 20:17	1
Anthracene	0.165		0.0860	0.0116	mg/Kg	33	04/18/13 12:55	04/18/13 20:17	1
Benzo[a]anthracene	0.0808	J	0.0860	0.0193	mg/Kg	Ø	04/18/13 12:55	04/18/13 20:17	1
Benzo[a]pyrene	ND		0.0860	0.0154	mg/Kg	22	04/18/13 12:55	04/18/13 20:17	1
Benzo[b]fluoranthene	0.0521	J	0.0860	0.0154	mg/Kg	£E.	04/18/13 12:55	04/18/13 20:17	1
Benzo[g,h,i]perylene	ND		0.0860	0.0116	mg/Kg	n	04/18/13 12:55	04/18/13 20:17	1
Benzo[k]fluoranthene	ND		0.0860	0.0180	mg/Kg	O	04/18/13 12:55	04/18/13 20:17	1
1-Methylnaphthalene	5.17		0.344	0.0719	mg/Kg	13	04/18/13 12:55	04/19/13 18:06	4
Pyrene	0.280		0.0860	0.0154	mg/Kg	D	04/18/13 12:55	04/18/13 20:17	1
Phenanthrene	1.41		0.0860	0.0116	mg/Kg	a	04/18/13 12:55	04/18/13 20:17	1
Chrysene	0.0769	J	0.0860	0.0116	mg/Kg	n	04/18/13 12:55	04/18/13 20:17	1
Dibenz(a,h)anthracene	ND		0.0860	0.00899	mg/Kg	100	04/18/13 12:55	04/18/13 20:17	1
Fluoranthene	0.257		0.0860	0.0116	mg/Kg	10	04/18/13 12:55	04/18/13 20:17	1
Fluorene	0.841		0.0860	0.0154	mg/Kg	12	04/18/13 12:55	04/18/13 20:17	1
Indeno[1,2,3-cd]pyrene	ND		0.0860	0.0128	mg/Kg	12	04/18/13 12:55	04/18/13 20:17	1
Naphthalene	1.47		0.0860	0.0116	0.000000	n	04/18/13 12:55	04/18/13 20:17	1
2-Methylnaphthalene	7.93		0.344	0.0822		13	04/18/13 12:55	04/19/13 18:06	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	57		29 - 120				04/18/13 12:55	04/18/13 20:17	1
Terphenyl-d14 (Surr)	77		13 - 120				04/18/13 12:55	04/18/13 20:17	1
Nitrobenzene-d5 (Surr)	59		27 - 120				04/18/13 12:55	04/18/13 20:17	1

Analyzed

04/18/13 11:20

Dil Fac

RL

0.10

RL Unit

0.10 %

Prepared

Result Qualifier

78

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-24495-1

Client Sample ID: 1435-2 Dove

Date Collected: 04/09/13 15:30 Date Received: 04/17/13 08:30

Lab Sample ID: 490-24495-2

Matrix: Solid

Percent Solids: 80.3

	21
	15.7
	•
	D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0222		0.00214	0.000717	mg/Kg	T.F	04/17/13 20:15	04/19/13 16:55	1
Ethylbenzene	3.21		0.138	0.0470	mg/Kg	23	04/17/13 20:10	04/22/13 17:25	1
Naphthalene	23.8		6.91	2.35	mg/Kg	n	04/17/13 20:10	04/22/13 17:52	20
Toluene	0.0190		0.00214	0.000792	mg/Kg	n	04/17/13 20:15	04/19/13 16:55	1
Xylenes, Total	8.51		0.346	0.0470	mg/Kg	n	04/17/13 20:10	04/22/13 17:25	1



Xylenes, Total	8.51		0.346	0.0470 mg/Kg	n	04/17/13 20:10	04/22/13 17:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		70 - 130			04/17/13 20:15	04/19/13 16:55	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 130			04/17/13 20:10	04/22/13 17:25	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 130			04/17/13 20:10	04/22/13 17:52	20
4-Bromofluorobenzene (Surr)	1302	X	70 - 130			04/17/13 20:15	04/19/13 16:55	1
4-Bromofluorobenzene (Surr)	122		70 - 130			04/17/13 20:10	04/22/13 17:25	1
4-Bromofluorobenzene (Surr)	107		70 - 130			04/17/13 20:10	04/22/13 17:52	20
Dibromofluoromethane (Surr)	93		70 - 130			04/17/13 20:15	04/19/13 16:55	1
Dibromofluoromethane (Surr)	95		70 - 130			04/17/13 20:10	04/22/13 17:25	1
Dibromofluoromethane (Surr)	96		70 - 130			04/17/13 20:10	04/22/13 17:52	20
Toluene-d8 (Surr)	118		70 - 130			04/17/13 20:15	04/19/13 16:55	1
Toluene-d8 (Surr)	108		70 - 130			04/17/13 20:10	04/22/13 17:25	1
Toluene-d8 (Surr)	110		70 - 130			04/17/13 20:10	04/22/13 17:52	20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.221		0.0828	0.0124	mg/Kg	III.	04/18/13 12:55	04/18/13 20:39	1
Acenaphthylene	0.142		0.0828	0.0111	mg/Kg	22	04/18/13 12:55	04/18/13 20:39	1
Anthracene	0.115		0.0828	0.0111	mg/Kg	n	04/18/13 12:55	04/18/13 20:39	1
Benzo[a]anthracene	ND		0.0828	0.0185	mg/Kg	Œ	04/18/13 12:55	04/18/13 20:39	1
Benzo[a]pyrene	ND		0.0828	0.0148	mg/Kg	101	04/18/13 12:55	04/18/13 20:39	1
Benzo[b]fluoranthene	ND		0.0828	0.0148	mg/Kg	CI.	04/18/13 12:55	04/18/13 20:39	1
Benzo[g,h,i]perylene	ND		0.0828	0.0111	mg/Kg	n	04/18/13 12:55	04/18/13 20:39	1
Benzo[k]fluoranthene	ND		0.0828	0.0173	mg/Kg	n	04/18/13 12:55	04/18/13 20:39	1
1-Methylnaphthalene	4.12		0.0828	0.0173	mg/Kg	-128	04/18/13 12:55	04/18/13 20:39	- 1
Pyrene	0.125		0.0828	0.0148	mg/Kg	n	04/18/13 12:55	04/18/13 20:39	1
Phenanthrene	1.36		0.0828	0.0111	mg/Kg	a	04/18/13 12:55	04/18/13 20:39	1
Chrysene	0.0586	J	0.0828	0.0111	mg/Kg	EF.	04/18/13 12:55	04/18/13 20:39	1
Dibenz(a,h)anthracene	ND		0.0828	0.00865	mg/Kg	D.	04/18/13 12:55	04/18/13 20:39	1
Fluoranthene	0.0584	J	0.0828	0.0111	mg/Kg	D	04/18/13 12:55	04/18/13 20:39	1
Fluorene	0.678		0.0828	0.0148	mg/Kg	53	04/18/13 12:55	04/18/13 20:39	1
Indeno[1,2,3-cd]pyrene	ND		0.0828	0.0124	mg/Kg	IJ	04/18/13 12:55	04/18/13 20:39	1
Naphthalene	1.03		0.0828	0.0111	mg/Kg	D	04/18/13 12:55	04/18/13 20:39	1
2-Methylnaphthalene	5.56		0.166	0.0395	mg/Kg	D	04/18/13 12:55	04/19/13 18:28	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	67		29 - 120				04/18/13 12:55	04/18/13 20:39	1
Terphenyl-d14 (Surr)	92		13 - 120				04/18/13 12:55	04/18/13 20:39	1
Nitrobenzene-d5 (Surr)	68		27 - 120				04/18/13 12:55	04/18/13 20:39	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80		0.10	0.10	%			04/18/13 11:20	1

RL

0.00236

0.00236

0.00589

0.00236

0.00589

Limits

70 - 130

70 - 130

70 - 130 70 - 130 MDL Unit

0.000790 mg/Kg

0.000790 mg/Kg

0.00200 mg/Kg

0.000872 mg/Kg

0.000790 mg/Kg

D

33

47

11

ü

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

Client Sample ID: 590 Aster

Date Collected: 04/10/13 14:15

Date Received: 04/17/13 08:30

Analyte

Benzene

Toluene

Ethylbenzene

Naphthalene

Xylenes, Total

Toluene-d8 (Surr)

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Surrogate

TestAmerica Job ID: 490-24495-1

Lab Sample ID: 490-24495-3

Matrix: Solid

Percent	Solids:	95.9

0	
6	i

Prepared	Analyzed	Dil Fac
04/17/13 20:15	04/22/13 16:04	1
04/17/13 20:15	04/22/13 16:04	1
04/17/13 20:15	04/22/13 16:04	1
04/17/13 20:15	04/22/13 16:04	1



171	04/17/13 20:15	04/22/13 16:04	1	
	Prepared	Analyzed	Dil Fac	
	04/17/13 20:15	04/22/13 16:04	1	
	04/17/13 20:15	04/22/13 16:04	1	
	04/17/13 20:15	04/22/13 16:04	1	
	04/17/13 20:15	04/22/13 16:04	1	



Method: 8270D	- Semivolatile	Organic	Compounds	(GC/MS)
ALTER AND AND ADDRESS OF THE ADDRESS				

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

Result Qualifier

ND

ND

ND

ND

ND

%Recovery Qualifier

102

106

100

106

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0678	0.0101	mg/Kg	Ċ.	04/18/13 12:55	04/18/13 21:02	1
Acenaphthylene	ND		0.0678	0.00911	mg/Kg	CE.	04/18/13 12:55	04/18/13 21:02	1
Anthracene	ND		0.0678	0.00911	mg/Kg	D	04/18/13 12:55	04/18/13 21:02	1
Benzo[a]anthracene	ND		0.0678	0.0152	mg/Kg	n	04/18/13 12:55	04/18/13 21:02	1
Benzo[a]pyrene	ND		0.0678	0.0122	mg/Kg	Ø	04/18/13 12:55	04/18/13 21:02	1
Benzo[b]fluoranthene	ND		0.0678	0.0122	mg/Kg	ü	04/18/13 12:55	04/18/13 21:02	1
Benzo[g,h,i]perylene	ND		0.0678	0.00911	mg/Kg	22	04/18/13 12:55	04/18/13 21:02	1
Benzo[k]fluoranthene	ND		0.0678	0.0142	mg/Kg	TI.	04/18/13 12:55	04/18/13 21:02	1
I-Methylnaphthalene	ND		0.0678	0.0142	mg/Kg	12	04/18/13 12:55	04/18/13 21:02	1
Z TOTAL CONTRACTOR OF THE PARTY									

2-Fluorobiphenyl (Surr)	52		29 120				04/18/13 12:55	04/18/13 21:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		0.0678	0.0162	mg/Kg	322	04/18/13 12:55	04/18/13 21:02	1
Naphthalene	ND		0.0678	0.00911	mg/Kg	22	04/18/13 12:55	04/18/13 21:02	1
Indeno[1,2,3-cd]pyrene	ND		0.0678	0.0101	mg/Kg	ü	04/18/13 12:55	04/18/13 21:02	1
Fluorene	ND		0.0678	0.0122	mg/Kg	O	04/18/13 12:55	04/18/13 21:02	1
Fluoranthene	ND		0.0678	0.00911	mg/Kg	22	04/18/13 12:55	04/18/13 21:02	1
Dibenz(a,h)anthracene	ND		0.0678	0.00709	mg/Kg	D	04/18/13 12:55	04/18/13 21:02	1
Chrysene	ND		0.0678	0.00911	mg/Kg	33	04/18/13 12:55	04/18/13 21:02	1
Phenanthrene	ND		0.0678	0.00911	mg/Kg	-22	04/18/13 12:55	04/18/13 21:02	1
Pyrene	ND		0.0678	0.0122	mg/Kg	122	04/18/13 12:55	04/18/13 21:02	1
1-Methylnaphthalene	ND		0.0678	0.0142	mg/Kg	322	04/18/13 12:55	04/18/13 21:02	1
Benzo[k]fluoranthene	ND		0.0678	0.0142	mg/Kg	D.	04/18/13 12:55	04/18/13 21:02	1
Benzo[g,h,i]perylene	ND		0.0678	0.00911	mg/Kg	12	04/18/13 12:55	04/18/13 21:02	1
Benzo[b]fluoranthene	ND		0.0678	0.0122	mg/Kg	n	04/18/13 12:55	04/18/13 21:02	1
Benzo[a]pyrene	ND		0.0678	0.0122	mg/Kg	121	04/18/13 12:55	04/18/13 21:02	1



	7.00	2,550	 		
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	52	29 - 120	04/18/13 12:55	04/18/13 21:02	1
Terphenyl-d14 (Surr)	73	13 - 120	04/18/13 12:55	04/18/13 21:02	1
Nitrobenzene-d5 (Surr)	48	27 - 120	04/18/13 12:55	04/18/13 21:02	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96		0.10	0.10	%			04/18/13 11:20	1

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-24495-1

Lab Sample ID: 490-24495-4

Matrix: Solid Percent Solids: 79.4

Client Sample ID: 642 Dahlia-2

Date Collected: 04/11/13 14:15 Date Received: 04/17/13 08:30

General Chemistry

Analyte

Percent Solids

ate Received: 04/17/13 08:30								Percent Soll	us. 13.
Method: 8260B - Volatile Orga	and the second s								
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fa
Benzene	ND		0.00211	0.000707	mg/Kg	D	04/17/13 20:15	04/19/13 17:49	
Ethylbenzene	ND		0.00211	0.000707	mg/Kg	D	04/17/13 20:15	04/19/13 17:49	
Naphthalene	ND		0.00527	0.00179	mg/Kg	D	04/17/13 20:15	04/19/13 17:49	
Toluene	ND		0.00211	0.000780	mg/Kg	D	04/17/13 20:15	04/19/13 17:49	
Xylenes, Total	ND		0.00527	0.000707	mg/Kg	Di	04/17/13 20:15	04/19/13 17:49	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	100		70 - 130				04/17/13 20:15	04/19/13 17:49	
4-Bromofluorobenzene (Surr)	113		70 - 130				04/17/13 20:15	04/19/13 17:49	
Dibromofluoromethane (Surr)	94		70 - 130				04/17/13 20:15	04/19/13 17:49	
Toluene-d8 (Surr)	108		70 - 130				04/17/13 20:15	04/19/13 17:49	
Method: 8270D - Semivolatile	Organic Compou	nds (GC/MS	S)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Acenaphthene	ND		0.0833	0.0124	mg/Kg	n	04/18/13 12:55	04/18/13 21:24	
Acenaphthylene	ND		0.0833	0.0112	mg/Kg	12	04/18/13 12:55	04/18/13 21:24	
Anthracene	ND		0.0833	0.0112	mg/Kg	12	04/18/13 12:55	04/18/13 21:24	
Benzo[a]anthracene	ND		0.0833	0.0186	mg/Kg	D	04/18/13 12:55	04/18/13 21:24	
Benzo[a]pyrene	ND		0.0833	0.0149	mg/Kg	α	04/18/13 12:55	04/18/13 21:24	
Benzo[b]fluoranthene	ND		0.0833	0.0149	mg/Kg	0.7	04/18/13 12:55	04/18/13 21:24	
Benzo[g,h,i]perylene	ND		0.0833	0.0112	mg/Kg	D	04/18/13 12:55	04/18/13 21:24	
Benzo[k]fluoranthene	ND		0.0833	0.0174	mg/Kg	D	04/18/13 12:55	04/18/13 21:24	
-Methylnaphthalene	ND		0.0833	0.0174	mg/Kg	D	04/18/13 12:55	04/18/13 21:24	
Pyrene	ND		0.0833	0.0149	mg/Kg	D	04/18/13 12:55	04/18/13 21:24	
Phenanthrene	ND		0.0833	0.0112	mg/Kg	12	04/18/13 12:55	04/18/13 21:24	
Chrysene	ND		0.0833	0.0112	mg/Kg	121	04/18/13 12:55	04/18/13 21:24	
Dibenz(a,h)anthracene	ND		0.0833	0.00870	mg/Kg	13	04/18/13 12:55	04/18/13 21:24	
luoranthene	ND		0.0833	0.0112	mg/Kg	Ø	04/18/13 12:55	04/18/13 21:24	
luorene	ND		0.0833	0.0149	mg/Kg	30	04/18/13 12:55	04/18/13 21:24	
ndeno[1,2,3-cd]pyrene	ND		0.0833		mg/Kg	.83	04/18/13 12:55	04/18/13 21:24	
Naphthalene	ND		0.0833	0.0112	mg/Kg	D	04/18/13 12:55	04/18/13 21:24	
2-Methylnaphthalene	ND		0.0833	0.0199	mg/Kg	Ω	04/18/13 12:55	04/18/13 21:24	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
2-Fluorobiphenyl (Surr)	68		29 - 120				04/18/13 12:55	04/18/13 21:24	
Terphenyl-d14 (Surr)	94		13 - 120				04/18/13 12:55	04/18/13 21:24	
Nitrobenzene-d5 (Surr)	66		27 - 120				04/18/13 12:55	04/18/13 21:24	

Analyzed

04/18/13 11:20

Prepared

Dil Fac

RL

0.10

RL Unit

0.10 %

Result Qualifier

79

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-24495-1

Client Sample ID: 1422 Albatross

Date Collected: 04/08/13 13:45 Date Received: 04/17/13 08:30

Lab Sample ID: 490-24495-5

Matrix: Solid

Percent Solids: 76.3

ac	10
1	
1	6
1	
1	
1	=
ac	E
1	100
1	ы
1	PT.
1	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00213	0.000714	mg/Kg	33	04/17/13 20:15	04/19/13 18:16	1
Ethylbenzene	ND		0.00213	0.000714	mg/Kg	a	04/17/13 20:15	04/19/13 18:16	1
Naphthalene	ND		0.00533	0.00181	mg/Kg	13	04/17/13 20:15	04/19/13 18:16	1
Toluene	ND		0.00213	0.000789	mg/Kg	E	04/17/13 20:15	04/19/13 18:16	1
Xylenes, Total	ND		0.00533	0.000714	mg/Kg	n	04/17/13 20:15	04/19/13 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 130	04/17/13 20:15	04/19/13 18:16	1
4-Bromofluorobenzene (Surr)	113		70 - 130	04/17/13 20:15	04/19/13 18:16	1
Dibromofluoromethane (Surr)	94		70 - 130	04/17/13 20:15	04/19/13 18:16	1
Toluene-d8 (Surr)	108		70 - 130	04/17/13 20:15	04/19/13 18:16	1

4-Bromofluorobenzene (Surr)	113		70 - 130				04/17/13 20:15	04/19/13 18:16	1	1
Dibromofluoromethane (Surr)	94		70 - 130				04/17/13 20:15	04/19/13 18:16	1	
Toluene-d8 (Surr)	108		70 - 130				04/17/13 20:15	04/19/13 18:16	1	
Method: 8270D - Semivolatile	e Organic Compou	nds (GC/MS	5)							
Analyte	the second secon	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	ī
Acenaphthene	ND		0.0867	0.0129	mg/Kg	13	04/18/13 12:55	04/18/13 21:46	1	
Acenaphthylene	ND		0.0867	0.0116	mg/Kg	12	04/18/13 12:55	04/18/13 21:46	1	
Anthracene	ND		0.0867	0.0116	mg/Kg	C	04/18/13 12:55	04/18/13 21:46	1	
Benzo[a]anthracene	ND		0.0867	0.0194	mg/Kg	13	04/18/13 12:55	04/18/13 21:46	1	P
Benzo[a]pyrene	ND		0.0867	0.0155	mg/Kg	13	04/18/13 12:55	04/18/13 21:46	1	
Benzo[b]fluoranthene	ND		0.0867	0.0155	mg/Kg	D	04/18/13 12:55	04/18/13 21:46	1	
Benzo[g,h,i]perylene	ND		0.0867	0.0116	mg/Kg	33	04/18/13 12:55	04/18/13 21:46	1	
Benzo[k]fluoranthene	ND		0.0867	0.0181	mg/Kg	- 13	04/18/13 12:55	04/18/13 21:46	1	
1-Methylnaphthalene	ND		0.0867	0.0181	mg/Kg	n	04/18/13 12:55	04/18/13 21:46	1	
Pyrene	ND		0.0867	0.0155	mg/Kg	D	04/18/13 12:55	04/18/13 21:46	1	
Phenanthrene	ND		0.0867	0.0116	mg/Kg	331	04/18/13 12:55	04/18/13 21:46	4	
Chrysene	ND		0.0867	0.0116	mg/Kg	23	04/18/13 12:55	04/18/13 21:46	1	
Dibenz(a,h)anthracene	ND		0.0867	0.00906	mg/Kg	23	04/18/13 12:55	04/18/13 21:46	1	
Fluoranthene	ND		0.0867	0.0116	mg/Kg	13	04/18/13 12:55	04/18/13 21:46	1	
Fluorene	ND		0.0867	0.0155	mg/Kg	12	04/18/13 12:55	04/18/13 21:46	1	
Indeno[1,2,3-cd]pyrene	ND		0.0867	0.0129	mg/Kg	37	04/18/13 12:55	04/18/13 21:46	1	
Naphthalene	ND		0.0867	0.0116	mg/Kg	0	04/18/13 12:55	04/18/13 21:46	1	
2-Methylnaphthalene	ND		0.0867	0.0207	mg/Kg	D	04/18/13 12:55	04/18/13 21:46	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
2-Fluorobiphenyl (Surr)	58		29 - 120				04/18/13 12:55	04/18/13 21:46	1	
Terphenyl-d14 (Surr)	77		13 - 120				04/18/13 12:55	04/18/13 21:46	1	
Nitrobenzene-d5 (Surr)	57		27 - 120				04/18/13 12:55	04/18/13 21:46	1	
General Chemistry										
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac	

2-Methylnaphthalene	ND		0.0867	0.0207	mg/Kg	D	04/18/13 12:55	04/18/13 21:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	DII Fac
2-Fluorobiphenyl (Surr)	58		29 - 120				04/18/13 12:55	04/18/13 21:46	1
Terphenyl-d14 (Surr)	77		13 - 120				04/18/13 12:55	04/18/13 21:46	1
Nitrobenzene-d5 (Surr)	57		27 - 120				04/18/13 12:55	04/18/13 21:46	1
General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	76		0.10	0.10	%			04/18/13 11:20	-1

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-24495-1

Client Sample ID: 1418 Albatross

Date Collected: 04/09/13 15:30 Date Received: 04/17/13 08:30

Lab Sample ID: 490-24495-6

Matrix: Solid

Percent Solids: 77.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00293		0.00215	0.000720	mg/Kg	22	04/17/13 20:15	04/19/13 18:43	1
Ethylbenzene	0.975		0.136	0.0462	mg/Kg	n	04/17/13 20:10	04/22/13 18:19	1
Naphthalene	5.81		0.340	0.116	mg/Kg	TO TO	04/17/13 20:10	04/22/13 18:19	1
Toluene	0.00736		0.00215	0.000795	mg/Kg	X	04/17/13 20:15	04/19/13 18:43	1
Xylenes, Total	4.14		0.340	0.0462	mg/Kg	30	04/17/13 20:10	04/22/13 18:19	1

Toluene	0.00736		0.00215	0.000795	mg/Kg	346	04/17/13 20:15	04/19/13 18:43	- 1
Xylenes, Total	4.14		0.340	0.0462	mg/Kg	Ħ	04/17/13 20:10	04/22/13 18:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 130				04/17/13 20:15	04/19/13 18:43	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 130				04/17/13 20:10	04/22/13 18:19	1
4-Bromofluorobenzene (Surr)	804	×	70 - 130				04/17/13 20:15	04/19/13 18:43	1
4-Bromofluorobenzene (Surr)	113		70 - 130				04/17/13 20:10	04/22/13 18:19	1
Dibromofluoromethane (Surr)	94		70 - 130				04/17/13 20:15	04/19/13 18:43	1
Dibromofluoromethane (Surr)	93		70 - 130				04/17/13 20:10	04/22/13 18:19	1
Toluene-d8 (Surr)	111		70 - 130				04/17/13 20:15	04/19/13 18:43	1
Toluene-d8 (Surr)	104		70 - 130				04/17/13 20:10	04/22/13 18:19	1

Toluene-d8 (Surr)	111		70 - 130				04/17/13 20:15	04/19/13 18:43	1
Toluene-d8 (Surr)	104		70 - 130				04/17/13 20:10	04/22/13 18:19	1
Method: 8270D - Semivolatil	e Organic Compou	nds (GC/M	S)						
Analyte	man to the second of the last of	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.225		0.0852	0.0127	mg/Kg	tz	04/18/13 12:55	04/18/13 22:08	1
Acenaphthylene	0.144		0.0852	0.0114	mg/Kg	101	04/18/13 12:55	04/18/13 22:08	1
Anthracene	0.342		0.0852	0.0114	mg/Kg	n	04/18/13 12:55	04/18/13 22:08	1
Benzo[a]anthracene	0.870		0.0852	0.0191	mg/Kg	n	04/18/13 12:55	04/18/13 22:08	1
Benzo[a]pyrene	0.334		0.0852	0.0153	mg/Kg	n	04/18/13 12:55	04/18/13 22:08	1
Benzo[b]fluoranthene	0.571		0.0852	0.0153	mg/Kg	12	04/18/13 12:55	04/18/13 22:08	1
Benzo[g,h,i]perylene	0.103		0.0852	0.0114	mg/Kg	127	04/18/13 12:55	04/18/13 22:08	1
Benzo[k]fluoranthene	0.230		0.0852	0.0178	mg/Kg	n	04/18/13 12:55	04/18/13 22:08	1
1-Methylnaphthalene	3.88		0.0852	0.0178	mg/Kg	×	04/18/13 12:55	04/18/13 22:08	1
Pyrene	2.07		0.0852	0.0153	mg/Kg	za.	04/18/13 12:55	04/18/13 22:08	1
Phenanthrene	2.73		0.0852	0.0114	mg/Kg	Ø	04/18/13 12:55	04/18/13 22:08	1
Chrysene	0.745		0.0852	0.0114	mg/Kg	33	04/18/13 12:55	04/18/13 22:08	1
Dibenz(a,h)anthracene	ND		0.0852	0.00890	mg/Kg	n	04/18/13 12:55	04/18/13 22:08	1
Fluoranthene	2.19		0.0852	0.0114	mg/Kg	a	04/18/13 12:55	04/18/13 22:08	1
Fluorene	0.735		0.0852	0.0153	mg/Kg	a	04/18/13 12:55	04/18/13 22:08	1
Indeno[1,2,3-cd]pyrene	0.0905		0.0852	0.0127	mg/Kg	***	04/18/13 12:55	04/18/13 22:08	1
Naphthalene	0.998		0.0852	0.0114	mg/Kg	×	04/18/13 12:55	04/18/13 22:08	1
2-Methylnaphthalene	5.50		0.170	0.0407	mg/Kg	n	04/18/13 12:55	04/19/13 18:50	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	63		29 - 120				04/18/13 12:55	04/18/13 22:08	1
Terphenyl-d14 (Surr)	93		13 - 120				04/18/13 12:55	04/18/13 22:08	1
Nitrobenzene-d5 (Surr)	62		27 - 120				04/18/13 12:55	04/18/13 22:08	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	77		0.10	0.10	%			04/18/13 11:20	1

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-24495-1

Client Sample ID: 591 Aster

Date Collected: 04/10/13 14:45 Date Received: 04/17/13 08:30

Percent Solids

Lab Sample ID: 490-24495-7

Matrix: Solid

Percent Solids: 96.7

Date Received: 04/1//13 08:30								Percent Soil	as: 90.7
Method: 8260B - Volatile Orga	nic Compounds	(GC/MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00222	0.000745	mg/Kg	n	04/17/13 20:15	04/22/13 16:31	1
Ethylbenzene	ND		0.00222	0.000745	mg/Kg	n	04/17/13 20:15	04/22/13 16:31	1
Naphthalene	ND		0.00556	0.00189	mg/Kg	n	04/17/13 20:15	04/22/13 16:31	1
Toluene	ND		0.00222	0.000823	mg/Kg	D	04/17/13 20:15	04/22/13 16:31	1
Xylenes, Total	ND		0.00556	0.000745	mg/Kg	D	04/17/13 20:15	04/22/13 16:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 130				04/17/13 20:15	04/22/13 16:31	1
4-Bromofluorobenzene (Surr)	105		70 - 130				04/17/13 20:15	04/22/13 16:31	1
Dibromofluoromethane (Surr)	97		70 - 130				04/17/13 20:15	04/22/13 16:31	1
Toluene-d8 (Surr)	106		70 - 130				04/17/13 20:15	04/22/13 16:31	1
Method: 8270D - Semivolatile	Organic Compou	inds (GC/MS	S)						
Analyte	Control of the Contro	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0692	0.0103	mg/Kg	Ø	04/18/13 12:55	04/18/13 22:30	1
Acenaphthylene	ND		0.0692	0.00929	mg/Kg	a	04/18/13 12:55	04/18/13 22:30	1
Anthracene	ND		0.0692	0.00929	mg/Kg	Ø	04/18/13 12:55	04/18/13 22:30	1
Benzo[a]anthracene	ND		0.0692	0.0155	mg/Kg	n	04/18/13 12:55	04/18/13 22:30	1
Benzo[a]pyrene	ND		0.0692	0.0124	mg/Kg	30	04/18/13 12:55	04/18/13 22:30	1
Benzo[b]fluoranthene	ND		0.0692	0.0124	mg/Kg	а	04/18/13 12:55	04/18/13 22:30	1
Benzo[g,h,i]perylene	ND		0.0692	0.00929	mg/Kg	n	04/18/13 12:55	04/18/13 22:30	1
Benzo[k]fluoranthene	ND		0.0692	0.0145	mg/Kg	13	04/18/13 12:55	04/18/13 22:30	1
1-Methylnaphthalene	ND		0.0692	0.0145	mg/Kg	32	04/18/13 12:55	04/18/13 22:30	1
Pyrene	ND		0.0692	0.0124	mg/Kg	52	04/18/13 12:55	04/18/13 22:30	1
Phenanthrene	ND		0.0692	0.00929	mg/Kg		04/18/13 12:55	04/18/13 22:30	1
Chrysene	ND		0.0692	0.00929	mg/Kg	- 33	04/18/13 12:55	04/18/13 22:30	1
Dibenz(a,h)anthracene	ND		0.0692	0.00723	mg/Kg	a	04/18/13 12:55	04/18/13 22:30	1
Fluoranthene	ND		0.0692	0.00929	mg/Kg	n	04/18/13 12:55	04/18/13 22:30	1
Fluorene	ND		0.0692	0.0124	mg/Kg	52	04/18/13 12:55	04/18/13 22:30	1
Indeno[1,2,3-cd]pyrene	ND		0.0692	0.0103	mg/Kg	53	04/18/13 12:55	04/18/13 22:30	1
Naphthalene	ND		0.0692	0.00929	mg/Kg	72	04/18/13 12:55	04/18/13 22:30	1
2-Methylnaphthalene	ND		0.0692	0.0165	mg/Kg	12	04/18/13 12:55	04/18/13 22:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	66		29 - 120				04/18/13 12:55	04/18/13 22:30	1
Terphenyl-d14 (Surr)	83		13 - 120				04/18/13 12:55	04/18/13 22:30	1
Nitrobenzene-d5 (Surr)	65		27 - 120				04/18/13 12:55	04/18/13 22:30	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
			0.40	0.40	0.0			04140140 44.00	

Analyzed 04/18/13 11:20

0.10

0.10 %

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-24495-1

Client Sample ID: 434 Elderberry

Date Collected: 04/11/13 11:45 Date Received: 04/17/13 08:30

Percent Solids

Lab Sample ID: 490-24495-8

Matrix: Solid Percent Solids: 81.2

- =	-		

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00242	0.000811	mg/Kg	E	04/17/13 20:15	04/19/13 19:37	1
Ethylbenzene	ND		0.00242	0.000811	mg/Kg	g	04/17/13 20:15	04/19/13 19:37	1
Naphthalene	ND		0.00605	0.00206	mg/Kg	-03	04/17/13 20:15	04/19/13 19:37	1
Toluene	ND		0.00242	0.000896	mg/Kg	Ħ	04/17/13 20:15	04/19/13 19:37	1
Xylenes, Total	ND		0.00605	0.000811	mg/Kg	ü	04/17/13 20:15	04/19/13 19:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 130				04/17/13 20:15	04/19/13 19:37	1
4-Bromofluorobenzene (Surr)	111		70 - 130				04/17/13 20:15	04/19/13 19:37	1
Dibromofluoromethane (Surr)	93		70 - 130				04/17/13 20:15	04/19/13 19:37	1
Toluene-d8 (Surr)	107		70 - 130				04/17/13 20:15	04/19/13 19:37	1









Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0824	0.0123	mg/Kg	325	04/18/13 12:55	04/18/13 22:52	1
Acenaphthylene	ND		0.0824	0.0111	mg/Kg	125	04/18/13 12:55	04/18/13 22:52	1
Anthracene	ND		0.0824	0.0111	mg/Kg	n	04/18/13 12:55	04/18/13 22:52	1
Benzo[a]anthracene	ND		0.0824	0.0185	mg/Kg	23	04/18/13 12:55	04/18/13 22:52	1
Benzo[a]pyrene	ND		0.0824	0.0148	mg/Kg	D	04/18/13 12:55	04/18/13 22:52	1
Benzo[b]fluoranthene	ND		0.0824	0.0148	mg/Kg	n	04/18/13 12:55	04/18/13 22:52	1
Benzo[g,h,i]perylene	ND		0.0824	0.0111	mg/Kg	n	04/18/13 12:55	04/18/13 22:52	1
Benzo[k]fluoranthene	ND		0.0824	0.0172	mg/Kg	Œ	04/18/13 12:55	04/18/13 22:52	1
1-Methylnaphthalene	ND		0.0824	0.0172	mg/Kg	Ø	04/18/13 12:55	04/18/13 22:52	1
Pyrene	ND		0.0824	0.0148	mg/Kg	D.	04/18/13 12:55	04/18/13 22:52	1
Phenanthrene	ND		0.0824	0.0111	mg/Kg	12	04/18/13 12:55	04/18/13 22:52	1
Chrysene	ND		0.0824	0.0111	mg/Kg	12	04/18/13 12:55	04/18/13 22:52	1
Dibenz(a,h)anthracene	ND		0.0824	0.00861	mg/Kg	12	04/18/13 12:55	04/18/13 22:52	1
Fluoranthene	ND		0.0824	0.0111	mg/Kg	Ø	04/18/13 12:55	04/18/13 22:52	1
Fluorene	ND		0.0824	0.0148	mg/Kg	32	04/18/13 12:55	04/18/13 22:52	1
Indeno[1,2,3-cd]pyrene	ND		0.0824	0.0123	mg/Kg	12	04/18/13 12:55	04/18/13 22:52	1
Naphthalene	ND		0.0824	0.0111	mg/Kg	p	04/18/13 12:55	04/18/13 22:52	1
2-Methylnaphthalene	ND		0.0824	0.0197	mg/Kg	D	04/18/13 12:55	04/18/13 22:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
69		29 - 120		(04/18/13 12:55	04/18/13 22:52	1
99		13 - 120		(04/18/13 12:55	04/18/13 22:52	1
63		27 - 120		(04/18/13 12:55	04/18/13 22:52	1
							Dil Fac
	69 99 63	69 99 63	69 29 - 120 99 13 - 120 63 27 - 120	69 29 - 120 99 13 - 120	69 29 - 120 (c) 99 13 - 120 (c) 63 27 - 120 (c)	69 29 - 120 04/18/13 12:55 99 13 - 120 04/18/13 12:55 63 27 - 120 04/18/13 12:55	69 29 - 120 04/18/13 12:55 04/18/13 22:52 99 13 - 120 04/18/13 12:55 04/18/13 22:52 63 27 - 120 04/18/13 12:55 04/18/13 22:52

0.10

81

0.10 %

TestAmerica Nashville

04/18/13 11:20

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-24495-1

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

Lab Sample ID: 490-24512-C-6-B MS

Matrix: Solid

Analysis Batch: 73618

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 73519

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.00110	J	0.0539	0.03448		mg/Kg	n	62	31 - 143	
Ethylbenzene	ND		0.0539	0.01888		mg/Kg	22	35	23 - 161	
Naphthalene	ND		0.0539	0.005860		mg/Kg	307	11	10 - 176	
Toluene	0.000864	J	0.0539	0.02707		mg/Kg	Ħ	49	30 - 155	
Xylenes, Total	0.000843	J	0.162	0.05274		mg/Kg	33	32	25 - 162	

Limits 70 - 130

70 - 130

70 - 130

70 - 130

Lab Sample ID: 490-24512-C-6-C MSD

Matrix: Solid

Toluene-d8 (Surr)

Surrogate

Analysis Batch: 73618

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 73519

The state of the s	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.00110	J	0.0518	0.04027		mg/Kg	331	76	31 - 143	15	50
Ethylbenzene	ND		0.0518	0.02704		mg/Kg	D	52	23 - 161	36	50
Naphthalene	ND		0.0518	0.009543		mg/Kg	13	18	10 - 176	48	50
Toluene	0.000864	J	0.0518	0.03447		mg/Kg	33	65	30 - 155	24	50
Xylenes, Total	0.000843	J	0.155	0.07682		mg/Kg	ii.	49	25 - 162	37	50

MS MS

%Recovery Qualifier

198 X

96

110

101

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
4-Bromofluorobenzene (Surr)	132	X	70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
Toluene-d8 (Surr)	109		70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Matrix: Solid

Surrogate

Lab Sample ID: MB 490-73618/7

Analysis Batch: 73618

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000670	mg/Kg			04/19/13 12:45	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			04/19/13 12:45	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			04/19/13 12:45	1
Toluene	ND		0.00200	0.000740	mg/Kg			04/19/13 12:45	1
Xylenes, Total	ND		0.00500	0.000670	mg/Kg			04/19/13 12:45	1

MB MB %Recovery Qualifier Limits Prepared Analyzed Dil Fac 70 - 130 04/19/13 12:45

1,2-Dichloroethane-d4 (Surr) 102 04/19/13 12:45 107 70 - 130 4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) 97 70 - 130 04/19/13 12:45 Toluene-d8 (Surr) 106 70 - 130 04/19/13 12:45

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-24495-1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Lab Sample ID: LCS 490-73618/3

Matrix: Solid

Analysis Batch: 73618

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.0500	0.05508		mg/Kg		110	75 - 127	
Ethylbenzene	0.0500	0.05505		mg/Kg		110	80 - 134	
Naphthalene	0.0500	0.06555		mg/Kg		131	69 - 150	
Toluene	0.0500	0.05675		mg/Kg		113	80 - 132	
Xylenes, Total	0.150	0.1661		mg/Kg		111	80 - 137	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	108		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
Toluene-d8 (Surr)	107		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analysis Batch: 73618

Matrix: Solid

Lab Sample ID: LCSD 490-73618/4

Spike LCSD LCSD RPD %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits Limit 75 - 127 Benzene 0.0500 0.05389 mg/Kg 108 2 50 Ethylbenzene 0.0500 0.05412 mg/Kg 108 80 - 134 2 50 Naphthalene 0.0500 0.06231 mg/Kg 125 69 - 150 5 50 80 - 132 Toluene 0.0500 0.05611 112 50 mg/Kg 1 Xylenes, Total 0.150 0.1635 mg/Kg 109 80 - 137 2 50

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
4-Bromofluorobenzene (Surr)	109		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
Toluene-d8 (Surr)	108		70 - 130

Lab Sample ID: MB 490-74074/6

Matrix: Solid

Analysis Batch: 74074

Client	Sample	ID:	Metho	d Blank
	Pr	ep '	Type:	Total/NA

MB MB RL MDL Unit Dil Fac Analyte Result Qualifier Prepared Analyzed ND 0.100 0.0335 mg/Kg 04/22/13 14:05 Benzene Ethylbenzene ND 0.100 0.0335 mg/Kg 04/22/13 14:05 Naphthalene ND 0.250 0.0850 mg/Kg 04/22/13 14:05 Toluene ND 0.100 0.0370 mg/Kg 04/22/13 14:05 ND 0.250 Xylenes, Total 0.0335 mg/Kg 04/22/13 14:05

	мв мв				
Surrogate	%Recovery Qualit	fier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98	70 - 130		04/22/13 14:05	1
4-Bromofluorobenzene (Surr)	102	70 - 130		04/22/13 14:05	1
Dibromofluoromethane (Surr)	98	70 - 130		04/22/13 14:05	1
Toluene-d8 (Surr)	104	70 - 130		04/22/13 14:05	1

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-24495-1

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

Lab Sample ID: MB 490-74074/7

Matrix: Solid

Analysis Batch: 74074

Client	Sample	ID: Method	Blank

Prep Type: Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000670	mg/Kg			04/22/13 14:32	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			04/22/13 14:32	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			04/22/13 14:32	1
Toluene	ND		0.00200	0.000740	mg/Kg			04/22/13 14:32	1
Xylenes, Total	ND		0.00500	0.000670	mg/Kg			04/22/13 14:32	1

Surrogate	%Recovery Qualifier	Limits	Prepared Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104	70 - 130	04/22/13 14.	32 1
4-Bromofluorobenzene (Surr)	104	70 - 130	04/22/13 14	32 1
Dibromofluoromethane (Surr)	100	70 - 130	04/22/13 14	32 1
Toluene-d8 (Surr)	106	70 - 130	04/22/13 14	32 1

Lab Sample ID: LCS 490-74074/3

Matrix: Solid

Analysis Batch: 74074

Client Sample I	D: Lab Control Sample	
	Pren Type: Total/NA	

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.0500	0.05114		mg/Kg		102	75 - 127
Ethylbenzene	0.0500	0.05100		mg/Kg		102	80 - 134
Naphthalene	0.0500	0.05759		mg/Kg		115	69 - 150
Toluene	0.0500	0.05120		mg/Kg		102	80 - 132
Xylenes, Total	0.150	0.1566		mg/Kg		104	80 - 137

LCS LCS

MB MB

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
Toluene-d8 (Surr)	105		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 74074

Lab Sample ID: LCSD 490-74074/4

Analysis Batelli 14614	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.0500	0.05255		mg/Kg		105	75 - 127	3	50
Ethylbenzene	0.0500	0.05238		mg/Kg		105	80 - 134	3	50
Naphthalene	0.0500	0.05937		mg/Kg		119	69 - 150	3	50
Toluene	0.0500	0.05273		mg/Kg		105	80 - 132	3	50
Xylenes, Total	0.150	0.1601		mg/Kg		107	80 - 137	2	50

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
Toluene-d8 (Surr)	105		70 - 130

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-24495-1

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

Lab Sample ID: MB 490-73447/1-A

Matrix: Solid

Analysis Batch: 73484

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 73447

randiyoto Batom 10101	МВ	мв							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0100	mg/Kg		04/18/13 12:55	04/18/13 16:35	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		04/18/13 12:55	04/18/13 16:35	1
Anthracene	ND		0.0670	0.00900	mg/Kg		04/18/13 12:55	04/18/13 16:35	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		04/18/13 12:55	04/18/13 16:35	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		04/18/13 12:55	04/18/13 16:35	-1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		04/18/13 12:55	04/18/13 16:35	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		04/18/13 12:55	04/18/13 16:35	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		04/18/13 12:55	04/18/13 16:35	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		04/18/13 12:55	04/18/13 16:35	1
Pyrene	ND		0.0670	0.0120	mg/Kg		04/18/13 12:55	04/18/13 16:35	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		04/18/13 12:55	04/18/13 16:35	1
Chrysene	ND		0.0670	0.00900	mg/Kg		04/18/13 12:55	04/18/13 16:35	-1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		04/18/13 12:55	04/18/13 16:35	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg		04/18/13 12:55	04/18/13 16:35	1
Fluorene	ND		0.0670	0.0120	mg/Kg		04/18/13 12:55	04/18/13 16:35	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		04/18/13 12:55	04/18/13 16:35	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		04/18/13 12:55	04/18/13 16:35	1
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		04/18/13 12:55	04/18/13 16:35	1
	100								

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	64		29 - 120	04/18/13 12:55	04/18/13 16:35	1
Terphenyl-d14 (Surr)	87		13 - 120	04/18/13 12:55	04/18/13 16:35	1
Nitrobenzene-d5 (Surr)	66		27 - 120	04/18/13 12:55	04/18/13 16:35	1

Lab Sample ID: LCS 490-73447/2-A

Matrix: Solid

2-Methylnaphthalene

Analysis Batch: 73484

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 73447

Spike LCS LCS %Rec. Added Result Qualifier Unit %Rec Limits Analyte 38 - 120 1.67 1.263 76 Acenaphthylene mg/Kg 46 - 124 Anthracene 1.67 1.377 mg/Kg 83 1.67 1.317 79 45 - 120 Benzo[a]anthracene mg/Kg Benzo[a]pyrene 1.67 1.318 79 45 - 120 mg/Kg 42 - 120 1.301 78 Benzo[b]fluoranthene 1.67 mg/Kg Benzo[g,h,i]perylene 1.67 1.313 mg/Kg 79 38 - 120 42 - 120 Benzo[k]fluoranthene 1.67 1.372 mg/Kg 82 1.67 1.330 mg/Kg 80 32 - 120 1-Methylnaphthalene 43 - 120 Pyrene 1.67 1.361 mg/Kg 82 Phenanthrene 1.67 1.389 mg/Kg 83 45 - 120 1.374 43 - 120 Chrysene 1.67 mg/Kg 82 73 32 - 128 Dibenz(a,h)anthracene 1.67 1.222 mg/Kg Fluoranthene 1.67 1.346 mg/Kg 81 46 - 120 1.67 1.267 mg/Kg 76 42 - 120 Fluorene 1.67 1.281 mg/Kg 77 41 - 121 Indeno[1,2,3-cd]pyrene 1.218 73 32 - 120 Naphthalene 1.67 mg/Kg

1.67

Page 17 of 30

1.402

mg/Kg

84

28 - 120

TestAmerica Nashville

4/30/2013

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-24495-1

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

Lab Sample ID: LCS 490-73447/2-A

Matrix: Solid

Analysis Batch: 73484

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 73447

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	66	- Caramira	29 - 120
Terphenyl-d14 (Surr)	84		13 - 120
Nitrobenzene-d5 (Surr)	67		27 - 120

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 73447

Lab Sample ID: 490-24039-A-1-B MS Matrix: Solid

Analysis Batch: 73484

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Acenaphthylene	ND		1.85	1.302		mg/Kg	Ø	70	25 - 120	
Anthracene	0.0350	J	1.85	1.433		mg/Kg	D	75	28 - 125	
Benzo[a]anthracene	0.125		1.85	1.436		mg/Kg	-01	71	23 - 120	
Benzo[a]pyrene	0.129		1.85	1.412		mg/Kg	305	69	15 - 128	
Benzo[b]fluoranthene	0.161		1.85	1.486		mg/Kg	D	72	12 - 133	
Benzo[g,h,i]perylene	0.0772		1.85	1.349		mg/Kg	p	69	22 - 120	
Benzo[k]fluoranthene	0.0753		1.85	1.454		mg/Kg	33	74	28 - 120	
1-Methylnaphthalene	ND		1.85	1.299		mg/Kg	33	70	10 - 120	
Pyrene	0.230		1.85	1.667		mg/Kg	n	78	20 - 123	
Phenanthrene	0.125		1.85	1.493		mg/Kg	32	74	21 - 122	
Chrysene	0.132		1.85	1.478		mg/Kg	23	73	20 - 120	
Dibenz(a,h)anthracene	ND		1.85	1.258		mg/Kg	22	68	12 - 128	

1.426

1.321

1.285

1.116

1.331

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

64

71

60

72

10 - 143

20 - 120 22 - 121

10 - 120

13 - 120

Client Sample ID: Matrix Spike Duplicate

1.85

1.85

1.85

1.85

1.85

MS MS

0.232

ND

0.0666 J

ND

ND

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	56		29 - 120
Terphenyl-d14 (Surr)	87		13 - 120
Nitrobenzene-d5 (Surr)	52		27 - 120

Lab Sample ID: 490-24039-A-1-C MSD

Matrix: Solid

Fluoranthene

Naphthalene

Indeno[1,2,3-cd]pyrene

2-Methylnaphthalene

Fluorene

Analysis Batch: 73484									Prep	Batch:	73447
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthylene	ND		1.83	1.384		mg/Kg	33	76	25 - 120	6	50
Anthracene	0.0350	J	1.83	1.352		mg/Kg	n	72	28 - 125	6	49
Benzo[a]anthracene	0.125		1.83	1.404		mg/Kg	Œ	70	23 - 120	2	50
Benzo[a]pyrene	0.129		1.83	1.336		mg/Kg	n	66	15 - 128	5	50
Benzo[b]fluoranthene	0.161		1.83	1.479		mg/Kg	D	72	12 - 133	0	50
Benzo[g,h,i]perylene	0.0772		1.83	1.276		mg/Kg	n	65	22 - 120	6	50
Benzo[k]fluoranthene	0.0753		1.83	1.363		mg/Kg	22	70	28 - 120	6	45
1-Methylnaphthalene	ND		1.83	1.393		mg/Kg	322	76	10 - 120	7	50
Pyrene	0.230		1.83	1.600		mg/Kg	22	75	20 - 123	4	50
Phenanthrene	0.125		1.83	1.443		mg/Kg	322	72	21 - 122	3	50
Chrysene	0.132		1.83	1.390		ma/Ka	335	69	20 - 120	6	49

TestAmerica Nashville

Prep Type: Total/NA

Page 18 of 30

4/30/2013



Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-24495-1

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

MSD MSD

%Recovery Qualifier

57

79

62

Lab Sample ID: 490-24039-A-1-C MSD Matrix: Solid

Analysis Batch: 73484

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

		7.7		
Pre	рΒ	atc	h:	73447

Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
ND		1.83	1.233		mg/Kg	13	67	12 - 128	2	50
0.232		1.83	1.377		mg/Kg	n	62	10 - 143	4	50
ND		1.83	1.315		mg/Kg	12	72	20 - 120	0	50
0.0666	J	1.83	1.218		mg/Kg	n	63	22 - 121	5	50
ND		1.83	1.253		mg/Kg	n	68	10 - 120	12	50
ND		1.83	1.374		mg/Kg	32	75	13 - 120	3	50
	Result	0.232 ND 0.0666 J ND	Result Qualifier Added ND 1.83 0.232 1.83 ND 1.83 0.0666 J 1.83 ND 1.83	Result Qualifier Added Result ND 1.83 1.233 0.232 1.83 1.377 ND 1.83 1.315 0.0666 J 1.83 1.218 ND 1.83 1.253	Result Qualifier Added Result Qualifier ND 1.83 1.233 0.232 1.83 1.377 ND 1.83 1.315 0.0666 J 1.83 1.218 ND 1.83 1.253	Result Qualifier Added Result Qualifier Unit ND 1.83 1.233 mg/Kg 0.232 1.83 1.377 mg/Kg ND 1.83 1.315 mg/Kg 0.0666 J 1.83 1.218 mg/Kg ND 1.83 1.253 mg/Kg	Result Qualifier Added Result Qualifier Unit D ND 1.83 1.233 mg/Kg mg	Result Qualifier Added Result Qualifier Unit D %Rec ND 1.83 1.233 mg/Kg 1 67 0.232 1.83 1.377 mg/Kg 1 62 ND 1.83 1.315 mg/Kg 1 72 0.0666 J 1.83 1.218 mg/Kg 1 63 ND 1.83 1.253 mg/Kg 1 68	Result Qualifier Added Result Qualifier Unit D %Rec Limits ND 1.83 1.233 mg/Kg 5 67 12 - 128 0.232 1.83 1.377 mg/Kg 5 62 10 - 143 ND 1.83 1.315 mg/Kg 5 72 20 - 120 0.0666 J 1.83 1.218 mg/Kg 5 63 22 - 121 ND 1.83 1.253 mg/Kg 5 68 10 - 120	Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD ND 1.83 1.233 mg/Kg II 67 12 - 128 2 0.232 1.83 1.377 mg/Kg II 62 10 - 143 4 ND 1.83 1.315 mg/Kg II 72 20 - 120 0 0.0666 J 1.83 1.218 mg/Kg II 63 22 - 121 5 ND 1.83 1.253 mg/Kg II 68 10 - 120 12

Limits

29 - 120

13 - 120

27 - 120

Client Sample ID: Duplicate

Prep Type: Total/NA

Method: Moisture - Percent Moisture

Lab Sample ID: 490-24492-A-21 DU

Matrix: Solid

Surrogate

2-Fluorobiphenyl (Surr)

Nitrobenzene-d5 (Surr)

Terphenyl-d14 (Surr)

Analysis Batch: 73396

7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Percent Solids	89		89		%		0.06	20

Page 19 of 30

QC Association Summary

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-24495-1

22

GC/MS VOA

Prep Batch: 73253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-24495-1	1433 Dove	Total/NA	Solid	5035	
490-24495-2	1435-2 Dove	Total/NA	Solid	5035	
490-24495-6	1418 Albatross	Total/NA	Solid	5035	

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Prep Batch: 73254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-24495-1	1433 Dove	Total/NA	Solid	5035	
490-24495-2	1435-2 Dove	Total/NA	Solid	5035	
490-24495-3	590 Aster	Total/NA	Solid	5035	
490-24495-4	642 Dahlia-2	Total/NA	Solid	5035	
490-24495-5	1422 Albatross	Total/NA	Solid	5035	
490-24495-6	1418 Albatross	Total/NA	Solid	5035	
490-24495-7	591 Aster	Total/NA	Solid	5035	
490-24495-8	434 Elderberry	Total/NA	Solid	5035	



Prep Batch: 73519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-24512-C-6-B MS	Matrix Spike	Total/NA	Solid	5035	
490-24512-C-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

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Analysis Batch: 73618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-24495-1	1433 Dove	Total/NA	Solid	8260B	73254
490-24495-2	1435-2 Dove	Total/NA	Solid	8260B	73254
490-24495-4	642 Dahlia-2	Total/NA	Solid	8260B	73254
490-24495-5	1422 Albatross	Total/NA	Solid	8260B	73254
490-24495-6	1418 Albatross	Total/NA	Solid	8260B	73254
490-24495-8	434 Elderberry	Total/NA	Solid	8260B	73254
490-24512-C-6-B MS	Matrix Spike	Total/NA	Solid	8260B	73519
490-24512-C-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	73519
LCS 490-73618/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-73618/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-73618/7	Method Blank	Total/NA	Solid	8260B	

13

Analysis Batch: 74074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-24495-1	1433 Dove	Total/NA	Solid	8260B	73253
490-24495-2	1435-2 Dove	Total/NA	Solid	8260B	73253
490-24495-2	1435-2 Dove	Total/NA	Solid	8260B	73253
490-24495-3	590 Aster	Total/NA	Solid	8260B	73254
490-24495-6	1418 Albatross	Total/NA	Solid	8260B	73253
490-24495-7	591 Aster	Total/NA	Solid	8260B	73254
LCS 490-74074/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-74074/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-74074/6	Method Blank	Total/NA	Solid	8260B	
MB 490-74074/7	Method Blank	Total/NA	Solid	8260B	

QC Association Summary

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-24495-1

GC/MS Semi VOA

Prep	Batch:	7344
------	--------	------

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-24039-A-1-B MS	Matrix Spike	Total/NA	Solid	3550C	
490-24039-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	
490-24495-1	1433 Dove	Total/NA	Solid	3550C	
490-24495-2	1435-2 Dove	Total/NA	Solid	3550C	
490-24495-3	590 Aster	Total/NA	Solid	3550C	
490-24495-4	642 Dahlia-2	Total/NA	Solid	3550C	
490-24495-5	1422 Albatross	Total/NA	Solid	3550C	
490-24495-6	1418 Albatross	Total/NA	Solid	3550C	
490-24495-7	591 Aster	Total/NA	Solid	3550C	
490-24495-8	434 Elderberry	Total/NA	Solid	3550C	
LCS 490-73447/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-73447/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 73484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-24039-A-1-B MS	Matrix Spike	Total/NA	Solid	8270D	73447
490-24039-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8270D	73447
490-24495-1	1433 Dove	Total/NA	Solid	8270D	73447
490-24495-2	1435-2 Dove	Total/NA	Solid	8270D	73447
490-24495-3	590 Aster	Total/NA	Solid	8270D	73447
490-24495-4	642 Dahlia-2	Total/NA	Solid	8270D	73447
490-24495-5	1422 Albatross	Total/NA	Solid	8270D	73447
490-24495-6	1418 Albatross	Total/NA	Solid	8270D	73447
490-24495-7	591 Aster	Total/NA	Solid	8270D	73447
490-24495-8	434 Elderberry	Total/NA	Solid	8270D	73447
LCS 490-73447/2-A	Lab Control Sample	Total/NA	Solid	8270D	73447
MB 490-73447/1-A	Method Blank	Total/NA	Solid	8270D	73447

Analysis Batch: 73722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-24495-1	1433 Dove	Total/NA	Solid	8270D	73447
490-24495-2	1435-2 Dove	Total/NA	Solid	8270D	73447
490-24495-6	1418 Albatross	Total/NA	Solid	8270D	73447

General Chemistry

Analysis Batch: 73396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-24492-A-21 DU	Duplicate	Total/NA	Solid	Moisture	
490-24495-1	1433 Dove	Total/NA	Solid	Moisture	
490-24495-2	1435-2 Dove	Total/NA	Solid	Moisture	
190-24495-3	590 Aster	Total/NA	Solid	Moisture	
490-24495-4	642 Dahlia-2	Total/NA	Solid	Moisture	
190-24495-5	1422 Albatross	Total/NA	Solid	Moisture	
190-24495-6	1418 Albatross	Total/NA	Solid	Moisture	
190-24495-7	591 Aster	Total/NA	Solid	Moisture	
190-24495-8	434 Elderberry	Total/NA	Solid	Moisture	

Page 21 of 30

Lab Chronicle

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

Date Received: 04/17/13 08:30

TestAmerica Job ID: 490-24495-1

Н

Client Sample ID: 1433 Dove

Lab Sample ID: 490-24495-1

Date Collected: 04/08/13 15:30

Matrix: Solid

Matrix: Solid Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			73254	04/17/13 20:15	ML	TAL NSH
Total/NA	Analysis	8260B		-1	73618	04/19/13 16:28	МН	TAL NSH
Total/NA	Prep	5035			73253	04/17/13 20:10	ML	TAL NSH
Total/NA	Analysis	8260B		2	74074	04/22/13 23:44	МН	TAL NSH
Total/NA	Prep	3550C			73447	04/18/13 12:55	JP	TAL NSH
Total/NA	Analysis	8270D		1	73484	04/18/13 20:17	KP	TAL NSH
Total/NA	Prep	3550C			73447	04/18/13 12:55	JP	TAL NSH
Total/NA	Analysis	8270D		4	73722	04/19/13 18:06	KP	TAL NSH
Total/NA	Analysis	Moisture		1	73396	04/18/13 11:20	RS	TAL NSH

Client Sample ID: 1435-2 Dove

Date Collected: 04/09/13 15:30 Date Received: 04/17/13 08:30 Lab Sample ID: 490-24495-2

Matrix: Solid Percent Solids: 80.3

EE

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			73254	04/17/13 20:15	ML	TAL NSH
Total/NA	Analysis	8260B		1	73618	04/19/13 16:55	МН	TAL NSH
Total/NA	Prep	5035			73253	04/17/13 20:10	ML	TAL NSH
Total/NA	Analysis	8260B		1	74074	04/22/13 17:25	МН	TAL NSH
Total/NA	Prep	5035			73253	04/17/13 20:10	ML	TAL NSH
Total/NA	Analysis	8260B		20	74074	04/22/13 17:52	МН	TAL NSH
Total/NA	Prep	3550C			73447	04/18/13 12:55	JP	TAL NSH
Total/NA	Analysis	8270D		1	73484	04/18/13 20:39	KP	TAL NSH
Total/NA	Prep	3550C			73447	04/18/13 12:55	JP	TAL NSH
Total/NA	Analysis	8270D		2	73722	04/19/13 18:28	KP	TAL NSH
Total/NA	Analysis	Moisture		1	73396	04/18/13 11:20	RS	TAL NSH

Client Sample ID: 590 Aster

Date Collected: 04/10/13 14:15 Date Received: 04/17/13 08:30 Lab Sample ID: 490-24495-3

Matrix: Solid Percent Solids: 95.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			73254	04/17/13 20:15	ML	TAL NSH
Total/NA	Analysis	8260B		1	74074	04/22/13 16:04	МН	TAL NSH
Total/NA	Prep	3550C			73447	04/18/13 12:55	JP	TAL NSH
Total/NA	Analysis	8270D		1	73484	04/18/13 21:02	KP	TAL NSH
Total/NA	Analysis	Moisture		1	73396	04/18/13 11:20	RS	TAL NSH

Lab Chronicle

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-24495-1

Client Sample ID: 642 Dahlia-2

Client Sample ID: 1422 Albatross

Date Collected: 04/08/13 13:45

Date Received: 04/17/13 08:30

Date Collected: 04/11/13 14:15 Date Received: 04/17/13 08:30

Lab Sample ID: 490-24495-4

Matrix: Solid

Percent Solids: 79.4

	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Prep	5035			73254	04/17/13 20:15	ML	TAL NSH	
Total/NA	Analysis	8260B		1	73618	04/19/13 17:49	МН	TAL NSH	
Total/NA	Prep	3550C			73447	04/18/13 12:55	JP	TAL NSH	
Total/NA	Analysis	8270D		1	73484	04/18/13 21:24	KP	TAL NSH	
Total/NA	Analysis	Moisture		1	73396	04/18/13 11:20	RS	TAL NSH	

Lab Sample ID: 490-24495-5

Matrix: Solid

Percent Solids: 76.3

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			73254	04/17/13 20:15	ML	TAL NSH
Total/NA	Analysis	8260B		1	73618	04/19/13 18:16	МН	TAL NSH
Total/NA	Prep	3550C			73447	04/18/13 12:55	JP	TAL NSH
Total/NA	Analysis	8270D		1	73484	04/18/13 21:46	KP	TAL NSH
Total/NA	Analysis	Moisture		1	73396	04/18/13 11:20	RS	TAL NSH

Client Sample ID: 1418 Albatross

Date Collected: 04/09/13 15:30

Date Received: 04/17/13 08:30

Lab Sample ID: 490-24495-6

Matrix: Solid

Percent Solids: 77.0

Dan Ton	Batch	Batch Method	D	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Prep Type	Туре		Run	ractor	0.1,40,10,10,10	1 27 75 75 75 75 75 75 75 75 75 75 75 75 75	20110	
Total/NA	Prep	5035			73254	04/17/13 20:15	ML	TAL NSH
Total/NA	Analysis	8260B		1	73618	04/19/13 18:43	МН	TAL NSH
Total/NA	Prep	5035			73253	04/17/13 20:10	ML	TAL NSH
Total/NA	Analysis	8260B		1	74074	04/22/13 18:19	MH	TAL NSH
Total/NA	Prep	3550C			73447	04/18/13 12:55	JP	TAL NSH
Total/NA	Analysis	8270D		1	73484	04/18/13 22:08	KP	TAL NSH
Total/NA	Prep	3550C			73447	04/18/13 12:55	JP	TAL NSH
Total/NA	Analysis	8270D		2	73722	04/19/13 18:50	KP	TAL NSH
Total/NA	Analysis	Moisture		1	73396	04/18/13 11:20	RS	TAL NSH

Client Sample ID: 591 Aster

Date Collected: 04/10/13 14:45

Date Received: 04/17/13 08:30

Lab Sample ID: 490-24495-7

Matrix: Solid

Percent Solids: 96.7

and the same of	Batch	Batch		Dilution	Batch	Prepared	27.44	2.2
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			73254	04/17/13 20:15	ML	TAL NSH
Total/NA	Analysis	8260B		1	74074	04/22/13 16:31	МН	TAL NSH
Total/NA	Prep	3550C			73447	04/18/13 12:55	JP	TAL NSH
Total/NA	Analysis	8270D		1	73484	04/18/13 22:30	KP	TAL NSH
Total/NA	Analysis	Moisture		1	73396	04/18/13 11:20	RS	TAL NSH

Lab Chronicle

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

TestAmerica Job ID: 490-24495-1

Client Sample ID: 434 Elderberry

Date Collected: 04/11/13 11:45 Date Received: 04/17/13 08:30 Lab Sample ID: 490-24495-8

Matrix: Solid

Percent Solids: 81.2

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			73254	04/17/13 20:15	ML	TAL NSH
Total/NA	Analysis	8260B		1	73618	04/19/13 19:37	МН	TAL NSH
Total/NA	Prep	3550C			73447	04/18/13 12:55	JP	TAL NSH
Total/NA	Analysis	8270D		1	73484	04/18/13 22:52	KP	TAL NSH
Total/NA	Analysis	Moisture		1	73396	04/18/13 11:20	RS	TAL NSH

Laboratory References:

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

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Method Summary

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

TestAmerica Job ID: 490-24495-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Certification Summary

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-24495-1

2

Laboratory: TestAmerica Nashville

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

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

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



COOLER RECEIPT FORM

Charleston



490-24	of Cust	

Cooler Received/Opened On4/17/2013 @ 0830	490-24495 Chain at 6
1. Tracking #(last 4 digits, FedEx)	490-24495 Chain of C
Courier:FedEx IR Gun ID97310166 7	4
2. Temperature of rep. sample or temp blank when opened:	
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank froze	on? YES NONA
4. Were custody seals on outside of cooler?	YESNONA
If yes, how many and where: I Front + Back	
5. Were the seals intact, signed, and dated correctly?	VES NONA
6. Were custody papers inside cooler?	€E8NONA
certify that I opened the cooler and answered questions 1-6 (intial)	
7. Were custody seals on containers: YES and Intact	YESNO
Were these signed and dated correctly?	YESNO
8. Packing mat'l used? Pubblewap Plastic bag Peanuts Vermiculite Foam Insert Pa	per Other None
9. Cooling process: (ce lce-pack lce (direct contact) Dry	ice Other None
10. Did all containers arrive in good condition (unbroken)?	YESNONA
11. Were all container labels complete (#, date, signed, pres., etc)?	ENONA
12. Did all container labels and tags agree with custody papers?	E3NONA
13a. Were VOA vials received?	(E)NONA
b. Was there any observable headspace present in any VOA vial?	YESNONA
14. Was there a Trip Blank in this cooler? YES NONA If multiple coolers, sequ	ence #_WA
certify that I unloaded the cooler and answered questions 7-14 (intial)	P
15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH leve	el? YESNO
b. Did the bottle labels indicate that the correct preservatives were used	(E)NONA
16. Was residual chlorine present?	YESNO(NA
certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intia	(i) Ø>
17. Were custody papers properly filled out (ink, signed, etc)?	EsNONA
	XESNONA
18. Did you sign the custody papers in the appropriate place?	(LSNONA
19. Were correct containers used for the analysis requested?	PBSNONA
	2
19. Were correct containers used for the analysis requested?	€6NONA

	Relinguished by:	Reliance)	Special Instructions:				+ 642 Dah/i	2 590 As	* 1935BJ0	1453 DO	24495 Sample ID / Description	Loc: 490	Sam	Sample	Telep	P			Client Na	THE LEADER IN ENV
	/ Dafe Time	4/16/13 0900						4-2 41/1/3/4/5 5 X	X S514181/0/19 X2+	VE 9/6/13/5305X	8/8/3 1530 5 X	Date Sampled Time Sampled No. of Containers Shipped	7/	Sampler Signature:	Sampler Name: (Print) (Mr)5 Tymstell	Telephone Number: 843.412.2097	Project Manager: Tom McElwee email: moelwee@eeginc.net	City/State/Zip: Ladson, SC 29456	Address: 10179 Highway 78	Client Name/Account #: EEG - SBG # 2449	THE LEADER IN ENVIRONMENTAL TESTING Nashville, TN 37204
C-6.	Received by TestAmerica: (NAV) + (N)(3)	Received by: TROKY	ethod of Shipment:					22		درد	고 고 고	Composite Field Filtered ice HNO ₃ (Red Label) HCL(Pau-Lebal) NaOH (Orange Label) H ₂ SO ₄ Plastic (Yellow Label) None (Black Label) Other (Specify) Wastewater Wastewater Drinking Water Studge	eservative	d		Fax No.: 843-879 -0401	377				Phone: 615-726-0177 roll Free: 800-765-0980 Fax: 615-726-3404
`	08%	Time		Laboratory Comments:			-	x	× × ×	~	×××	Soil Other (specify): BTEX + Napth - 8260 PAH - 8270D	Analyze For:	Project #:	Project ID: Laurel Bay Housing Project	TA Quote #:	PO# 1033	Site State: SC	Enforcement Action?	Compliance Monitoring?	To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
			≺ z									RUSH TAT (Pre-Schedule Standard TAT Fax Results	0						Yes No	Yes No	

B613

4/30/2013

Relifiquished by:	Relinquished by	Special Instructions:				1	434 E	7 591 AST	1418 411	5 1422 All	Sample ID / Description	24495	Loc: 490	Sam	Te				Client	THE LEADER IN ENVIRONMENTAL TESTING
	bash	1				/	Idensianay 4	tan 4	9	4 Espata			ampler Signature:	Sampler Name: (Print)	Telephone Number: 843.412.2097	Project Manager: Tom McElwee email: mcelwee@eeginc.net	City/State/Zip: Ladson, SC 29456	Address: 10179 Highway 78	Client Name/Account #: EEG - SBG # 2449	WIRONMENTAL TE
Date	1/16/13					,,,	1111131145	10113 1445	19/13 1530	8/13 1345	Date Sampled Time Sampled	1	Krash	PROH	412 2097	McElwee email: moels	on, SC 29456	9 Highway 78	- SBG # 2449	
Time Received	O'MO FE				1	,	5 X	X 5,	57 ×	× 5	No. of Containers Shippe Grab Composite Field Filtered	ed	1	Show		wee@eeginc.net				2960 Foster Creighton Nashville, TN 37204
by TestAmerica:	EORK	Method of Shipment:		-					N	λ	NaOH (Orange Label) H ₂ SO ₄ Plastic (Yellow Label) H ₂ SO ₄ Glass(Yellow Label)	esen			Fax No : 843-8					Toll Free: 800-765-0980 Fax: 615-726-3404
Solution AND	Date	1					2	2 5	7	2)	None (Black Label) Other (Specity) Moffley Groundwater Wastewater Drinking Water Skudge Soil	Matrix			843-879-0401					765-0980 726-3404
O \$ 3p	Time						XXX	7	X X	X X X	Other (specify): BTEX + Napth - 826 PAH - 8270D	501	Project #:	Project ID: La	TA Quote #:	PO#:	Site State: SC			re _c
		Laboratory Comments: Temperature Upon Receipt VOCs Free of Headspace?										Analyze For:		Project ID: Laurel Bay Housing Project		1035	C	Enforcement Action?	Compliance Monitoring?	methods, is this work being conducted for regulatory purposes?
		~									RUSH TAT (Pre-Schedu Standard TAT	ile)						Yes No	YesNo	
		z						E	ag	e 2	Fax Results Send CC with report							186 82	13	

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4/30/2013

Login Sample Receipt Checklist

Job Number: 490-24495-1

List Source: TestAmerica Nashville

Client: Environmental Enterprise Group

Containers requiring zero headspace have no headspace or bubble is

Login Number: 24495 List Number: 1

Creator: Buckingham, Paul

Creator: Buckingham, Paul		
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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	

N/A

True

True N/A

<6mm (1/4").

Multiphasic samples are not present.

Residual Chlorine Checked.

Samples do not require splitting or compositing.

ATTACHMENT A



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EF	PA ID No.	Manifest Doc	No.	2. Page 1				
					1				
3. Generator's Mailing Address: MCAS BEAUFORT	Ger	nerator's Site Addre	SS (If different than n	nailing):	100	st Number	01519	146	
LAUREL BAY HOUSING BEAUFORT, SC 29904	270.0411					2.5% A. D. C.	Generator's		
4. Generator's Phone 843-8 5. Transporter 1 Company Name	379-0411	6. US I	PA ID Number						
Smart An S	1	6. 031	PA ID Number		C State T	ransporter's I	D	_	
Prince of Contract Prince Contract Cont	14-4					orter's Phone			
7. Transporter 2 Company Name		8. US I	PA ID Number		10000		2000		-
					E. State Ti	ransporter's I	0		
					F. Transpo	orter's Phone			101
9. Designated Facility Name and Site	e Address	10. US	EPA ID Number						
HICKORY HILL LANDFILL					G. State F	acility ID			
2621 LOW COUNTRY DRIVE					H. State F	acility Phone	843-9	87-4643	3
RIDGELAND, SC 29936									
10 10 10 10 10 10 10 10 10 10 10 10 10 1			12.00	ontainers	13. Total	14. Unit			
11. Description of Waste Materials			No.	Type	Quantity	Wt./Vol.		isc. Comment	15
a. HEATING OIL TANK FILLED	WITH SAND			100	Line I		711		
			1	3-4	16-21	100	7061	06	
WM Pro	file # 102655SC			1		4			
h.							n a		
WM Profile #									
c.									
WM Profile #									
d.									
WM Profile #			4.4.						
J. Additional Descriptions for Mate	rials Listed Above		K. Dispo	sal Location					
			Cell				Level		
			Grid .		_		Level		-
15. Special Handling Instructions and	Additional Information	190 Ast		64	2 Du	Lha			
D 591 Aste	11 3)4	134 IZ/d	REBER	15	171	S CHI	dia.	1	
Purchase Order #	-		Y CONTACT / PH		112	CAIL	CIPA	1	
16. GENERATOR'S CERTIFICATE:									
I hereby certify that the above-descr	ibed materials are not h	nazardous wastes as	defined by 40 C	FR Part 261	or any applic	able state lav	w, have beer	fully and	
accurately described, classified and p									
Printed Name	1 7	Signature "On	behalf of"	1			Month	Day	Year
0.0.0	10/65/7			11/			1 4	16	17.2
17. Transporter 1 Acknowledgemen Printed Name	t of Receipt of Materials	Signature	1 1	101			Month	Day	Year
Part	H ShAN	Signature	79/1	4			4	16	/-
18. Transporter 2 Acknowledgemen	t of Receipt of Materials	s	1.0.7	1			7	/	
Printed Name		Signature	//	7			Month	Day	Year
Anna Bald	\	Ch.	F	3000	11		41	18	13
19. Certificate of Final Treatment/D	isposal	1	rneg +	, core			1		
I certify, on behalf of the above lister		t to the best of my k	nowledge, the a	bove-descri	bed waste w	as managed i	n complianc	e with all	
applicable laws, regulations, permits			and a second			Bed			
20. Facility Owner or Operator: Cer			ials covered by t	his manifest					
Printed Name	- V	Signature		: 1			Month	Day	Year
TON. COTTE	10	6000	Colo	12			4	13	13
White-TREATMENT, STORAGE, DISP	OSAL FACILITY COPY	Blue- GENERA	ATOR #2 COPY		Ye	llow- GENERA	ATOR #1 COL	ργ	

Pink- FACILITY USE ONLY

Gold-TRANSPORTER #1 COPY

Appendix C Regulatory Correspondence





March 9, 2017

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

RE:

Tank Removal Report 434 Elderberry Drive, October 2013 and Draft Final Groundwater Assessment Report June and July 2016

Dear Mr. Drawdy:

The South Carolina Department of Health and Environmental Control (the Department) received groundwater data from permanent monitoring well installations in the Draft Final Groundwater Assessment Report June and July 2016, Laurel Bay Military Housing Area for the addresses shown in the attachment. The Department also reviewed the tank removal report for 434 Elderberry. The tank was removed in 2013. 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 tank removal report for 434 Elderberry Drive indicates no soil contamination was found on the property. No Further investigation is required at this time at 434 Elderberry Drive.

Per the Department's request, groundwater samples were collected from the attached referenced addresses. The Department reviewed the groundwater data and previous investigations and it agrees with the conclusions and recommendations included in the document. To further assess the impact to groundwater, groundwater monitoring should begin at the fifteen stated addresses. For the remaining twelve addresses, there is no indication of contamination on the property and therefore no further investigation is required at this time.

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

If you have any questions, please contact me at petruslb@dhec.sc.gov or 803-898-0294.

Sincerely,

28 pot

Laurel Petrus, Environmental Engineer Associate

Bureau of Land and Waste Management

Cc: Russell Berry, EQC Region 8

Shawn Dolan, Resolution Consultants Bryan Beck, NAVFAC MIDLANT Attachment to: Petrus to Drawdy Dated March 9, 2017

Draft Final Initial Groundwater Assessment Report for (27 addresses)

273 Birch Drive	456 Elderberry Drive
325 Ash Steet	458 Elderberry Drive
326 Ash Street	648 Dahlia Drive
330 Ash Street	650 Dahlia Drive
336 Ash Street	1132 Iris Lane
343 Ash Street	1144 Iris Lane
353 Ash Street	1148 Iris Lane
440 Elderberry Drive	
No Further Action recommendation (
430 Elderberry Drive	647 Dahlia Drive
430 Elderberry Drive 468 Dogwood Drive	647 Dahlia Drive 652 Dahlia Drive
430 Elderberry Drive 468 Dogwood Drive 518 Laurel Bay Blvd	647 Dahlia Drive 652 Dahlia Drive 760 Althea Street
430 Elderberry Drive 468 Dogwood Drive	647 Dahlia Drive 652 Dahlia Drive

Tank Removal Report October 2013 (1 address)

No Further Action 434 Elderberry Drive