SUMMARY REPORT
384 WEST CARDINAL LANE (FORMERLY 1355 WEST CARDINAL LANE)
LAUREL BAY MILITARY HOUSING AREA
MARINE CORPS AIR STATION BEAUFORT
BEAUFORT, SC

Revision: 0 Prepared for:

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

and



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

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Prepared by:



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

Contract Number: N62470-14-D-9016

CTO WE52

JUNE 2021



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List of Acronyms

bgs below ground surface

BTEX benzene, toluene, ethylbenzene, and xylenes

CTO Contract Task Order

COPC constituents of potential concern

IDIQ Indefinite Delivery, Indefinite Quantity

IGWA Initial Groundwater Assessment

JV Joint Venture

LBMH Laurel Bay Military Housing MCAS Marine Corps Air Station

NAVFAC Mid-Lant Naval Facilities Engineering Command Mid-Atlantic

NFA No Further Action

PAH polynuclear aromatic hydrocarbon

QAPP Quality Assurance Program Plan

RBSL risk-based screening level

SCDHEC South Carolina Department of Health and Environmental Control

Site LBMH area at MCAS Beaufort, South Carolina

UST underground storage tank

VISL vapor intrusion screening level



1.0 INTRODUCTION

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

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

This report summarizes the results the environmental investigation activities associated with the storage of home heating oil and the potential release of petroleum constituents at the referenced property. Based on the results of the investigation, a No Further Action (NFA) determination has been made by the South Carolina Department of Health and Environmental Control (SCDHEC) for 384 West Cardinal Lane (Formerly 1355 West Cardinal Lane). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

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

1.1 Background Information

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



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

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

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

1.2 UST Removal and Assessment Process

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

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

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



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

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

2.0 SAMPLING ACTIVITIES AND RESULTS

The following section presents the sampling activities and associated results for 384 West Cardinal Lane (Formerly 1355 West Cardinal Lane). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 1355 West Cardinal Lane* (MCAS Beaufort, 2013). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On September 20, 2012, a single 280 gallon heating oil UST was removed from the front yard adjacent to the porch area at 384 West Cardinal Lane (Formerly 1355 West Cardinal Lane). The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). The UST was removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of the UST was 5'8" bgs and a single soil sample was



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

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

2.2 Soil Analytical Results

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

The soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form (Appendix B). The results of the soil sampling at the former UST location were used by MCAS Beaufort, in consultation with SCDHEC, to determine a path forward (i.e., additional sampling or NFA) for the property. The soil results collected from 384 West Cardinal Lane (Formerly 1355 West Cardinal Lane) were less than the SCDHEC RBSLs, which indicated the subsurface was not impacted by COPCs associated with the former UST at concentrations that presented a potential risk to human health and the environment.

3.0 PROPERTY STATUS

Based on the analytical results for soil, SCDHEC made the determination that NFA was required for 384 West Cardinal Lane (Formerly 1355 West Cardinal Lane). This NFA determination was obtained in a letter dated May 15, 2014. SCDHEC's NFA letter is provided in Appendix C.

4.0 REFERENCES

Marine Corps Air Station Beaufort, 2013. South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 1355 West Cardinal Lane, Laurel Bay Military Housing Area, February 2013.

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



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

Table



Table 1

Laboratory Analytical Results - Soil 384 West Cardinal Lane (Formerly 1355 West Cardinal Lane)

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

Constituent	SCDHEC RBSLs (1)	Results Sample Collected 09/20/12						
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)								
Benzene	0.003	ND						
Ethylbenzene	1.15	ND						
Naphthalene	0.036	ND						
Toluene	0.627	0.000965						
Xylenes, Total	13.01	ND						
Semivolatile Organic Compounds Ana	lyzed by EPA Method 8270D (mg/kg)							
Benzo(a)anthracene	0.66	ND						
Benzo(b)fluoranthene	0.66	ND						
Benzo(k)fluoranthene	0.66	ND						
Chrysene	0.66	ND						
Dibenz(a,h)anthracene	0.66	ND						

Notes:

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

mg/kg - milligram per kilogram

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

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

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

Appendix A Multi-Media Selection Process for LBMH





Appendix A - Multi-Media Selection Process for LBMH

Appendix B UST Assessment Report



Attachment 1

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

Date Received State Use Only

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

I. OWNERSHIP OF UST (S)

MCAS Beaufort, Co	ommanding Officer Attn: NR	EAO (Craiq Ehde)						
	Owner Name (Corporation, Individual, Public Agency, Other)							
P.O. Box 55001 Mailing Address								
Beaufort,	South Carolina	29904-5001						
City	State	Zip Code						
843	228-7317	Craig Ehde						
Area Code	Telephone Number	Contact Person						

II. SITE IDENTIFICATION AND LOCATION

Permit I.D. #
Laurel Bay Military Housing Area, Marine Corps Air Station, Beaufort, SC
Facility Name or Company Site Identifier
1355 Cardinal Lane, Laurel Bay Military Housing Area
Street Address or State Road (as applicable)
Beaufort, Beaufort
City County

Attachment 2

III. INSURANCE INFORMATION

Insurance Statement
The petroleum release reported to DHEC on at Permit ID Number may qualify to receive state monies to pay for appropriate site rehabilitation activities. Before participation is allowed in the State Clean-up fund, written confirmation of the existence or non-existence of an environmental insurance policy is required. This section must be completed.
Is there now, or has there ever been an insurance policy or other financial mechanism that covers this UST release? YES NO (check one)
If you answered YES to the above question, please complete the following information:
My policy provider is: The policy deductible is: The policy limit is:
If you have this type of insurance, please include a copy of the policy with this report.
IV. REQUEST FOR SUPERB FUNDING I DO / DO NOT wish to participate in the SUPERB Program. (Circle one.)
V. CERTIFICATION (To be signed by the UST owner)
I certify that I have personally examined and am familiar with the information submitted in this and all attached documents; and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.
Name (Type or print.)
Signature
To be completed by Notary Public:
Sworn before me this day of, 20
(Name)
Notary Public for the state of Please affix State seal if you are commissioned outside South Carolina

1355 Cardinal
Heating oil
280 gal
Late 1950s
Steel
Mid 80s
5'8"
No
No
Removed
9/20/2012
Yes
Yes
the ground (attach disposal manifests) From the ground and disposed
ee Attachment "A".
dges, or wastewaters removed from the USTs (at

VII. PIPING INFORMATION

	Cardinal
	Steel
Construction Material (ev. Steel EDD)	& 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
Age If any corrosion, pitting, or holes were observed, or	<u> </u>
If any corrosion, pitting, or holes were observed,	describe the location and extent for each piping
If any corrosion, pitting, or holes were observed, or Corrosion and pitting were found	describe the location and extent for each piping
If any corrosion, pitting, or holes were observed,	describe the location and extent for each piping
If any corrosion, pitting, or holes were observed, or Corrosion and pitting were found	describe the location and extent for each piping
If any corrosion, pitting, or holes were observed, or Corrosion and pitting were found	describe the location and extent for each piping
If any corrosion, pitting, or holes were observed, or corrosion and pitting were foun pipe. Copper supply and return	describe the location and extent for each piping d on the surface of the steel ve
Corrosion and pitting were foun pipe. Copper supply and return	describe the location and extent for each piping d on the surface of the steel ve lines were sound.
Corrosion and pitting were foun pipe. Copper supply and return VIII. BRIEF SITE DESCR The USTs at the residences are of	describe the location and extent for each piping d on the surface of the steel ve lines were sound. IPTION AND HISTORY constructed of single wall steel
Corrosion and pitting were foun pipe. Copper supply and return	describe the location and extent for each piping d on the surface of the steel ve lines were sound. IPTION AND HISTORY constructed of single wall steel for heating. These USTs were
Corrosion and pitting were foun pipe. Copper supply and return VIII. BRIEF SITE DESCR The USTs at the residences are and formerly contained fuel oil	describe the location and extent for each piping d on the surface of the steel ve lines were sound. IPTION AND HISTORY constructed of single wall steel for heating. These USTs were
Corrosion and pitting were foun pipe. Copper supply and return VIII. BRIEF SITE DESCR The USTs at the residences are and formerly contained fuel oil	describe the location and extent for each piping d on the surface of the steel ve lines were sound. IPTION AND HISTORY constructed of single wall steel for heating. These USTs were
Corrosion and pitting were foun pipe. Copper supply and return VIII. BRIEF SITE DESCR The USTs at the residences are and formerly contained fuel oil	describe the location and extent for each piping d on the surface of the steel ve lines were sound. IPTION AND HISTORY constructed of single wall steel for heating. These USTs were
Corrosion and pitting were foun pipe. Copper supply and return VIII. BRIEF SITE DESCR The USTs at the residences are and formerly contained fuel oil	describe the location and extent for each piping d on the surface of the steel ve lines were sound. IPTION 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,		Х	
If yes, indicate location on site map and describe the odor (strong, mild, etc.)			
C. Was water present in the UST excavation, soil borings, or trenches?		Х	
If yes, how far below land surface (indicate location and depth)?			
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?		х	
If yes, indicate location and thickness.			

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#
1355 Cardinal	Excav at fill end	Soil	Sandy	5'8"	9/20/12 1355 hrs	P. Shaw	
og armar							
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

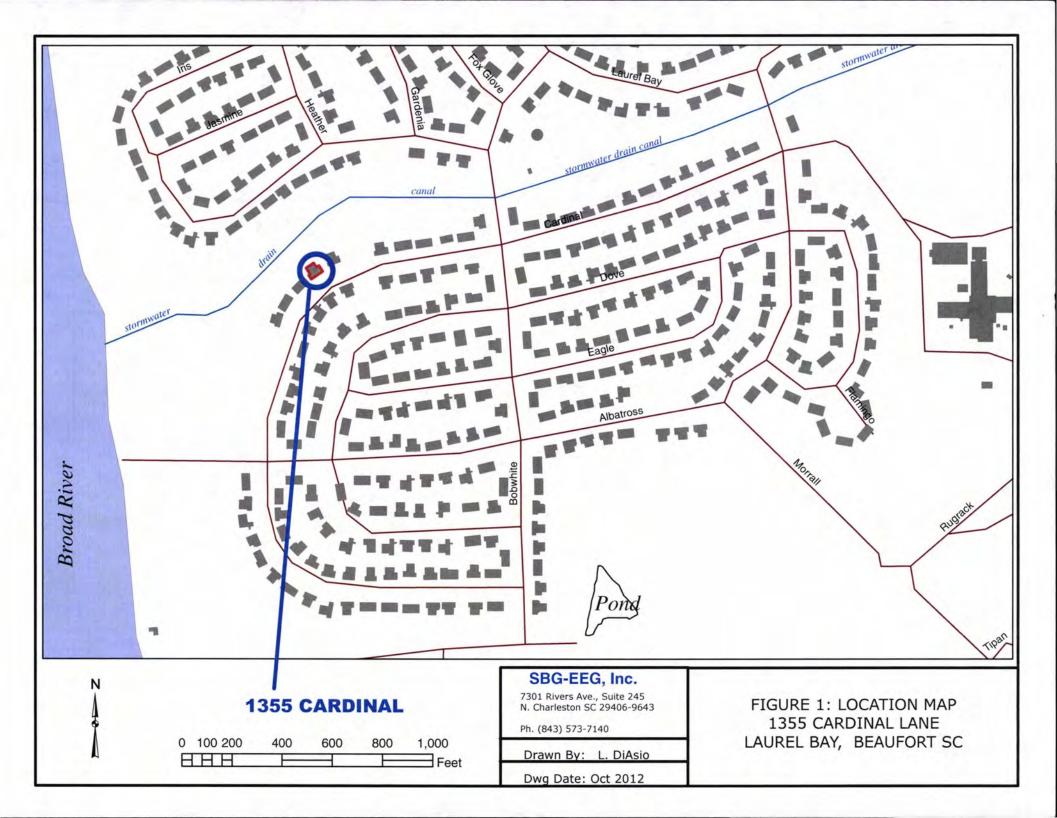
Yes No

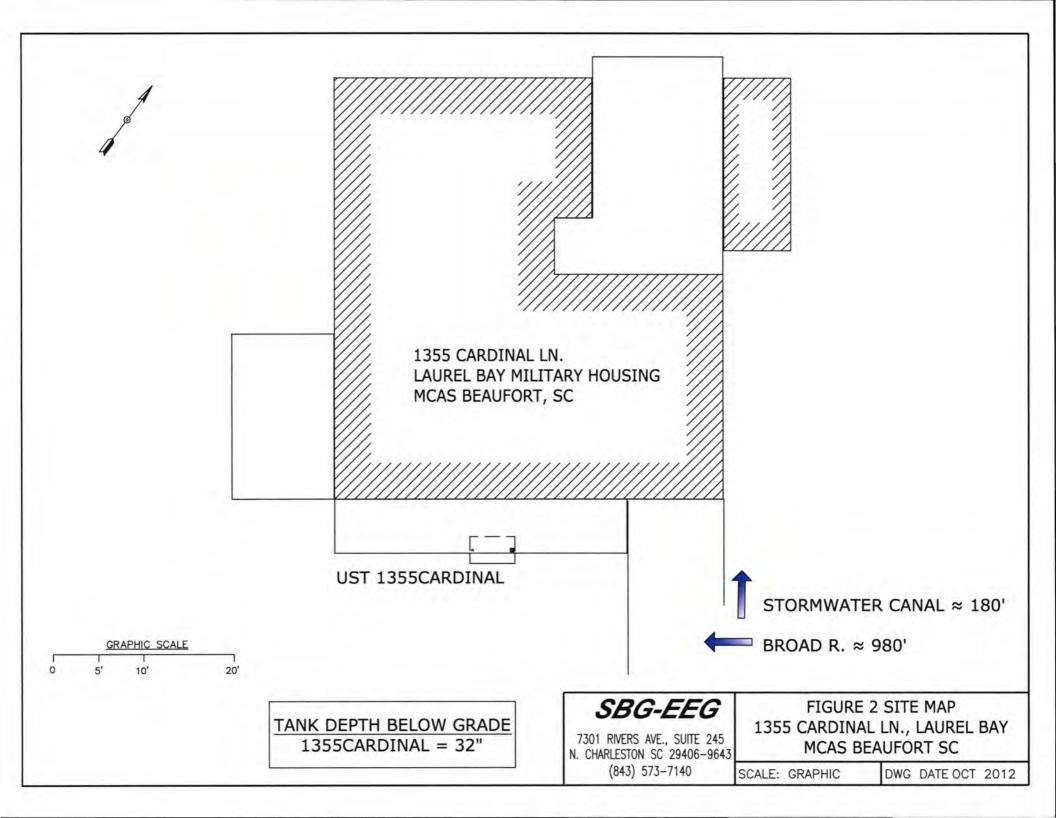
		1 65	110
A.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?	*X	
	*Broad River & stormwat	er ca	hal
	If yes, indicate type of receptor, distance, and direction on site map.		
B.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?		Х
	If yes, indicate type of well, distance, and direction on site map.		
C.	Are there any underground structures (e.g., basements) Located within 100 feet of the UST system?		Х
	If yes, indicate type of structure, distance, and direction on site map.		
D.	Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the contamination? *Sewer, water, elected cable & fiber optic	İ	ty
	If yes, indicate the type of utility, distance, and direction on the site map.	:	
E.	Has contaminated soil been identified at a depth less than 3 feet below land surface in an area that is not capped by asphalt or concrete?		Х
	If yes, indicate the area of contaminated soil on the site map.		

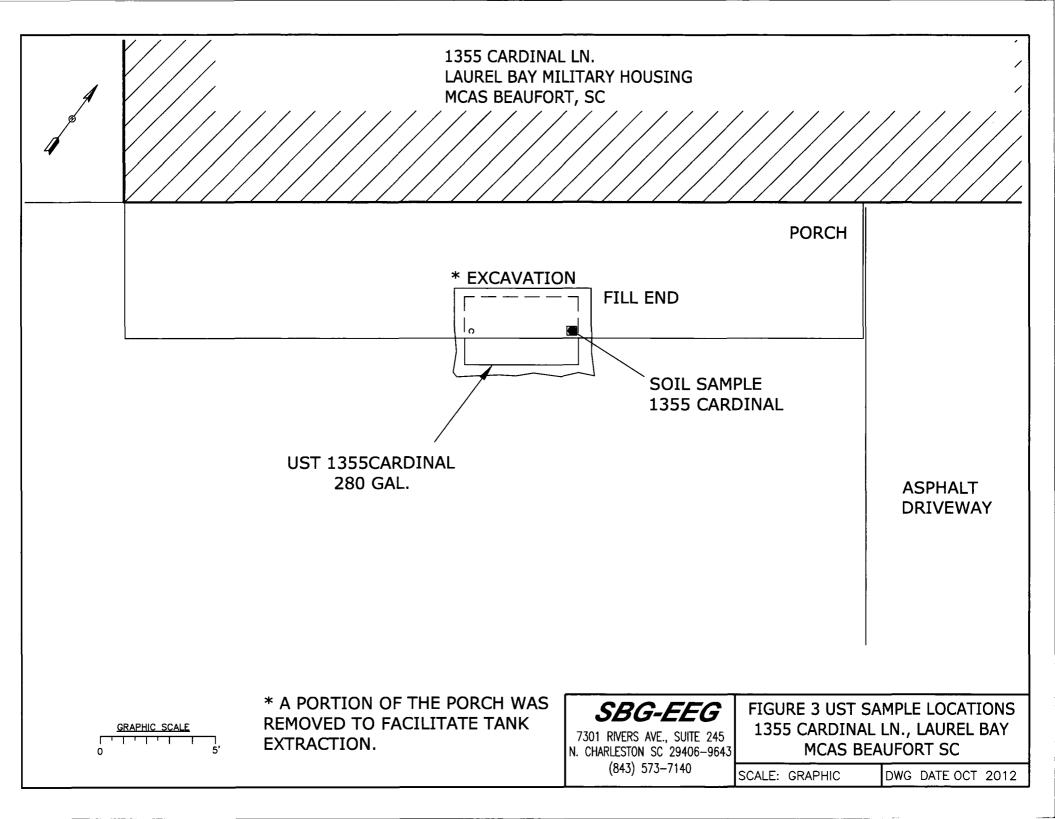
XIII. SITE MAP

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

(Attach Site Map Here)









Picture 1: Location of UST 1355Cardinal.



Picture 2: UST 1355Cardinal excavation.

XIV. SUMMARY OF ANALYSIS RESULTS

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

				 	T	 _
CoC UST	1355Cardinal	, , , , , ,				
Benzene	ND					
Toluene	0.000965 mg/	kg		 		
Ethylbenzene	ND					
Xylenes	ND					
Naphthalene	ND					
Benzo (a) anthracene	ND					
Benzo (b) fluoranthene	ND					
Benzo (k) fluoranthene	ND					
Chrysene	ND					
Dibenz (a, h) anthracene	ND					
TPH (EPA 3550)						
CoC						_
Benzene						
Toluene						
Ethylbenzene				<u> </u>		
Xylenes						
Naphthalene			_			
Benzo (a) anthracene						
Benzo (b) fluoranthene						
Benzo (k) fluoranthene						
Chrysene						
Dibenz (a, h) anthracene						
TPH (EPA 3550)						

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

CoC	RBSL				
	(µg/l)	W-1	W-2	W -3	W -4
Free Product Thickness	None				
Benzene	5				
Toluene	1,000	-			
Ethylbenzene	700				
Xylenes	10,000				
Total BTEX	N/A				
МТВЕ	40			į	
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)



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: 490-7486-1

Client Project/Site: Laurel Bay Housing Project

Revision: 1

For:

Environmental Enterprise Group 10179 Highway 78 Ladson, South Carolina 29456

Attn: Mr. Tom McElwee

Authorized for release by:

Authorized for release by 10/20/2012 3:33:33 PM

Ken Hayes Project Manager I

ken.hayes@testamericainc.com

LINKS

Review your project results through

Have a Question?



Visit us at: www.testamericainc.com The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-7486-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-7486-1	761 Althea	Solid	09/17/12 13:45	09/25/12 08:45
490-7486-2	1173 Bobwhite	Solid	09/18/12 14:45	09/25/12 08:45
490-7486-3	1415 Albatross	Solid	09/19/12 14:15	09/25/12 08:45
490-7486-4	1355 Cardinal	Solid	09/20/12 13:55	09/25/12 08:45

Case Narrative

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-7486-1

Job ID: 490-7486-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-7486-1

Comments

No additional comments.

Receipt

The samples were received on 9/25/2012 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.9° C.

Revised Report: To report 1-Methylnaphthalene and 2-Methylnaphthalene by 8270D per client request. This report replaces the one generated on 10/06/12 @ 1939.

GC/MS VOA

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 23421.

No other analytical or quality issues were noted.

GC/MS Semi VOA

Method(s) 8270D: Matrix spikes for batch 24061 could not be recovered due to sample matrix interferences which required sample dilution. The associated laboratory control sample (LCS) met acceptance criteria.

No other 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 10/20/2012

Definitions/Glossary

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-7486-1

Qualifiers

GC/MS 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.

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

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

%R Percent Recovery

CNF Contains no Free Liquid

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

Estimated Detection Limit EDL

United States Environmental Protection Agency **EPA**

MDL Method Detection Limit

ML Minimum Level (Dioxin)

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

PQL **Practical Quantitation Limit**

QC Quality Control Reporting Limit RL

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

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

Client Sample Results

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

Client Sample ID: 761 Althea

Date Collected: 09/17/12 13:45 Date Received: 09/25/12 08:45

Naphthalene

Percent Solids

2-Methylnaphthalene

TestAmerica Job ID: 490-7486-1

Lab Sample ID: 490-7486-1

Matrix: Solid
Percent Solids: 86.6

09/28/12 14:32

09/28/12 14:32

09/30/12 04:23

09/30/12 04:23

09/26/12 10:19

5
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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00221	0.000741	mg/Kg	n	09/25/12 17:31	09/27/12 14:25	1
Ethylbenzene	ND		0.00221	0.000741	mg/Kg	n	09/25/12 17:31	09/27/12 14:25	1
Naphthalene	ND		0.00553	0.00188	mg/Kg	益	09/25/12 17:31	09/27/12 14:25	1
Toluene	ND		0.00221	0.000818	mg/Kg	33	09/25/12 17:31	09/27/12 14:25	1
Xylenes, Total	ND		0.00553	0.000741	mg/Kg	301	09/25/12 17:31	09/27/12 14:25	1

	Dil Fac	8
25	1	0
25	1	
25	1	

ND	0.00553	0.000741 mg/Kg	5.2	09/25/12 17:31	09/27/12 14:25	1
%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
101	70 - 130			09/25/12 17:31	09/27/12 14:25	1
114	70 - 130			09/25/12 17:31	09/27/12 14:25	1
95	70 - 130			09/25/12 17:31	09/27/12 14:25	1
106	70 - 130			09/25/12 17:31	09/27/12 14:25	1
	%Recovery Qualifier 101 114 95	%Recovery Qualifier Limits 101 70 - 130 114 70 - 130 95 70 - 130	%Recovery Qualifier Limits 101 70 - 130 114 70 - 130 95 70 - 130	%Recovery Qualifier Limits 101 70 - 130 114 70 - 130 95 70 - 130	%Recovery Qualifier Limits Prepared 101 70 - 130 09/25/12 17:31 114 70 - 130 09/25/12 17:31 95 70 - 130 09/25/12 17:31	%Recovery Qualifier Limits Prepared Analyzed 101 70 - 130 09/25/12 17:31 09/27/12 14:25 114 70 - 130 09/25/12 17:31 09/27/12 14:25 95 70 - 130 09/25/12 17:31 09/27/12 14:25



Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0627	0.00936	mg/Kg	33	09/28/12 14:32	09/30/12 04:23	1
Acenaphthylene	ND		0.0627	0.00842	mg/Kg	n	09/28/12 14:32	09/30/12 04:23	1
Anthracene	ND		0.0627	0.00842	mg/Kg	n	09/28/12 14:32	09/30/12 04:23	1
Benzo[a]anthracene	ND		0.0627	0.0140	mg/Kg	¤	09/28/12 14:32	09/30/12 04:23	1
Benzo[a]pyrene	ND		0.0627	0.0112	mg/Kg	故	09/28/12 14:32	09/30/12 04:23	1
Benzo[b]fluoranthene	ND		0.0627	0.0112	mg/Kg	n	09/28/12 14:32	09/30/12 04:23	1
Benzo[g,h,i]perylene	ND		0.0627	0.00842	mg/Kg	Ø	09/28/12 14:32	09/30/12 04:23	1
Benzo[k]fluoranthene	ND		0.0627	0.0131	mg/Kg	ū	09/28/12 14:32	09/30/12 04:23	1
Pyrene	ND		0.0627	0.0112	mg/Kg	***	09/28/12 14:32	09/30/12 04:23	1
Phenanthrene	ND		0.0627	0.00842	mg/Kg	12	09/28/12 14:32	09/30/12 04:23	1
Chrysene	ND		0.0627	0.00842	mg/Kg	n	09/28/12 14:32	09/30/12 04:23	1
Dibenz(a,h)anthracene	ND		0.0627	0.00655	mg/Kg	D	09/28/12 14:32	09/30/12 04:23	1
Fluoranthene	ND		0.0627	0.00842	mg/Kg	n	09/28/12 14:32	09/30/12 04:23	1
Fluorene	ND		0.0627	0.0112	mg/Kg	322	09/28/12 14:32	09/30/12 04:23	1
Indeno[1,2,3-cd]pyrene	ND		0.0627	0.00936	mg/Kg	333	09/28/12 14:32	09/30/12 04:23	1

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1-Methylnaphthalene	ND	0.0627	0.0131 mg/Kg	n	09/28/12 14:32	09/30/12 04:23	1
Surrogate	%Recovery Qualified	Limits			Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	60	29 - 120			09/28/12 14:32	09/30/12 04:23	1
Terphenyl-d14 (Surr)	91	13 - 120			09/28/12 14:32	09/30/12 04:23	1
Nitrobenzene-d5 (Surr)	50	27 - 120			09/28/12 14:32	09/30/12 04:23	1
General Chemistry							
Analyte	Result Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac

0.10

0.0627

0.0627

0.00842 mg/Kg

0.0150 mg/Kg

0.10 %

ND

ND

87

Client Sample Results

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-7486-1

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Client Sample ID: 1173 Bobwhite

Date Collected: 09/18/12 14:45 Date Received: 09/25/12 08:45 Lab Sample ID: 490-7486-2

Matrix: Solid Percent Solids: 82.8

Method: 8260B - Volatile	Organic Compounds	(GC/MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00254	0.000850	mg/Kg	Ü	09/25/12 17:31	09/27/12 14:55	1
Ethylbenzene	ND		0.00254	0.000850	mg/Kg	D.	09/25/12 17:31	09/27/12 14:55	1
Naphthalene	ND		0.00635	0.00216	mg/Kg	101	09/25/12 17:31	09/27/12 14:55	1
Toluene	ND		0.00254	0.000939	mg/Kg	CE.	09/25/12 17:31	09/27/12 14:55	1
Xylenes, Total	0.00304	J	0.00635	0.000850	mg/Kg	α	09/25/12 17:31	09/27/12 14:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 130	09/25/12 17:31	09/27/12 14:55	1
4-Bromofluorobenzene (Surr)	115		70 - 130	09/25/12 17:31	09/27/12 14:55	1
Dibromofluoromethane (Surr)	94		70 - 130	09/25/12 17:31	09/27/12 14:55	1
Toluene-d8 (Surr)	104		70 - 130	09/25/12 17:31	09/27/12 14:55	1

Toluene-d8 (Surr)	104		70 - 130				09/25/12 17:31	09/27/12 14:55	1
Method: 8270D - Semivolatile	e Organic Compou	nds (GC/MS	S)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0652	0.00973	mg/Kg	D	09/28/12 14:32	09/30/12 04:45	1
Acenaphthylene	ND		0.0652	0.00876	mg/Kg	-03	09/28/12 14:32	09/30/12 04:45	1
Anthracene	0.0477	J	0.0652	0.00876	mg/Kg	328	09/28/12 14:32	09/30/12 04:45	1
Benzo[a]anthracene	0.341		0.0652	0.0146	mg/Kg	-02	09/28/12 14:32	09/30/12 04:45	1
Benzo[a]pyrene	0.201		0.0652	0.0117	mg/Kg	D	09/28/12 14:32	09/30/12 04:45	1
Benzo[b]fluoranthene	0.439		0.0652	0.0117	mg/Kg	12	09/28/12 14:32	09/30/12 04:45	1
Benzo[g,h,i]perylene	0.168		0.0652	0.00876	mg/Kg	12	09/28/12 14:32	09/30/12 04:45	1
Benzo[k]fluoranthene	0.174		0.0652	0.0136	mg/Kg	D	09/28/12 14:32	09/30/12 04:45	1
Pyrene	0.905		0.0652	0.0117	mg/Kg	Ø	09/28/12 14:32	09/30/12 04:45	1
Phenanthrene	0.156		0.0652	0.00876	mg/Kg	Ø	09/28/12 14:32	09/30/12 04:45	1
Chrysene	0.505		0.0652	0.00876	mg/Kg	12	09/28/12 14:32	09/30/12 04:45	1
Dibenz(a,h)anthracene	0.0677		0.0652	0.00681	mg/Kg	n	09/28/12 14:32	09/30/12 04:45	1
Fluoranthene	0.612		0.0652	0.00876	mg/Kg	22	09/28/12 14:32	09/30/12 04:45	1
Fluorene	ND		0.0652	0.0117	mg/Kg	123	09/28/12 14:32	09/30/12 04:45	1
Indeno[1,2,3-cd]pyrene	0.177		0.0652	0.00973	mg/Kg	331	09/28/12 14:32	09/30/12 04:45	1
Naphthalene	ND		0.0652	0.00876	mg/Kg	101	09/28/12 14:32	09/30/12 04:45	1
2-Methylnaphthalene	ND		0.0652	0.0156	mg/Kg	32	09/28/12 14:32	09/30/12 04:45	1
1-Methylnaphthalene	ND		0.0652	0.0136	mg/Kg	LE.	09/28/12 14:32	09/30/12 04:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	57		29 - 120				09/28/12 14:32	09/30/12 04:45	1
Terphenyl-d14 (Surr)	87		13 - 120				09/28/12 14:32	09/30/12 04:45	1
Nitrobenzene-d5 (Surr)	51		27 - 120				09/28/12 14:32	09/30/12 04:45	1

Nitrobenzene-d5 (Surr)	51		27 - 120				09/28/12 14:32	09/30/12 04:45	1
General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83		0.10	0.10	%			09/26/12 15:52	1

Client Sample Results

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

Client Sample ID: 1415 Albatross

Date Collected: 09/19/12 14:15

Analyte

Percent Solids

TestAmerica Job ID: 490-7486-1

Lab Sample ID: 490-7486-3

Matrix: Solid Percent

Wattix. Solid	
Solids: 89.3	

Method: 8260B - Volatile Orga	nic Compounds	(GC/MS)							
Analyte	A CONTRACTOR OF THE PERSON OF	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	ND		0.00179	0.000600	mg/Kg	22	09/25/12 17:31	09/27/12 15:25	
Ethylbenzene	ND		0.00179	0.000600	mg/Kg	×	09/25/12 17:31	09/27/12 15:25	
Naphthalene	ND		0.00448	0.00152	mg/Kg	33	09/25/12 17:31	09/27/12 15:25	7
Toluene	0.000783	J	0.00179	0.000663	mg/Kg	32	09/25/12 17:31	09/27/12 15:25	
Xylenes, Total	ND		0.00448	0.000600	mg/Kg	¤	09/25/12 17:31	09/27/12 15:25	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	100		70 - 130				09/25/12 17:31	09/27/12 15:25	
4-Bromofluorobenzene (Surr)	109		70 - 130				09/25/12 17:31	09/27/12 15:25	3
Dibromofluoromethane (Surr)	93		70 - 130				09/25/12 17:31	09/27/12 15:25	
Toluene-d8 (Surr)	102		70 - 130				09/25/12 17:31	09/27/12 15:25	
Method: 8270D - Semivolatile									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Acenaphthene	ND		0.0646	0.00964	0 0	X	09/28/12 14:32	09/30/12 05:07	
Acenaphthylene	ND		0.0646	0.00867	mg/Kg	***	09/28/12 14:32	09/30/12 05:07	4
Anthracene	ND		0.0646	0.00867	mg/Kg	n	09/28/12 14:32	09/30/12 05:07	
Benzo[a]anthracene	0.0342	J	0.0646	0.0145	mg/Kg	¤	09/28/12 14:32	09/30/12 05:07	
Benzo[a]pyrene	0.0391	J	0.0646	0.0116	mg/Kg	n	09/28/12 14:32	09/30/12 05:07	
Benzo[b]fluoranthene	0.0329	J	0.0646	0.0116	mg/Kg	×	09/28/12 14:32	09/30/12 05:07	
Benzo[g,h,i]perylene	0.0734		0.0646	0.00867	mg/Kg	***	09/28/12 14:32	09/30/12 05:07	
Benzo[k]fluoranthene	ND		0.0646	0.0135	mg/Kg	n	09/28/12 14:32	09/30/12 05:07	
Pyrene	0.0539	J	0.0646	0.0116	mg/Kg	33	09/28/12 14:32	09/30/12 05:07	
Phenanthrene	ND		0.0646	0.00867	mg/Kg	-838	09/28/12 14:32	09/30/12 05:07	
Chrysene	0.0417	J	0.0646	0.00867	mg/Kg	¤	09/28/12 14:32	09/30/12 05:07	-
Dibenz(a,h)anthracene	ND		0.0646	0.00675	mg/Kg	**	09/28/12 14:32	09/30/12 05:07	
Fluoranthene	0.0797		0.0646	0.00867	mg/Kg	Ø	09/28/12 14:32	09/30/12 05:07	
Fluorene	ND		0.0646	0.0116	mg/Kg	Ø	09/28/12 14:32	09/30/12 05:07	-
Indeno[1,2,3-cd]pyrene	0.0679		0.0646	0.00964	mg/Kg	133	09/28/12 14:32	09/30/12 05:07	-
Naphthalene	ND		0.0646	0.00867	mg/Kg	a	09/28/12 14:32	09/30/12 05:07	1
2-Methylnaphthalene	ND		0.0646	0.0154	mg/Kg	Œ	09/28/12 14:32	09/30/12 05:07	1
1-Methylnaphthalene	ND		0.0646	0.0135	mg/Kg	n	09/28/12 14:32	09/30/12 05:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	53		29 - 120				09/28/12 14:32	09/30/12 05:07	1
Terphenyl-d14 (Surr)	78		13 - 120				09/28/12 14:32	09/30/12 05:07	
Nitrobenzene-d5 (Surr)	46		27 - 120				09/28/12 14:32	09/30/12 05:07	
General Chemistry									
		0	-			-			

Analyzed

09/26/12 15:52

Dil Fac

RL

0.10

Result Qualifier

89

RL Unit

0.10 %

Prepared

Client Sample Results

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-7486-1

Lab Sample ID: 490-7486-4

Matrix: Solid Percent Solids: 90.5

Client Sample ID: 1355 Cardinal

Date Collected: 09/20/12 13:55 Date Received: 09/25/12 08:45

2-Fluorobiphenyl (Surr)

Terphenyl-d14 (Surr)

Nitrobenzene-d5 (Surr)

General Chemistry

Analyte

Percent Solids

Method: 8260B - Volatile Organi Analyte		(GC/MS) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00227	0.000760	mg/Kg	n	09/25/12 17:31	09/27/12 15:55	1
Ethylbenzene	ND		0.00227	0.000760	mg/Kg	12	09/25/12 17:31	09/27/12 15:55	1
Naphthalene	ND		0.00567	0.00193	mg/Kg	×	09/25/12 17:31	09/27/12 15:55	1
Toluene	0.000965	J	0.00227	0.000840	mg/Kg	Ø	09/25/12 17:31	09/27/12 15:55	1
Xylenes, Total	ND		0.00567	0.000760	mg/Kg	¤	09/25/12 17:31	09/27/12 15:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 130				09/25/12 17:31	09/27/12 15:55	1
4-Bromofluorobenzene (Surr)	111		70 - 130				09/25/12 17:31	09/27/12 15:55	1
Dibromofluoromethane (Surr)	93		70 - 130				09/25/12 17:31	09/27/12 15:55	1
Toluene-d8 (Surr)	100		70 - 130				09/25/12 17:31	09/27/12 15:55	1
Method: 8270D - Semivolatile O									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0661	0.00986	mg/Kg	B	10/04/12 12:43	10/05/12 14:19	1
Acenaphthylene	ND		0.0661	0.00888	mg/Kg	a	10/04/12 12:43	10/05/12 14:19	1
Anthracene	ND		0.0661	0.00888	mg/Kg	×	10/04/12 12:43	10/05/12 14:19	1
Benzo[a]anthracene	ND		0.0661	0.0148	mg/Kg	D.	10/04/12 12:43	10/05/12 14:19	1
Benzo[a]pyrene	ND		0.0661	0.0118	mg/Kg	D	10/04/12 12:43	10/05/12 14:19	1
Benzo[b]fluoranthene	ND		0.0661	0.0118	mg/Kg	128	10/04/12 12:43	10/05/12 14:19	1
Benzo[g,h,i]perylene	ND		0.0661	0.00888	mg/Kg	¤	10/04/12 12:43	10/05/12 14:19	1
Benzo[k]fluoranthene	ND		0.0661	0.0138	mg/Kg	¤	10/04/12 12:43	10/05/12 14:19	1
Pyrene	ND		0.0661	0.0118	mg/Kg	***	10/04/12 12:43	10/05/12 14:19	1
Phenanthrene	ND		0.0661	0.00888	mg/Kg	n	10/04/12 12:43	10/05/12 14:19	1
Chrysene	ND		0.0661	0.00888	mg/Kg	EE.	10/04/12 12:43	10/05/12 14:19	1
Dibenz(a,h)anthracene	ND		0.0661	0.00690	mg/Kg	¤	10/04/12 12:43	10/05/12 14:19	1
Fluoranthene	ND		0.0661	0.00888	mg/Kg	Ø	10/04/12 12:43	10/05/12 14:19	1
Fluorene	ND		0.0661	0.0118	mg/Kg	D	10/04/12 12:43	10/05/12 14:19	1
Indeno[1,2,3-cd]pyrene	ND		0.0661	0.00986	mg/Kg	ii.	10/04/12 12:43	10/05/12 14:19	1
Naphthalene	ND		0.0661	0.00888	mg/Kg	Ħ	10/04/12 12:43	10/05/12 14:19	1
2-Methylnaphthalene	ND		0.0661	0.0158	mg/Kg	n	10/04/12 12:43	10/05/12 14:19	1
1-Methylnaphthalene	ND		0.0661	0.0138	mg/Kg	žž.	10/04/12 12:43	10/05/12 14:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

29 - 120

13 - 120

27 - 120

RL

0.10

RL Unit

0.10 %

59

66

56

91

Result Qualifier

10/04/12 12:43

10/04/12 12:43

10/04/12 12:43

Prepared

10/05/12 14:19

10/05/12 14:19

10/05/12 14:19

Analyzed

09/26/12 15:52

1

Dil Fac

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-7486-1

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

98

Lab Sample ID: MB 490-23421/6

Matrix: Solid

Surrogate

Analysis Batch: 23421

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Analysis Batch: 23421

Lab Sample ID: MB 490-23421/7

Toluene-d8 (Surr)

Matrix: Solid

Client	Sample	ID: Method	Blank
	Dr	on Type: To	AI/NA

enterior • or tree tentions that the others.	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000670	mg/Kg			09/27/12 07:53	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			09/27/12 07:53	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			09/27/12 07:53	1
Toluene	ND		0.00200	0.000740	mg/Kg			09/27/12 07:53	1
Xylenes, Total	ND		0.00500	0.000670	mg/Kg			09/27/12 07:53	1

MB MB %Recovery Qualifier Limits Prepared Analyzed Dil Fac 101 70 - 130 09/27/12 07:53 109 70 - 130 09/27/12 07:53 95 70 - 130 09/27/12 07:53

Client Sample ID: Method Blank

09/27/12 07:53

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.100	0.0335	mg/Kg			09/27/12 08:23	1
Ethylbenzene	ND		0.100	0.0335	mg/Kg			09/27/12 08:23	1
Naphthalene	ND		0.250	0.0850	mg/Kg			09/27/12 08:23	1
Toluene	ND		0.100	0.0370	mg/Kg			09/27/12 08:23	1
Xylenes, Total	ND		0.250	0.0335	mg/Kg			09/27/12 08:23	1

70 - 130

MB	MB				
%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
101		70 - 130		09/27/12 08:23	1
110		70 - 130		09/27/12 08:23	1
92		70 - 130		09/27/12 08:23	1
95		70 - 130		09/27/12 08:23	1
	%Recovery 101 110 92	110 92	%Recovery Qualifier Limits 101 70 - 130 110 70 - 130 92 70 - 130	%Recovery Qualifier Limits Prepared 101 70 - 130 110 70 - 130 92 70 - 130	%Recovery Qualifier Limits Prepared Analyzed 101 70 - 130 09/27/12 08:23 110 70 - 130 09/27/12 08:23 92 70 - 130 09/27/12 08:23

Lab Sample ID: LCS 490-23421/3 Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Total/NA

Analysis Batch: 23421

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.0500	0.04907		mg/Kg		98	75 - 127
Ethylbenzene	0.0500	0.04776		mg/Kg		96	80 - 134
Naphthalene	0.0500	0.06947		mg/Kg		139	69 - 150
Toluene	0.0500	0.05085		mg/Kg		102	80 - 132
Xylenes, Total	0.150	0.1407		mg/Kg		94	80 - 137

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
4-Bromofluorobenzene (Surr)	108		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
Toluene-d8 (Surr)	98		70 - 130

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

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

Lab Sample ID: LCSD 490-23421/4

Matrix: Solid Analysis Batch: 23421 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Spike	LCSD	LCSD				%Rec.		RPD
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
0.0500	0.05044		mg/Kg		101	75 - 127	3	50
0.0500	0.04939		mg/Kg		99	80 - 134	3	50
0.0500	0.06362		mg/Kg		127	69 - 150	9	50
0.0500	0.05164		mg/Kg		103	80 - 132	2	50
0.150	0.1475		mg/Kg		98	80 - 137	NaN	50
	Added 0.0500 0.0500 0.0500 0.0500	Added Result 0.0500 0.05044 0.0500 0.04939 0.0500 0.06362 0.0500 0.05164	Added Result Qualifier 0.0500 0.05044 0.0500 0.04939 0.0500 0.06362 0.0500 0.05164	Added Result Qualifier Unit 0.0500 0.05044 mg/Kg 0.0500 0.04939 mg/Kg 0.0500 0.06362 mg/Kg 0.0500 0.05164 mg/Kg	Added Result 0.0500 Qualifier 0.0504 Unit mg/Kg D 0.0500 0.05044 mg/Kg mg/Kg 0.0500 0.04939 mg/Kg 0.0500 0.06362 mg/Kg 0.0500 0.05164 mg/Kg	Added Result Qualifier Unit D %Rec 0.0500 0.05044 mg/Kg 101 0.0500 0.04939 mg/Kg 99 0.0500 0.06362 mg/Kg 127 0.0500 0.05164 mg/Kg 103	Added Result Qualifier Unit D %Rec Limits 0.0500 0.05044 mg/Kg 101 75 - 127 0.0500 0.04939 mg/Kg 99 80 - 134 0.0500 0.06362 mg/Kg 127 69 - 150 0.0500 0.05164 mg/Kg 103 80 - 132	Added Result Qualifier Unit D %Rec Limits RPD 0.0500 0.05044 mg/Kg 101 75 - 127 3 0.0500 0.04939 mg/Kg 99 80 - 134 3 0.0500 0.06362 mg/Kg 127 69 - 150 9 0.0500 0.05164 mg/Kg 103 80 - 132 2

LCSD LCSD %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 103 70 - 130 97 70 - 130 4-Bromofluorobenzene (Surr) 70 - 130 Dibromofluoromethane (Surr) 103 Toluene-d8 (Surr) 100 70 - 130

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

Lab Sample ID: MB 490-24061/1-A

Matrix: Solid

Analysis Patch: 24262

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

Prop Batch: 24061

Analysis Batch: 24362								Prep Batch	1: 24061
		MB	RL	MDI	Unit	D	Description	Analysis	Dil Fac
Analyte		Qualifier			2.20	U	Prepared	Analyzed	Dii Fac
Acenaphthene	ND		0.0670	0.0100	mg/Kg		09/28/12 14:32	09/29/12 20:38	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		09/28/12 14:32	09/29/12 20:38	1
Anthracene	ND		0.0670	0.00900	mg/Kg		09/28/12 14:32	09/29/12 20:38	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		09/28/12 14:32	09/29/12 20:38	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		09/28/12 14:32	09/29/12 20:38	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		09/28/12 14:32	09/29/12 20:38	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		09/28/12 14:32	09/29/12 20:38	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		09/28/12 14:32	09/29/12 20:38	1
Pyrene	ND		0.0670	0.0120	mg/Kg		09/28/12 14:32	09/29/12 20:38	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		09/28/12 14:32	09/29/12 20:38	1
Chrysene	ND		0.0670	0.00900	mg/Kg		09/28/12 14:32	09/29/12 20:38	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		09/28/12 14:32	09/29/12 20:38	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg		09/28/12 14:32	09/29/12 20:38	1
Fluorene	ND		0.0670	0.0120	mg/Kg		09/28/12 14:32	09/29/12 20:38	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		09/28/12 14:32	09/29/12 20:38	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		09/28/12 14:32	09/29/12 20:38	1
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		09/28/12 14:32	09/29/12 20:38	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		09/28/12 14:32	09/29/12 20:38	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	74	29 - 120	09/28/12 14:32	09/29/12 20:38	1
Terphenyl-d14 (Surr)	100	13 - 120	09/28/12 14:32	09/29/12 20:38	1
Nitrobenzene-d5 (Surr)	71	27 - 120	09/28/12 14:32	09/29/12 20:38	1

Lab Sample ID: LCS 490-24061/2-A

Matrix: Solid

Analysis Batch: 24362

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 24061

%Rec.

Spike LCS LCS %Rec Limits Added Result Qualifier Unit Analyte mg/Kg 98 38 - 120 Acenaphthylene 1.67 1.636

TestAmerica Nashville 10/20/2012

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-7486-1

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

Lab Sample ID: LCS 490-24061/2-A

Matrix: Solid

Analysis Batch: 24362

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24061

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Anthracene	1.67	1.680		mg/Kg		101	46 - 124	
Benzo[a]anthracene	1.67	1.789		mg/Kg		107	45 - 120	
Benzo[a]pyrene	1.67	1.679		mg/Kg		101	45 - 120	
Benzo[b]fluoranthene	1.67	1.729		mg/Kg		104	42 - 120	
Benzo[g,h,i]perylene	1.67	1.653		mg/Kg		99	38 - 120	
Benzo[k]fluoranthene	1.67	1.569		mg/Kg		94	42 - 120	
Pyrene	1.67	1.714		mg/Kg		103	43 - 120	
Phenanthrene	1.67	1.590		mg/Kg		95	45 - 120	
Chrysene	1.67	1.587		mg/Kg		95	43 - 120	
Dibenz(a,h)anthracene	1.67	1.533		mg/Kg		92	32 - 128	
Fluoranthene	1.67	1.652		mg/Kg		99	46 - 120	
Fluorene	1.67	1.594		mg/Kg		96	42 - 120	
Indeno[1,2,3-cd]pyrene	1.67	1.550		mg/Kg		93	41 - 121	
Naphthalene	1.67	1.469		mg/Kg		88	32 - 120	
2-Methylnaphthalene	1.67	1.478		mg/Kg		89	28 - 120	
1-Methylnaphthalene	1.67	1.441		mg/Kg		86	32 - 120	

LCS LCS

мв мв

ND

MB MB

%Recovery Qualifier

65

79

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	68	-	29 - 120
Terphenyl-d14 (Surr)	92		13 - 120
Nitrobenzene-d5 (Surr)	64		27 - 120

Lab Sample ID: MB 490-25606/1-A

Matrix: Solid

1-Methylnaphthalene

2-Fluorobiphenyl (Surr)

Terphenyl-d14 (Surr)

Surrogate

Analysis Batch: 25878

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 25606

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0100	mg/Kg		10/04/12 12:43	10/05/12 13:38	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		10/04/12 12:43	10/05/12 13:38	1
Anthracene	ND		0.0670	0.00900	mg/Kg		10/04/12 12:43	10/05/12 13:38	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		10/04/12 12:43	10/05/12 13:38	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		10/04/12 12:43	10/05/12 13:38	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		10/04/12 12:43	10/05/12 13:38	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		10/04/12 12:43	10/05/12 13:38	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		10/04/12 12:43	10/05/12 13:38	1
Pyrene	ND		0.0670	0.0120	mg/Kg		10/04/12 12:43	10/05/12 13:38	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		10/04/12 12:43	10/05/12 13:38	1
Chrysene	ND		0.0670	0.00900	mg/Kg		10/04/12 12:43	10/05/12 13:38	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		10/04/12 12:43	10/05/12 13:38	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg		10/04/12 12:43	10/05/12 13:38	1
Fluorene	ND		0.0670	0.0120	mg/Kg		10/04/12 12:43	10/05/12 13:38	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		10/04/12 12:43	10/05/12 13:38	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		10/04/12 12:43	10/05/12 13:38	1
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		10/04/12 12:43	10/05/12 13:38	1

10/04/12 12:43	10/05/12 13:38	1
Prepared	Analyzed	Dil Fac
10/04/12 12:43	10/05/12 13:38	1

10/05/12 13:38

10/04/12 12:43

0.0670

Limits

29 - 120

13 - 120

0.0140 mg/Kg

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-7486-1

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

Lab Sample ID: MB 490-25606/1-A

Matrix: Solid

Analyte

Acenaphthylene

Dibenz(a,h)anthracene

Lab Sample ID: 490-7486-4 MS

Fluoranthene

Matrix: Solid

Analysis Batch: 25878

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25606

MB MB

Qualifier Limits Prepared Dil Fac Surrogate %Recovery Analyzed 27 - 120 10/04/12 12:43 Nitrobenzene-d5 (Surr) 59 10/05/12 13:38

LCS LCS

1.461

1.404

1.482

Result Qualifier

Unit

mg/Kg

ma/Ka

mg/Kg

Client Sample ID: Lab Control Sample

Limits

38 - 120

%Rec

88

84

89

D

Prep Type: Total/NA

Prep Batch: 25606

Lab Sample ID: LCS 490-25606/2-A Matrix: Solid Analysis Batch: 25878

Anthracene 1.67 1.456 mg/Kg 87 46 - 124 Benzo[a]anthracene 1.67 1.449 mg/Kg 87 45 - 120 1.67 1.603 45 - 120 Benzo[a]pyrene 96 mg/Kg Benzo[b]fluoranthene 1.67 1.674 mg/Kg 100 42 - 120 38 - 120 Benzo[g,h,i]perylene 1.67 1.438 mg/Kg 86 42 - 120 Benzo[k]fluoranthene 1.67 1.451 87 mg/Kg 43 - 120 Pyrene 1.67 1.398 mg/Kg 84 Phenanthrene 1.67 1.432 86 45 - 120 mg/Kg Chrysene 1.67 1.364 mg/Kg 82 43 - 120

1.67

1.67

Spike

Added

1.67

Fluorene 1.67 1.493 mg/Kg 90 42 - 120 Indeno[1,2,3-cd]pyrene 1 67 1 441 mg/Kg 86 41 121 32 - 120 Naphthalene 1.67 1.463 mg/Kg 88 2-Methylnaphthalene 1.353 81 28 - 120 1.67 mg/Kg 1-Methylnaphthalene 1.67 1.266 mg/Kg

76 32 - 120

32 - 128

46 - 120

LCS LCS

Surrogate %Recovery Limits 2-Fluorobiphenyl (Surr) 61 29 - 120 Terphenyl-d14 (Surr) 71 13 - 120 Nitrobenzene-d5 (Surr) 60 27 - 120

Client Sample ID: 1355 Cardinal

Prep Type: Total/NA

Prep Batch: 25606

Analysis Batch: 25878 Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Ö ND 1.873 102 25 - 120 Acenaphthylene 1.83 mg/Kg mg/Kg n ND 1.83 1.830 100 28 - 125 Anthracene n ND 1.83 1.772 mg/Kg 23 - 120 Benzo[a]anthracene 97 III Benzo[a]pyrene ND 1.83 2.001 mg/Kg 109 15 - 128 ND 1.83 1,976 D 12 - 133 Benzo[b]fluoranthene mg/Kg 108 Benzo[g,h,i]perylene ND 1.83 1.831 mg/Kg 100 22 - 120 12 1.768 97 28 - 120 Benzo[k]fluoranthene ND 1.83 mg/Kg n Pyrene ND 1.83 1.696 93 20 - 123 mg/Kg b Phenanthrene ND 1.83 1.793 98 21 - 122 mg/Kg n 93 20 - 120 ND 1.83 1,702 Chrysene mg/Kg 22 Dibenz(a,h)anthracene ND 1.83 1.768 mg/Kg 97 12 - 128 33 10 - 143 Fluoranthene ND 1.83 1.814 mg/Kg 99 ND 20 - 120 Fluorene 1.83 1.868 102 mg/Kg 12 22 - 121 Indeno[1,2,3-cd]pyrene ND 1.83 1.846 mg/Kg 101

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-7486-1

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

Lab Sample ID: 490-7486-4 MS

Matrix: Solid

Analysis Batch: 25878

Client Sample ID: 1355 Cardinal

Prep Type: Total/NA

Prep Batch: 25606

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Naphthalene	ND		1.83	1.867		mg/Kg	12	102	10 - 120	
2-Methylnaphthalene	ND		1.83	1.718		mg/Kg	13	94	13 - 120	
1-Methylnaphthalene	ND		1.83	1.649		mg/Kg	Œ	90	10 - 120	

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	67		29 - 120
Terphenyl-d14 (Surr)	71		13 - 120
Nitrobenzene-d5 (Surr)	73		27 - 120

Client Sample ID: 1355 Cardinal

10 - 120

13 - 120

10 - 120

76

Prep Type: Total/NA

20

22

16

50

50

50

Matrix: Solid

Lab Sample ID: 490-7486-4 MSD

le Spike lier Added	1725	MSD				%Rec.		RPD
ier Added	Popula					2.55555555		0
	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1.83	1.516		mg/Kg	Ø	83	25 - 120	21	50
1.83	1.516		mg/Kg	33	83	28 - 125	19	49
1.83	1.481		mg/Kg	335	81	23 - 120	18	50
1.83	1.636		mg/Kg	13	90	15 - 128	20	50
1.83	1.681		mg/Kg	335	92	12 - 133	16	50
1.83	1.509		mg/Kg	83	83	22 - 120	19	50
1.83	1.427		mg/Kg	Œ	78	28 - 120	21	45
1.83	1.407		mg/Kg	332	77	20 - 123	19	50
1.83	1.489		mg/Kg	333	82	21 - 122	18	50
1.83	1.384		mg/Kg	333	76	20 - 120	21	49
1.83	1.456		mg/Kg	- 322	80	12 - 128	19	50
1.83	1.514		mg/Kg	123	83	10 - 143	18	50
1.83	1.543		mg/Kg	XI.	85	20 - 120	19	50
1.83	1.490		mg/Kg	IX.	82	22 - 121	21	50
	1.83 1.83 1.83 1.83 1.83 1.83 1.83 1.83	1.83 1.516 1.83 1.516 1.83 1.481 1.83 1.636 1.83 1.681 1.83 1.509 1.83 1.427 1.83 1.407 1.83 1.489 1.83 1.384 1.83 1.456 1.83 1.514 1.83 1.514	1.83	1.83 1.516 mg/Kg 1.83 1.516 mg/Kg 1.83 1.481 mg/Kg 1.83 1.636 mg/Kg 1.83 1.681 mg/Kg 1.83 1.509 mg/Kg 1.83 1.427 mg/Kg 1.83 1.427 mg/Kg 1.83 1.427 mg/Kg 1.83 1.497 mg/Kg 1.83 1.496 mg/Kg 1.83 1.384 mg/Kg 1.83 1.456 mg/Kg 1.83 1.514 mg/Kg 1.83 1.514 mg/Kg	1.83	1.83	1.83	1.83

1.83

1.83

1.83

MSD MSD

ND

ND

ND

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	57		29 - 120
Terphenyl-d14 (Surr)	60		13 - 120
Nitrobenzene-d5 (Surr)	56		27 - 120

Method: Moisture - Percent Moisture

Lab Sample ID: 360-42945-B-1 DU

Matrix: Solid

Analyte Percent Solids

Naphthalene

2-Methylnaphthalene

1-Methylnaphthalene

Analysis Batch: 2318

85							Prep Type: To	tal/NA
00	Sample	Sample	DU	DU				RPD
	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
	77		77		0/.		0.4	20

1.526

1.383

1.399

mg/Kg

mg/Kg

mg/Kg

TestAmerica Nashville 10/20/2012

Client Sample ID: Duplicate

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-7486-1

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 490-7453-B-1 DU

Matrix: Solid

Analysis Batch: 23333

Client Sample ID: Duplicate
Prep Type: Total/NA

Sample Sample DU DU RPD Limit Result Qualifier Result Qualifier Unit D Analyte 20 72 Percent Solids

QC Association Summary

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-7486-1

GC/MS VOA

Prep Batch: 23054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-7486-1	761 Althea	Total/NA	Solid	5035	
490-7486-2	1173 Bobwhite	Total/NA	Solid	5035	
490-7486-3	1415 Albatross	Total/NA	Solid	5035	
490-7486-4	1355 Cardinal	Total/NA	Solid	5035	

Analysis Batch: 23421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-7486-1	761 Althea	Total/NA	Solid	8260B	23054
490-7486-2	1173 Bobwhite	Total/NA	Solid	8260B	23054
490-7486-3	1415 Albatross	Total/NA	Solid	8260B	23054
490-7486-4	1355 Cardinal	Total/NA	Solid	8260B	23054
LCS 490-23421/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-23421/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-23421/6	Method Blank	Total/NA	Solid	8260B	
MB 490-23421/7	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 24061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-7486-1	761 Althea	Total/NA	Solid	3550C	
490-7486-2	1173 Bobwhite	Total/NA	Solid	3550C	
490-7486-3	1415 Albatross	Total/NA	Solid	3550C	
LCS 490-24061/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-24061/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 24362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-7486-1	761 Althea	Total/NA	Solid	8270D	24061
490-7486-2	1173 Bobwhite	Total/NA	Solid	8270D	24061
490-7486-3	1415 Albatross	Total/NA	Solid	8270D	24061
LCS 490-24061/2-A	Lab Control Sample	Total/NA	Solid	8270D	24061
MB 490-24061/1-A	Method Blank	Total/NA	Solid	8270D	24061

Prep Batch: 25606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-7486-4	1355 Cardinal	Total/NA	Solid	3550C	
490-7486-4 MS	1355 Cardinal	Total/NA	Solid	3550C	
490-7486-4 MSD	1355 Cardinal	Total/NA	Solid	3550C	
LCS 490-25606/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-25606/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 25878

Client Sample ID	Prep Type	Matrix	Method	Prep Batch
1355 Cardinal	Total/NA	Solid	8270D	25606
1355 Cardinal	Total/NA	Solid	8270D	25606
1355 Cardinal	Total/NA	Solid	8270D	25606
Lab Control Sample	Total/NA	Solid	8270D	25606
Method Blank	Total/NA	Solid	8270D	25606
	1355 Cardinal 1355 Cardinal 1355 Cardinal Lab Control Sample	1355 Cardinal Total/NA 1355 Cardinal Total/NA 1355 Cardinal Total/NA Lab Control Sample Total/NA	1355 Cardinal Total/NA Solid 1355 Cardinal Total/NA Solid 1355 Cardinal Total/NA Solid Lab Control Sample Total/NA Solid	1355 Cardinal Total/NA Solid 8270D 1355 Cardinal Total/NA Solid 8270D 1355 Cardinal Total/NA Solid 8270D Lab Control Sample Total/NA Solid 8270D

QC Association Summary

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-7486-1

General Chemistry

Analysis Batch: 23185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-42945-B-1 DU	Duplicate	Total/NA	Solid	Moisture	
490-7486-1	761 Althea	Total/NA	Solid	Moisture	

Analysis Batch: 23333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-7453-B-1 DU	Duplicate	Total/NA	Solid	Moisture	
490-7486-2	1173 Bobwhite	Total/NA	Solid	Moisture	
490-7486-3	1415 Albatross	Total/NA	Solid	Moisture	
490-7486-4	1355 Cardinal	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-7486-1

Client Sample ID: 761 Althea

Date Collected: 09/17/12 13:45 Date Received: 09/25/12 08:45 Lab Sample ID: 490-7486-1

Matrix: Solid

Percent Solids: 86.6

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			23054	09/25/12 17:31	ML	TAL NSH
Total/NA	Analysis	8260B		1	23421	09/27/12 14:25	AF	TAL NSH
Total/NA	Prep	3550C			24061	09/28/12 14:32	PA	TAL NSH
Total/NA	Analysis	8270D		1 -	24362	09/30/12 04:23	JS	TAL NSH
Total/NA	Analysis	Moisture		1	23185	09/26/12 10:19	MT	TAL NSH

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Client Sample ID: 1173 Bobwhite

Date Collected: 09/18/12 14:45 Date Received: 09/25/12 08:45 Lab Sample ID: 490-7486-2

Matrix: Solid

Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			23054	09/25/12 17:31	ML	TAL NSH
Total/NA	Analysis	8260B		1	23421	09/27/12 14:55	AF	TAL NSH
Total/NA	Prep	3550C			24061	09/28/12 14:32	PA	TAL NSH
Total/NA	Analysis	8270D		1	24362	09/30/12 04:45	JS	TAL NSH
Total/NA	Analysis	Moisture		1	23333	09/26/12 15:52	MT	TAL NSH

12

Client Sample ID: 1415 Albatross

Date Collected: 09/19/12 14:15 Date Received: 09/25/12 08:45 Lab Sample ID: 490-7486-3

Matrix: Solid

Percent Solids: 89.3

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			23054	09/25/12 17:31	ML	TAL NSH
Total/NA	Analysis	8260B		1	23421	09/27/12 15:25	AF	TAL NSH
Total/NA	Prep	3550C			24061	09/28/12 14:32	PA	TAL NSH
Total/NA	Analysis	8270D		1	24362	09/30/12 05:07	JS	TAL NSH
Total/NA	Analysis	Moisture		1	23333	09/26/12 15:52	MT	TAL NSH

Lab Sample ID: 490-7486-4

Matrix: Solid

Percent Solids: 90.5

Client Sample ID: 1355 Cardinal Date Collected: 09/20/12 13:55 Date Received: 09/25/12 08:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			23054	09/25/12 17:31	ML	TAL NSH
Total/NA	Analysis	8260B		1	23421	09/27/12 15:55	AF	TAL NSH
Total/NA	Prep	3550C			25606	10/04/12 12:43	AK	TAL NSH
Total/NA	Analysis	8270D		1	25878	10/05/12 14:19	WS	TAL NSH
Total/NA	Analysis	Moisture		1	23333	09/26/12 15:52	MT	TAL NSH

Laboratory References:

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

Method Summary

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-7486-1

-

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

4

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

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Certification Summary

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

TestAmerica Job ID: 490-7486-1

Laboratory: TestAmerica Nashville

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

Authority	Program	EPA Region	Certification ID	Expiration Dat
	ACIL		393	10-30-12
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alabama	State Program	4	41150	05-31-13
Alaska (UST)	State Program	10	UST-087	07-24-13
Arizona	State Program	9	AZ0473	05-05-13
Arkansas DEQ	State Program	6	88-0737	04-25-13
California	NELAC	9	1168CA	10-31-12
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Colorado	State Program	8	N/A	02-28-13
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAC	4	E87358	06-30-13
llinois	NELAC	5	200010	12-09-12
owa	State Program	7	131	05-01-14
Kansas	NELAC	7	E-10229	10-31-12
Kentucky	State Program	4	90038	12-31-12
Kentucky (UST)	State Program	4	19	09-15-13
Louisiana	NELAC	6	LA110014	12-31-12
Louisiana	NELAC	6	30613	06-30-13
Maryland	State Program	3	316	03-31-13
Massachusetts	State Program	1	M-TN032	06-30-13
Minnesota	NELAC	5	047-999-345	12-31-12
Mississippi	State Program	4	N/A	06-30-13
Montana (UST)	State Program	8	NA	01-01-15
Nevada	State Program	9	TN00032	07-31-13
New Hampshire	NELAC	1	2963	10-09-13
New Jersey	NELAC	2	TN965	06-30-13
New York	NELAC	2	11342	04-01-13
North Carolina DENR	State Program	4	387	12-31-12
North Dakota	State Program	8	R-146	06-30-13
Ohio VAP	State Program	5	CL0033	01-19-14
Oklahoma	State Program	6	9412	08-31-13
Oregon	NELAC	10	TN200001	04-30-13
Pennsylvania	NELAC	3	68-00585	06-30-13
Rhode Island	State Program	1	LAO00268	12-30-12
South Carolina	State Program	4	84009 (001)	02-28-13
South Carolina	State Program	4	84009 (002)	02-23-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAC	6	T104704077-09-TX	08-31-13
USDA	Federal		S-48469	11-02-13
Utah	NELAC	8	TAN	06-30-13
Virginia	NELAC	3	460152	06-14-13
Washington	State Program	10	C789	07-19-13
West Virginia DEP	State Program	3	219	02-28-13
Wisconsin	State Program	5	998020430	08-31-13
Wyoming (UST)	A2LA	8	453.07	12-31-13



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COOLER RECEIPT FORM



		490-7486 Chain of
Cooler Received/Opened On 9/25/2012 @	0 0845	
1. Tracking # 8746	(last 4 digits, FedEx)	
Courier: FedEx IR Gun ID 94660220		
2. Temperature of rep. sample or temp	blank when opened: 4.9 Degrees Cels	ius
3. If Item #2 temperature is 0°C or less, v	vas the representative sample or temp blan	k frozen? YES NO. NA
4. Were custody seals on outside of coo	ler?	YES NONA
If yes, how many and where: (2) fu	ont/Back	
5. Were the seals intact, signed, and dat	ed correctly?	(ES).NONA
6. Were custody papers inside cooler?		(YES)NONA
I certify that I opened the cooler and ansi	wered questions 1-6 (intial)	(W)
7. Were custody seals on containers:	YES NO and Inte	act YESNO(NA
Were these signed and dated correctly	y7	YESNONA
8. Packing mat'l used? Bubblewrap Pla	astic bag Peanuts Vermiculite Foam Ins	ert Paper Other None
9. Cooling process:	lce lce-pack lce (direct contact)	Dry ice Other None
10. Did all containers arrive in good con-	dition (unbroken)?	ES NONA
11. Were all container labels complete (#	, date, signed, pres., etc)?	FESNONA
12. Did all container labels and tags agree	ee with custody papers?	(E)NONA
13a. Were VOA vials received?		YES NONA
b. Was there any observable headspace	ce present in any VOA vial?	YES. (NO)NA
14. Was there a Trip Blank in this cooler	YESNO. (NA) If multiple coolers	s, sequence #
I certify that I unloaded the cooler and an	swered questions 7-14 (intial)	EA
15a. On pres'd bottles, did pH test strips	suggest preservation reached the correct	pH level? YESNO.NA
b. Did the bottle labels indicate that the	ne correct preservatives were used	ES NONA
16. Was residual chlorine present?		YESNO. NA
I certify that I checked for chlorine and pl	Has per SOP and answered questions 15-1	6 (intial) EQ
17. Were custody papers properly filled of	out (ink, signed, etc)?	FES NONA
18. Did you sign the custody papers in th	ne appropriate place?	YESNONA
19. Were correct containers used for the	analysis requested?	YESNONA
20. Was sufficient amount of sample sen	t in each container?	VESNONA
I certify that I entered this project into LIN	AS and answered questions 17-20 (intial)	EA
I certify that I attached a label with the un	ique LIMS number to each container (intial	EA

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

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	Réilinquished by	Reimquished by	M /				1373 CARSINAL	14/5/14/14/	16.	11. 9.00011	76/A/HEA	Sample ID / Description		Sampler Signature:	Sampler Name: (Print)	Telephone Nu	Project Ma	City/Sta	Ad	Client Name/Acc	THE LEADER IN ENVIRONMENTAL TESTING
	Date Time Rev	9/24/12 0830					120112 1300	0/9/2//6/11	Nolly A	0/18/10	1 5 Shell 2/11/6	Date Sampled Time Sampled No. of Containers Shipped Grab Composite		nature: By Suff	(Print) FRAH SHAW	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	Nashville Division 2960 Foster Creighton Nashville, TN 37204
, ,	Eric Appleagh ly TAN 9	Received by:	Method of Shipment:				8			3/2	110	Field Filtered Ice HNO ₃ (Red Label) HCT (Sitter Label) H2SO ₄ Pinatic (Yellow Label) None (Black Label) Other (Specify) Macy (Specify) Groundwater Wastewater	Theservative	New York		Fax No.: 843-879-040					Phone: 615-726-0177 Toll Free: 800-765-0980 Fax: 615-726-3404
	9-35-12 8:15 49		FEDEX				7	- \$ \$ 04	\$ \times \times	7 4 7	XXX	Drinking Water Sludge Soil Other (specify): BTEX + Napth - 82601	Matrix	Project #:	Project ID: Laurel Bay Housing Project	TA Quote #:	PO#: / C	Site State: SC			To assist us in using i methods, is this work regulatory purposes?
			Temperature Upon Receipt VOCs Free of Headspace?										Analyze For:		lousing Project		063		Enforcement Action? Yes	Compliance Monitoring? Yes	To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
			~	1			1		-	1		RUSH TAT (Pre-Schedule)								No	

Loc: 490 **7486**

Login Sample Receipt Checklist

Answer

Job Number: 490-7486-1

Client: Environmental Enterprise Group

Login Number: 7486 List Number: 1

Question

List Source: TestAmerica Nashville

Creator: Abernathy, Eric

Comment

Radioactivity wasn't checked or is </= background as measured by a

survey meter.

The cooler's custody seal, if present, is intact. Sample custody seals, if present, are intact.

The cooler or samples do not appear to have been compromised or tampered with.

Samples were received on ice.

Cooler Temperature is acceptable.

Cooler Temperature is recorded.

COC is present.

COC is filled out in ink and legible. COC is filled out with all pertinent information.

Is the Field Sampler's name present on COC?

There are no discrepancies between the containers received and the COC.

Samples are received within Holding Time.

Sample containers have legible labels.

Containers are not broken or leaking.

Sample collection date/times are provided.

Appropriate sample containers are used.

Sample bottles are completely filled.

Sample Preservation Verified.

There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Multiphasic samples are not present.

Samples do not require splitting or compositing.

Residual Chlorine Checked.

ATTACHMENT A



ON-HAZARDOUS MANIFEST

	1. Ger	nerator's US EPA	A ID No. Ma	anifest Doc	No.	2. Page 1	of				
	NON-HAZARDOUS MANIFEST					1					
	3. Generator's Mailing Address:	Game	protoris Cito Address (64	:66	-:!:\.	A Manife	est Number				
	MCAS, BEAUFORT	Gene	erator's Site Address (If d	ifferent than m	ailing):						
i	LAUREL BAY HOUSING					W	MNA	00316			
							B. State (Generator's	ID		
	BEAUFORT, SC 29907										
	4. Generator's Phone 843-228-646	01				1 150 515 30 75.			750		
	5. Transporter 1 Company Name		6. US EPA II) Number					je ir		
	EEG, INC.						ransporter's II				
				<u>.</u>	orter's Phone	Phone 843-879-0411					
-	7. Transporter 2 Company Name		8. US EPA IC	Number		<u> </u>					
							ransporter's I	<u> </u>			
						F. Transpe	orter's Phone	2001			
	9. Designated Facility Name and Site Address	5	10. US EPA	ID Number							
	HICKORY HILL LANDFILL					G. State F	acility ID				
	2621 LOW COUNTRY ROAD					H. State F	acility Phone	843-9	87-464	.3	
İ	RIDGELAND, SC 29936										
G	11. Description of Waste Materials			-	ntainers	13. Total	14. Unit	l. M	lisc. Comme	nts	
E	a. HEATING OIL TANKS FILLED WITH:	CAND	-	No.	Type	Quantity	Wt./Vol.	 			
N	a. HEATING OIL TAINES FILLED WITH .	SAND									
E		005556			land the		TO HOSE YOUR				
R	WM Profile # 1	.02655SC							<u> </u>		
<u> </u>	b.										
፲											
O R	WM Profile #							1547			
"	C.								<u> </u>		
ŀ	WM Profile #				1,776	1 533 1 3		7 4 3 4 3			
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				Result To the		1	81,3813	Nac all All F	77943 80 x 11		
ŀ	WM Profile #			K Di-	-11	5.19.30.			<u> 1006/1994 197</u>		
	J. Additional Descriptions for Materials Liste	ed Above		k. Dispos	al Location					ĺ	
ŀ				Cell				Level			
1				Grid		•		LCVC.			
ł	15 Special Handling Instructions and Addition	al Information	/ 3		1	4) 146	D CA	din	4	-	
i	15. Special Handling Instructions and Addition US7'S FROM!	ioi iiiioiiiidaa	2)1355(2	ndin	121	V '			,		
İ	1) VILIS Albaticos		3) 1425 CA			F) 44	12 EX	do al	12116	ا کے د	
ŀ		5				3	N. C. K.	1.4.70 4	10 2 × 10 ×	7-	
ŀ	Purchase Order #		EMERGENCY CON	VIACI / PHO	ONE NO.:				/		
1	16. GENERATOR'S CERTIFICATE:					*					
	I hereby certify that the above-described mate							ve been ful	ly and		
ŀ	accurately described, classified and packaged	and are in prop			rding to app	olicable regu	lations.	T 1		T	
1	Printed Name	4	Signature "On behal	f of"		/ ··· · .		Month	Day	Year	
Ⅎ	17. Transporter 1 Advantal demonst of Boosi	ne of Matarials			111	·		1.4			
R -	17. Transporter 1 Acknowledgement of Recei	pt of Materials		1-4	1//			T 1			
A N	Printed Name	hAN	Signature	1 ///	30			Month	Day	Year	
S -	10.7	• ('			and the same			11/1/2		1. ×	
O R	18. Transporter 2 Acknowledgement of Recei	pt of Materials			- p P			Fire 1			
T E	Printed Name		Signature					Month	Day	Year	
R	JAMES BALDW.	N	- Husman	s 1450	leter	Luna		10	l I	12	
1	19. Certificate of Final Treatment/Disposal	•	1 V					Name of the second			
F	I certify, on behalf of the above listed treatme	nt facility that t	to the hest of my knowle	dge, the ah	ove-describ	ned waste w	as managed in	complianc	e with all	,	
ĉ	applicable laws, regulations, permits and licen	* * *	•	.ugc, the ab	CTC GCSCIIL	, Lu Huste W	as manageu II	. somphanc	- with all	·	
:	20. Facility Owner or Operator: Certification			vered by th	is manifest						
¦ ŀ	Printed Name	2. 100apt 01 1101	Signature	- C. Cu Dy III		•		Month	Day	Year	
۱ ۲	and the second s		Jigilatule	Post.				PROMET	Uay		
	Rome Comp 10		$\perp \perp = ICN'$	Secret.	A STATE OF THE STA			1	45	1 June	

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

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Appendix C Regulatory Correspondence





Catherine B. Templeton, Director

Prograting and properties the health of the mable and the environment.

May 15, 2014

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

RE: No Further Action

Laurel Bay Underground Storage Tank Assessment Reports for:

See attached sheet

Dear Mr. Drawdy,

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

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

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

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

Sincerely,

Kent Krieg

Department of Defense Corrective Action Section

Bureau of Land and Waste Management

South Carolina Department of Health and Environmental Control

Cc: Russell Berry (via email)

Craig Ehde (via email)



Catherine B. Templeton, Director

Promessing and presecting the british of the public and the environment

Attachment to:

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

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

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

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

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

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

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