SUMMARY REPORT 685 WEST LAUREL BAY BOULEVARD (FORMERLY 482 WEST LAUREL BAY BOULEVARD) 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



Summary Report 685 West Laurel Bay Boulevard (Formerly 482 West Laurel Bay Boulevard) Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort June 2021

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List of Acronyms

bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
СТО	Contract Task Order
COPC	constituents of potential concern
ft	feet
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 685 West Laurel Bay Boulevard (Formerly 482 West Laurel Bay Boulevard). 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 685 West Laurel Bay Boulevard (Formerly 482 West Laurel Bay Boulevard). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 482 West Laurel Bay Boulevard* (MCAS Beaufort, 2012). The UST Assessment Report is provided in Appendix B. Details regarding the IGWA sampling activities at this site are provided in the *Initial Groundwater Investigation Report – November and December 2015* (Resolution Consultants, 2016). The laboratory report that includes the pertinent IGWA analytical results for this site is presented in Appendix C.

2.1 UST Removal and Soil Sampling

On April 10, 2012, a single 280 gallon heating oil UST was removed from underneath the rear concrete patio at 685 West Laurel Bay Boulevard (Formerly 482 West Laurel Bay Boulevard). The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report



(Appendix B). The UST was removed, cleaned, and shipped offsite for recycling. There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of the UST was 5'6" bgs and a single soil sample was collected from that depth. The sample was collected from the fill port side of the former UST to represent a worst case scenario.

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

2.2 Soil Analytical Results

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

The soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form (Appendix B). The results of the soil sampling at the former UST location were used by MCAS Beaufort, in consultation with SCDHEC, to determine a path forward (i.e., additional sampling or NFA) for the property. The soil results collected from 685 West Laurel Bay Boulevard (Formerly 482 West Laurel Bay Boulevard) were greater than the SCDHEC RBSLs, which indicated further investigation was required. In a letter dated July 1, 2015, SCDHEC requested an IGWA for 685 West Laurel Bay Boulevard (Formerly 482 West Laurel Bay Boulevard by petroleum COPCs. SCDHEC's request letter is provided in Appendix D.

2.3 Groundwater Sampling

On December 2, 2015, a temporary monitoring well was installed at 685 West Laurel Bay Boulevard (Formerly 482 West Laurel Bay Boulevard), in accordance with the South Carolina Well Standards and Regulations (R.61-71.H-I, updated June 24, 2016). In order to provide data that can be used to determine whether COPCs are migrating to underlying groundwater, the monitoring well was placed in the same general location as the former heating oil UST. The former UST location is indicated on Figures 2 and 3 of the UST



Assessment Report (Appendix B). Further details are provided in the *Initial Groundwater Investigation Report – November and December 2015* (Resolution Consultants, 2016).

The sampling strategy for this phase of the investigation required a one-time sampling event of the temporarily installed monitoring well. Following well installation and development, groundwater samples were collected using low-flow methods and shipped to an offsite laboratory for analysis of the petroleum COPCs. Upon completion of groundwater sampling, the temporary well was abandoned in accordance with the South Carolina Well Standards and Regulations R.61-71 (SCDHEC, 2016). Field forms are provided in the *Initial Groundwater Investigation Report – November and December 2015* (Resolution Consultants, 2016).

2.4 Groundwater Analytical Results

A summary of the laboratory analytical results and SCDHEC RBSLs is presented in Table 2. A copy of the laboratory analytical data report is included in Appendix C.

The groundwater results collected from 685 West Laurel Bay Boulevard (Formerly 482 West Laurel Bay Boulevard) were less than the SCDHEC RBSLs and the site specific groundwater VISLs (Table 2), which indicated that the groundwater was not impacted by COPCs associated with the former UST at concentrations that present a potential risk to human health and the environment.

3.0 **PROPERTY STATUS**

Based on the analytical results for groundwater, SCDHEC made the determination that NFA was required for 685 West Laurel Bay Boulevard (Formerly 482 West Laurel Bay Boulevard). This NFA determination was obtained in a letter dated June 8, 2016. SCDHEC's NFA letter is provided in Appendix D.

4.0 **REFERENCES**

- Marine Corps Air Station Beaufort, 2012. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report 482 West Laurel Bay Boulevard, Laurel Bay Military Housing Area*, August 2012.
- Resolution Consultants, 2015. Initial Groundwater Investigation Report November and December 2015 for Laurel Bay Military Housing Area, Multiple Properties, Laurel Bay



Military Housing Area, Marine Corps Air Station Beaufort, Beaufort, South Carolina, April 2016.

- 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.
- South Carolina Department of Health and Environmental Control Bureau of Water, 2016. *R.61-71, Well Standards*, June 2016.

Tables



Table 1Laboratory Analytical Results - Soil685 West Laurel Bay Blvd. (Formerly 482 West Laurel Bay Blvd.)Laurel Bay Military Housing AreaMarine Corps Air Station BeaufortBeaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Results Sample Collected 04/10/12			
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)					
Benzene	0.003	ND			
Ethylbenzene	1.15	ND			
Naphthalene	0.036	ND			
Toluene	0.627	ND			
Xylenes, Total	13.01	ND			
Semivolatile Organic Compounds Ar	alyzed by EPA Method 8270D (mg/kg				
Benzo(a)anthracene	0.66	0.508			
Benzo(b)fluoranthene	0.66	0.503			
Benzo(k)fluoranthene	0.66	0.361			
Chrysene	0.66	0.539			
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 - milligrams per kilogram

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

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

Table 2 Laboratory Analytical Results - Groundwater 685 West Laurel Bay Blvd. (Formerly 482 West Laurel Bay Blvd.) Laurel Bay Military Housing Area Marine Corps Air Station Beaufort Beaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Site-Specific Groundwater VISLs (µg/L) ⁽²⁾	Results Sample Collected 12/02/15			
Volatile Organic Compounds Analyzed	Volatile Organic Compounds Analyzed by EPA Method 8260B (µg/L)					
Benzene 5 16.24 ND						
Ethylbenzene	700	45.95	ND			
Naphthalene	25	29.33	ND			
Toluene	1000	105,445	ND			
Xylenes, Total	10,000	2,133	ND			
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (µg/L)						
Benzo(a)anthracene	10	NA	ND			
Benzo(b)fluoranthene	10	NA	ND			
Benzo(k)fluoranthene	10	NA	ND			
Chrysene	10	NA	ND			
Dibenz(a,h)anthracene	10	NA	ND			

Notes:

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

⁽²⁾ Site-specific groundwater VISLs were calculated using the EPA JE Model Spreadsheets (Version 3.1, February 2004) and conservative modeling inputs representative of a small single-story house with an 8 foot ceiling. Site-specific groundwater VISLs were developed based on a target risk level of 1x10⁻⁶, a target hazard quotient of 1 (per target organ), and a default residential exposure scenario, assuming exposure for 24 hours/day, 350 days/year, for 26 years. Modeling was performed for a range of depths to groundwater for application as appropriate in different areas of the Laurel Bay Military Housing Area. The most conservative levels are presented for comparison. Refer to Appendix H of the Uniform Federal Policy Sampling Analysis and Sampling Plan for Vapor Media, Revision 4 (Resolution Consultants, April 2017) for additional information.

Bold font indicates the analyte was detected.

Bold font and shading indicates the concentration exceeds the SCDHEC RBSL and/or the Site-Specific Groundwater VISL.

EPA - United States Environmental Protection Agency

JE - Johnson & Ettinger

NA - Not Applicable

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

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

µg/L - micrograms per liter

VISL - Vapor Intrusion Screening Level

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

ſ

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

I. OWNERSHIP OF UST (S)

	anding Officer Attn: NR	EAO (Craig Ehde)				
Owner Name (Corporation, Ir	ndividual, Public Agency, Other)					
P.O. Box 55001 Mailing Address						
Beaufort,	South Carolina	29904 <u>-50</u> 01				
City	State	Zip Code				
_843 _	228-7317	_ Craig Ehde	2			
Area Code	Telephone Number	Contact Person				

II. SITE IDENTIFICATION AND LOCATION

Permit I.D. # Laurel Bay Military Housir Facility Name or Company Site Identifi	ng Area, Marine Corps Air Station, Beaufort, SC ier
482 Laurel Bay Blvd., Lau Street Address or State Road (as applica	able)
Beaufort, City	Beaufort County

Attachment 2

Insurance Statement

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

Is there now, or has there ever been an insurance policy or other financial mechanism that covers this UST release? YES___ NO____ (check one)

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

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

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

IV. REQUEST FOR SUPERB FUNDING

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

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

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

Name (Type or print.)

Signature

To be completed by Notary Public:

Sworn before me this ______ day of _____, 20_____

(Name)

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

	VI.	UST INFORMATION
--	-----	------------------------

	VI. UST INFORMATION	482
		LaurelBB
A.	Product(ex. Gas, Kerosene)	Heating oil
B.	Capacity(ex. 1k, 2k)	280 gal
C.	Age	Late 1950s
D.	Construction Material(ex. Steel, FRP)	Steel
E·	Month/Year of Last Use	Mid 1980s
F.	Depth (ft.) To Base of Tank	5'6"
G.	Spill Prevention Equipment Y/N	No
H·	Overfill Prevention Equipment Y/N	No
I.	Method of Closure Removed/Filled	Removed
J_	Date Tanks Removed/Filled	4/10/2012
K.	Visible Corrosion or Pitting Y/N	Yes
L.	Visible Holes Y/N	Yes

M. Method of disposal for any USTs removed from the ground (attach disposal manifests) UST 482LaurelBB was removed from the ground and disposed at a Subtitle "D" landfill. See Attachment "A".

N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests) UST 482LaurelBB had been previously filled with sand by others.

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

VII. PIPING INFORMATION

		and the second				
		482				
		LaurelBB				
		Steel				
A.	Construction Material(ex. Steel, FRP)	& Copper				
B.	Distance from UST to Dispenser	N/A				
C.	Number of Dispensers	N/A	18. A.F. 1.			
D.	Type of System Pressure or Suction	Suction				
E.	Was Piping Removed from the Ground? Y/N	No				
F.	Visible Corrosion or Pitting Y/N	Yes				
		No				
G.	Visible Holes Y/N					
H.	Age	Late 1950s				I
I.	If any corrosion, pitting, or holes were observed, de	scribe the location	and exter	nt for eac	ch piping	; run.
	Conversion and mitting your found	an the surfa		-ha at		

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

VIII. BRIEF SITE DESCRIPTION AND HISTORY

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

	Yes	No	Unk
 A. Were any petroleum-stained or contaminated soils found in the UST excavation, soil borings, trenches, or monitoring wells? 		х	
If yes, indicate depth and location on the site map.			
B. Were any petroleum odors detected in the excavation, soil borings, trenches, or monitoring wells?		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?		х	
If yes, indicate the stockpile location on the site map.			
Name of DHEC representative authorizing soil removal:			
E. Was a petroleum sheen or free product detected on any excavation or boring waters?		х	
If yes, indicate location and thickness.			

X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 84009

B.

۶. ا مسار ال							
Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
482 LaurelBB	Excav at fill end	Soil	Sandy	5'6"	4/10/12 1415 hrs	P. Shaw	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20		* Daud F					

* = Depth Below the Surrounding Land Surface

XI. SAMPLING METHODOLOGY

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

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

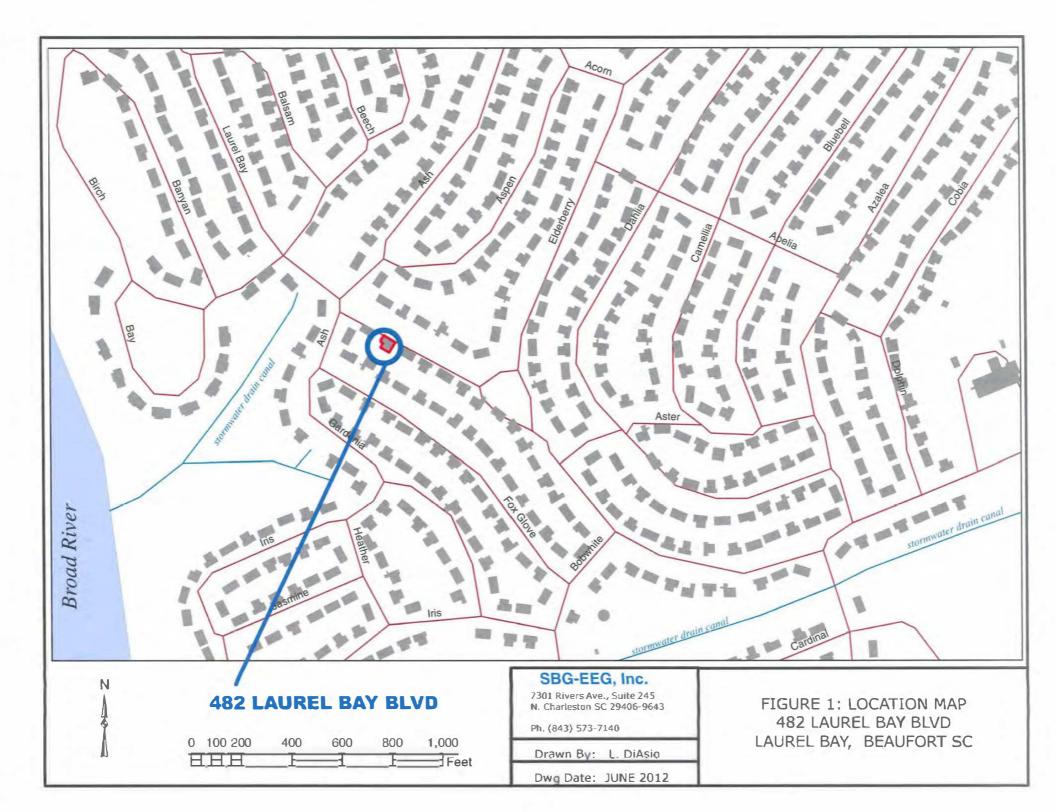
XII. RECEPTORS

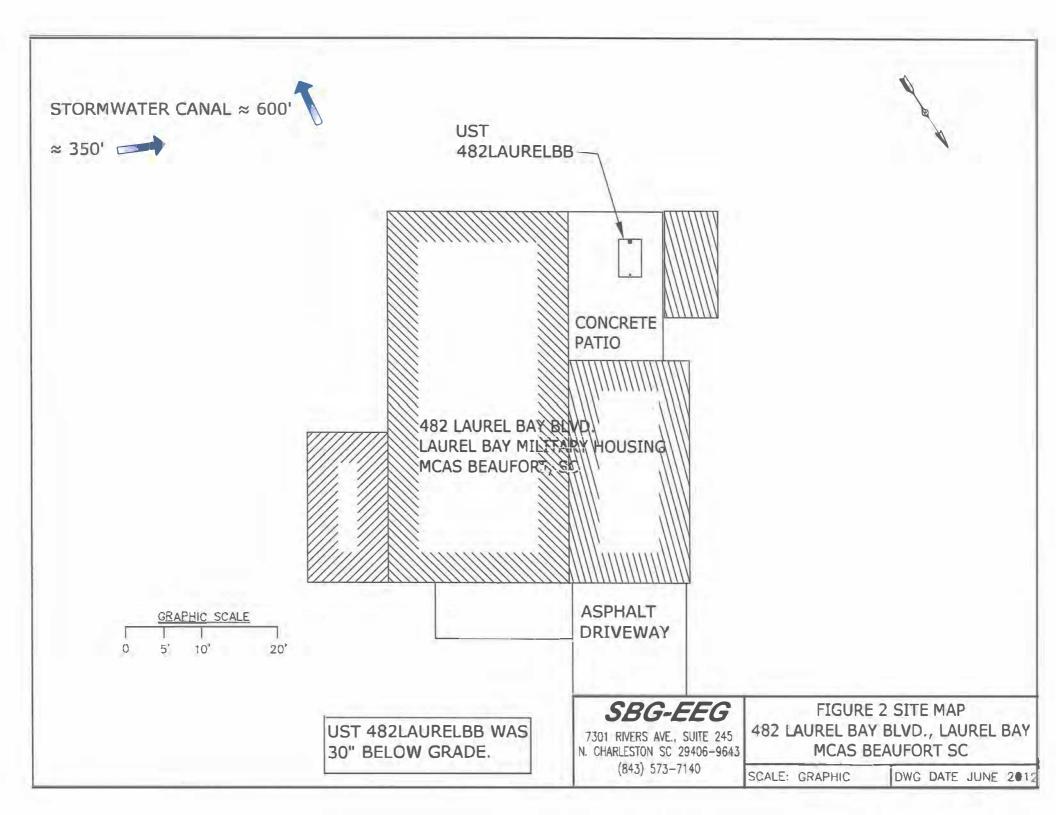
		Yes	No
A.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system? *Two stormwater drainage	*X cana	ls
	If yes, indicate type of receptor, distance, and direction on site map.		
В.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?		х
	If yes, indicate type of well, distance, and direction on site map.		
C.	Are there any underground structures (e.g., basements) Located within 100 feet of the UST system?		х
	If yes, indicate type of structure, distance, and direction on site map.		
D.	Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the contamination? *Sewer, water, electr cable & fiber optic	*X icity	
	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.		

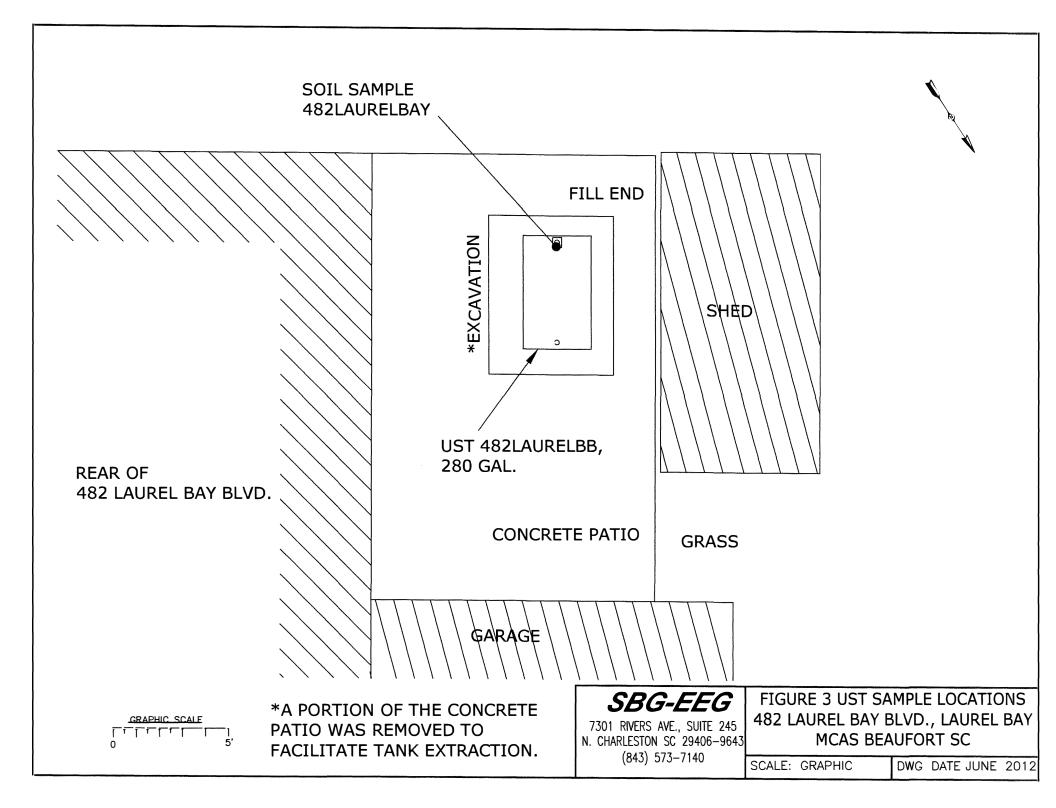
XIII. SITE MAP

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

(Attach Site Map Here)









Picture 1: Location of UST 482LaurelBB.



Picture 2: UST 482LaureIBB during removal.

XIV. SUMMARY OF ANALYSIS RESULTS

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

CoC UST 482LaurelBB	
CoC UST 482LaurelBB	
Benzene ND	
Toluene ND	
Ethylbenzene ND	
Xylenes ND	
Naphthalene ND	
Benzo (a) anthracene 0.508 mg/kg	
Benzo (b) fluoranthene 0.503 mg/kg	
Benzo (k) fluoranthene 0.361 mg/kg	
Chrysene 0.539 mg/kg	
Dibenz (a, h) anthracene ND	
TPH (EPA 3550)	
CoC	
Benzene	
Toluene	
Ethylbenzene	
Xylenes	
Naphthalene	
Benzo (a) anthracene	
Benzo (b) fluoranthene	
Benzo (k) fluoranthene	
Chrysene	
Dibenz (a, h) anthracene	
TPH (EPA 3550)	

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

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



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville 2960 Foster Creighton Road Nashville, TN 37204 Tel: 800-765-0980

TestAmerica Job ID: NWD1747

Client Project/Site: [none] Client Project Description: Laurel Bay Housing Project

For:

EEG - Small Business Group, Inc. (2449) 10179 Highway 78 Ladson, SC 29456

Attn: Tom McElwee

Roxanne L. Connor

Authorized for release by: 6/15/2012 8:50:44 AM Roxanne Connor Program Manager - Conventional Accounts roxanne.connor@testamericainc.com

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Expert

Ken A. Hayes Senior Project Manager ken.hayes@testamericainc.com

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: EEG - Small Business Group, Inc. (2449) Project/Site: [none]

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
NWD1747-01	1049 Gardenia	Soil	04/09/12 14:45	04/14/12 08:40	
NWD1747-02	482 Laurel Bay	Soil	04/10/12 14:15	04/14/12 08:40	
NWD1747-03	1389 Dove	Soil	04/12/12 14:15	04/14/12 08:40	

Client: EEG - Small Business Group, Inc. (2449) Project/Site: [none] TestAmerica Job ID: NWD1747

Job ID: NWD1747

Laboratory: TestAmerica Nashville

Narrative

Revised Report 6/15/2012

Corrected client sample ID for NWD1747-03 per client email.

Replaces report dated 4/25/2012 at 09:50.

Samples PVD0891-01 through -04 received outside of the method required holding times.

Qualifiers

GCMS Volatiles

Qualifier	Qualifier Description
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits
RL1	Reporting limit raised due to sample matrix effects.

GCMS Semivolatiles

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Glossary

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

Client Sample ID: 1049 Gardenia

Date Collected: 04/09/12 14:45 Date Received: 04/14/12 08:40

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Anatyzed	Dil Fac
Benzene	ND		0.00209	0.00115	mg/kg dry	30	04/09/12 14:45	04/23/12 13:52	1.00
Ethylaenzene	ND		0.00209	0.00115	mg/kg diy	-02	04/09/12 14:45	04/23/12 13:52	1.00
Naphthalene	ND		0.00523	0.00261	mg/kg dry	0	04/09/12 14:45	04/23/12 13:52	1.00
Toluene	ND		0.00209	0.00115	mg/kg dry	- 2	04/09/12 14:45	04/23/12 13:52	1.00
Xylenes, total	ND		0.00523	0.00261	mg/kg dry	0	04/09/12 14:45	04/23/12 13:52	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1, 2-Dichloroethane-d 4	97		70 - 130				04/09/12 14:45	04/23/12 13:52	1.00
Dibromofiuoromethane	99		70-130				04/09/12 14:45	04/231/12 13:52	1.00
Toluene-d8	107		70-130				04/09/12 14:45	04/23/12 13:52	1.00
4-Bromofluorobenzene	92		70.130				04/09/12 14:45	04/231/12 13.52	1.00

Method: SW846 8270D- Polyaromatic Hydrocarbons by EPA 8270D

			MDI	Unit	D	Prepared	bozuscoA	Dil Eac	
	Quaimer								
				,					
ND				mg/kg diy					
ND		0.0714	0.0363	mg/kg dry	23	04/16/12 11:00	04/17/12 15:52	1.00	
ND		0.0714	0.0363	mg/kg dry	Ó	04/16/12 11:00	04/17/12 15 [.] 52	1.00	
ND		0.0714	0.0363	mg/kg dry	2	04/16/12 11:00	04/17/12 15:52	1.00	
ND		0.0714	0.0363	mg/kg dry	*	04/16/12 11:00	04/17/12 15:52	1.00	
ND		0.0714	0.0363	mg/kg diy	白	04/16/12 11:00	04/17/12 15:52	1.00	
ND		0.0714	0.0363	mg/kg dry	2	04/16/12 11:00	04/17/12 15:52	1.00	
ND		0.0714	0.0363	mg/kg dry	ą	04/16/12 11:00	04/17/12 15:52	1.00	
ND		0,0714	0.0363	mg/kg diy	æ	04/16/12 11:00	04/17/12 15:52	1.00	
ND		0.0714	0.0363	mg/kg dry	100	04/16/12 11:00	04/17/12 15:52	1.00	
ND		0.0714	0.0363	mg/kg dry	150	04/16/12 11:00	04/17/12 15:52	1.00	
ND		0.0714	0.0363	mg/kg dry	5.0	04/16/12 11:00	04/17/12 15:52	1.00	
ND		0.0714	0.0363	mg/kg dry	5	04/16/12 11:00	04/17/12 15:52	1.00	
ND		0.0714	0.0363	mg/kg dry	19	04/16/12 11:00	04/17/12 15:52	1.00	
ND		0.0714	0.0363	mg/kg diy	0	04/16/12 11:00	04/17/12 15:52	1.00	
ND		0.0714	0.0363	mg/kg dry	8	04/16/12 11:00	04/17/12 15:52	1.00	
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
89		18-120				04/16/12 11:00	04/17/12 15:52	1.00	
63		14 - 120				04/16/12 11:00	04/17/12 15:52	1.00	
58		17 - 120				04/16/12 11:00	04/17/12 15:52	1_00	
emistry Paramete	IS								
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
93.4		0.500	0.500	%		04/19/12 11:42	04/20/12 11:55	1.00	
	Result ND ND ND ND ND ND ND ND ND ND ND ND ND	Result Qualifier ND ND ND Sd 63 58	ND 0.0714 S9	Result Qualifier RL MDL ND 0.0714 0.0363 ND 0.0714 00363 ND 0.0714 0.0363 ND </td <td>Result Qualifier RL MDL Unit ND 0.0714 0.0363 mg/kg dry ND 0.0714 00363 mg/kg dry ND 0.0714 0.0363 mg</td> <td>Result Qualifier RL MDL Unit D ND 0.0714 0.0363 mg/kg dry 6 ND 0.0714 00363 mg/kg dry 6 ND 0.0714 0.0363 mg/kg dry 6 ND</td> <td>Result Qualifier RL MDL Unit D Prepared ND 0.0714 0.0363 mg/kg dry 0.04/16/12 11:00 ND 0.0714 0.0</td> <td>Result Qualifier RL MDL Unit D Prepared Analyzed ND 0.0714 0.0363 mg/kg dry 5 04/16/12 11:00 04/17/12 15:52 ND 0.0714 0.0363 mg/kg dry 5 04/16/12 11:00 04/17/12 15:52 ND 0.0714 0.0363 mg/kg dry 5 04/16/12 11:00 04/17/12 15:52 ND 0.0714 0.0363 mg/kg dry 5 04/16/12 11:00 04/17/12 15:52 ND 0.0714 0.0363 mg/kg dry 6 04/16/12 11:00 04/17/12 15:52 ND 0.0714 0.0363 mg/kg dry 6 04/16/12 11:00 04/17/12 15:52 ND 0.0714 0.0363 mg/kg dry 6 04/16/12 11:00 04/17/12 15:52 ND 0.0714 0.0363 mg/kg dry 9 04/16/12 11:00 04/17/12 15:52 ND 0.0714 0.0363 mg/kg dry 9 04/16/12 11:00 04/17/12 15:52 ND 0.0714 0.</td> <td>Result Qualifier RL MDL Unit D Prepared Analyzed Dill Fac ND 0.0714 0.0363 mg/kg dry © 04/16/12 11:00 04/17/12 15:52 1.00 ND 0.0714 0.0363 mg/kg dry © 04/16/12 11:00 04/17/12 15:52 1.00 ND 0.0714 0.0363 mg/kg dry © 04/16/12 11:00 04/17/12 15:52 1.00 ND 0.0714 0.0363 mg/kg dry © 04/16/12 11:00 04/17/12 15:52 1.00 ND 0.0714 0.0363 mg/kg dry © 04/16/12 11:00 04/17/12 15:52 1.00 ND 0.0714 0.0363 mg/kg dry © 04/16/12 11:00 04/17/12 15:52 1.00 ND 0.0714 0.0363 mg/kg dry © 04/16/12 11:00 04/17/12 15:52 1.00 ND 0.0714 0.0363 mg/kg dry © 04/16/12 11:00 04/17/12 15:52 1.00 ND 0.0714 <</td>	Result Qualifier RL MDL Unit ND 0.0714 0.0363 mg/kg dry ND 0.0714 00363 mg/kg dry ND 0.0714 0.0363 mg	Result Qualifier RL MDL Unit D ND 0.0714 0.0363 mg/kg dry 6 ND 0.0714 00363 mg/kg dry 6 ND 0.0714 0.0363 mg/kg dry 6 ND	Result Qualifier RL MDL Unit D Prepared ND 0.0714 0.0363 mg/kg dry 0.04/16/12 11:00 ND 0.0714 0.0	Result Qualifier RL MDL Unit D Prepared Analyzed ND 0.0714 0.0363 mg/kg dry 5 04/16/12 11:00 04/17/12 15:52 ND 0.0714 0.0363 mg/kg dry 5 04/16/12 11:00 04/17/12 15:52 ND 0.0714 0.0363 mg/kg dry 5 04/16/12 11:00 04/17/12 15:52 ND 0.0714 0.0363 mg/kg dry 5 04/16/12 11:00 04/17/12 15:52 ND 0.0714 0.0363 mg/kg dry 6 04/16/12 11:00 04/17/12 15:52 ND 0.0714 0.0363 mg/kg dry 6 04/16/12 11:00 04/17/12 15:52 ND 0.0714 0.0363 mg/kg dry 6 04/16/12 11:00 04/17/12 15:52 ND 0.0714 0.0363 mg/kg dry 9 04/16/12 11:00 04/17/12 15:52 ND 0.0714 0.0363 mg/kg dry 9 04/16/12 11:00 04/17/12 15:52 ND 0.0714 0.	Result Qualifier RL MDL Unit D Prepared Analyzed Dill Fac ND 0.0714 0.0363 mg/kg dry © 04/16/12 11:00 04/17/12 15:52 1.00 ND 0.0714 0.0363 mg/kg dry © 04/16/12 11:00 04/17/12 15:52 1.00 ND 0.0714 0.0363 mg/kg dry © 04/16/12 11:00 04/17/12 15:52 1.00 ND 0.0714 0.0363 mg/kg dry © 04/16/12 11:00 04/17/12 15:52 1.00 ND 0.0714 0.0363 mg/kg dry © 04/16/12 11:00 04/17/12 15:52 1.00 ND 0.0714 0.0363 mg/kg dry © 04/16/12 11:00 04/17/12 15:52 1.00 ND 0.0714 0.0363 mg/kg dry © 04/16/12 11:00 04/17/12 15:52 1.00 ND 0.0714 0.0363 mg/kg dry © 04/16/12 11:00 04/17/12 15:52 1.00 ND 0.0714 <

Matrix: Soil

Percent Solids: 93.4

Lab Sample ID: NWD1747-01

Client Sample ID: 482 Laurel Bay

Date Collected: 04/10/12 14:15 Date Received: 04/14/12 08:40

Lab Sample ID: NWD1747-02 Matrix: Soil Percent Solide: 70.2

Percent Solids: 70.2

Analyte	Result Quali	fier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	0.00324	0.00178	mg/kg diy	ç	04/10/12 14:15	04/23/12 20:09	1.00
Ethylbenzene	ND	0.00324	0.00178	mg/kg dry	2	04/10/12 14:15	04/23/12 20:09	1.00
Toluene	ND	0.00324	0.00178	mg/kg diy	0	04/10/12 14:15	04/23/12 20:09	1.00
Xylenes, total	ND	000809	0.00405	mg/kg diy	2	04/10/12 14:15	04/23/12 20:09	1.00
Surrogate	%Recovery Quali	fier Limits				Prepared	Analyzed	DilFac
1,2-Dichloroelhane-d4	93	70-130				04/10/12 14:15	04/23/12 20:09	1.00
Dibromofluoromethane	101	70-130				04/10/12 14:15	04/23/12 20:09	1.00
Toluene-d8	120	70- 130				04/10V12 14:15	04/231/12 20:09	1.00
4-Biomolluorobenzene	154 ZX	70-130				04/10/12 14:15	04/23/12 20:09	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	RL1	0.423	0.211	mg/kg diy	9	04/10/12 14:15	04/23/12 20:40	50.0
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	DilFac
1.2-Dichloroethane-d4	85		70-130				04/10/12 14:15	04/23/12 20:40	50.0
Dibromofluoromethane	92		70-130				04/10/12 14:15	04/23/12 20:40	50.0
Toluene-d8	104		70 - 130				04/10/12 14:15	04/23/12 20:40	50.0
4-Bromofluorobenzene	103		70-130				04/10/12 14:15	04/23/12 20:40	50.0

Method: SW846 8270D - Polyaromatic Hydrocarbons by EPA 8270D

wethod; 50040 02100 - Poly	aromatic Hydrocarbo	IS DY EPA 02/00						
Analyte	Result Qu	alifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	0.0947	0.0481	mg/kg dry	X	04/16/12 11:00	04/17/12 16:34	1.00
Acenaphthylene	ND	0.0947	0.0481	mg/kg dry	4	04/16/12 11:00	04/17/12 16:34	1.00
Anthracene	ND	0.0947	0.0481	mg/kg diy	4	04/16/12 11:00	04/17/12 16:34	1.00
Benzo (a) anthracene	0.508	0.0947	0.0481	mg/kg dry	0	04/16/12 11:00	04/17/12 16:34	1.00
Berzo (a) pyrene	0,228	0.0947	0.0481	mg/kg dry	0	04/16/12 11:00	04/17/12 16:34	1.00
Benzo (b) fluoranthene	0.503	0.0947	0.0481	mg/kg diy	2	04/16/12 11:00	04/17/12 16:34	1.00
Benzo (g.h.i) perylene	0.110	0.0947	0.0481	mg/kg dry	0	04/16/12 11:00	04/17/12 16:34	1.00
Benzo (k) fluoranthene	0.361	0.0947	0.0481	mg/kg dry	57	04/16/12 11:00	04/17/12 16:34	1.00
Chrysene	0 539	0.0947	0.0481	mg/kg dry		04/16/12 11:00	04/17/1216:34	1.00
Dibenz (a.h) anIhracene	ND	0.0947	0.0481	mg/kg dry	\$	04/16/12 11:00	04/17/12 16:34	1.00
Fluoranthene	1.32	0.0947	0.0481	mg/kg dry	8	04/16/12 11:00	04/17/12 16:34	1.00
Fluorene	ND	0.0947	0.0481	mg/kg diy	2	04/16/12 11:00	04/17/12 16:34	1.00
Indeno (1.2,3-cd) pyrene	0.112	0.0947	0.0481	mg/kg dry		04/16/12 11:00	04/17/12 16:34	1.00
Naphthalene	ND	0.0947	0.0481	mg/kg dry	0	04/16/12 11:00	04/17/12 16:34	1.00
Phenanlhrene	ND	0.0947	0.0481	mg/kg dry	0	04/16/12 11:00	04/17/12 16:34	1.00
Pyrene	2.73	0.0947	0.0481	mg/kg diy	63	04/16/12 11:00	04/17/12 16:34	1.00
1-Methylnaphthatene	ND	0.0947	0.0481	mg/kg dry	0	04/16/12 11:00	04/17/12 16:34	1.00
2-Methylnaphthalene	ND	0.0947	0.0481	mg/kg diy	ą.	04/16/12 11:00	04/17/12 16:34	1.00
Surrogate	%Recovery Qua	alifier Limits				Prepared	Analyzed	DilFac
Terphenyl-d14	89	18 - 120				04/16/12 11:00	04/17/12 16:34	1.00
2-Fluorobiphenyl	51	14_ 120				04/16/12 11:00	04/17/1216:34	1.00
Nilrobenzene-d5	55	17 - 120				04/16/12 11:00	04/17/12 16:34	1.00
Method: SW-846 - General Ch	nemistry Parameters							
Analyte	Result Qua	alifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	70.2	0.500	0.500	%		04/19/1211:42	04/20/12 11:55	1.00

TestAmerica Job ID: NWD1747

Client Sample ID: 1389 Dove

Date Collected: 04/12/12 14:15 Date Received: 04/14/12 08:40

Lab Sample ID: NWD1747-03

Matrix: Soil

Percent Solids: 80.8

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 82608

Analyte	Result	Qualifier	RL	MDL	Uait	D	Prepared	Anatyzed	Dil Fac
Benzene	0.0159		0.00264	0.00145	mg/kg dry	7.	04/12/12 14:15	04/23/12 14:55	1.00
Surrogale	%Recovery	Qualifier	Limits				Prepared	Analyzed	DilFac
1.2 Dichloroethane-d4	99		70-130				04/12/12 14:15	04/23/12 14:55	1.00
Dibromofluoromethane	100		70.130				04/12/12 14:15	04/23/12 14:55	1.00
Toluene-d 8	593	ZX	70-130				04/12/12 14:15	04/23/12 14:55	1.00
4-Bromofluorobenzene	511	ZX	70-130				04/12/12 14:15	04/23/12 14:55	1.00

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	8.59		0.151	0.0831	mg/kg dıy	Ŕ	04/12/12 14:15	04/23/12 21:12	50.0
Toluene	ND		0.151	0.0831	mg/kg dry	i C	04/12/12 14-15	04/23/12 21:12	50.0
Xylenes, total	22.7		0.378	0.189	mg/kg dry	ġ	04/12/1214:15	04/23/12 21:12	50.0
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	83		70 - 130				04/12/12 14:15	04/23/12 21:12	50.0
1,2-Dichloroethane-d4 Dibromofluoromethane	83 88		70 - 130 70 - 130				04/12/12 14:15 04/12/12 14:15	04/23/12 21:12 04/23/12 21:12	50.0 50.0

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	69.0		7.55	3.78	mg/kg dry	4 . P.	04/12/12 14:15	04/23/12 21:43	1000
Surrogale	%Recovery	Qualifier	Limits				Prepared	Analyzed	DilFac
1.2-Dichloioethane-d4	84		70 - 130				04/12/12 14:15	04/23/12 21:43	1000
Dibromofluoromethane	92		70 - 130				04/12/12 14:15	04/23/12 21:43	1000
Toluene-d8	106		70 - 130				04/12/12 14:15	04/23/12 21:43	1000
4-Bromofluorobenzene	96		70- 130				04/12/12 14:15	04/23/12 21:43	1000

Method: SW846 8270D - Polyaromatic Hydrocarbons by EPA 8270D - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	2.18		0.413	0.210	mg/kg dry	Q	04/16/12 11:00	04/18/12 16:15	5.00
Acenaphthylene	1.54		0.413	0.210	mg/kg dry	Ş	04/16/12 11:00	04/18/12 16:15	5.00
Anthracene	18.3		0.413	0.210	mg/kg diy	\$	04/16/12 11:00	04/18/12 16:15	5.00
Benzo (a) anthracene	3.02		0.413	0.210	mg/kg diy	S.F	04/16/12 11:00	04/18/12 16:15	5.00
Benzo (a) pyrene	1.16		0.413	0.210	mg/kg dry	,QE	04/16/12 11:00	04/18/12 16:15	5.00
Benzo (b) fiiuoranthene	2.26		0.413	0.210	mg/kg dry	0	04/16/12 11:00	04/18/12 16:15	5.00
Benzo (g,h,i) perylene	0.302	J	0.413	0.210	mg/kg diy	10.	04/16/12 11:00	04/18/12 16:15	5.00
Benzo (k) fluoranthene	2.63		0.413	0.210	mg/kg diy	\$	04/16/12 11:00	04/18/12 16:15	5.00
Chrysene	3.23		0.413	0.210	mg/kg diy	¢	04/16/12 11:00	04/18/12 16:15	5.00
Dibenz (a,h) anthracene	0.216	J	0.413	0.210	mg/kg dry	4	04/16/12 11:00	04/18/12 16:15	500
Fluoranthene	10.1		0.413	0.210	mg/kg dry	9	04/16/12 11:00	04/18/12 16:15	5.00
Fluorene	7.79		0.413	0.210	mg/kg dry	\$	04/16/12 11:00	04/18/12 16:15	5.00
Indeno (1.2.3-cd) pyrene	0.335	J	0.413	0.210	mg/kg diy	\$	04/16/12 11:00	04/18/12 16:15	5.00
Phenanthrene	18.0		0.413	0.210	mg/kg diy	39	04/16/12 11:00	04/18/12 16:15	5.00
Pyrene	9.42		0.413	0.210	mg/kg dry	CF.	04/16/12 11:00	04/18/12 16:15	5.00
Surrogale	%Recovery	Qualifier	Limits				Prepared	Analyzed	DilFac
Teiphenyl-d14	119		18-120				04/16/12 11:00	04/18/1216:15	5.00
2-Fluorobiphenyl	93		14 - 120				04/16/12 11:00	04/18/12 18:15	5.00
Nitrobenzene-d5	203	ZX	17_120				04/16/12 11:00	04/18/12 16:15	5.00

% Dry Solids

TestAmerica Job ID: NWD1747

04/19/1211:42 04/20/12 11:55

1.00

Client Sample ID: 1389 Do	ove						Lab Samp	le ID: NWD1	747-03
Date Collected: 04/12/12 14:15								Mat	trix: Soil
Date Received: 04/14/12 08:40								Percent Soli	ds. 80.8
Method: SW846 8270D - Poly	aromatic Hydroca	rbons by EP/	A 8270D - RE2						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	25.3		0.826	0.419	mg/kg dry	Ş	04/16/12 11:00	04/18/12 16:35	10.0
Method: SW846 8270D - Poly	aromatic Hydroca	rbons by EPA	8270D - RE3						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	68.7		4.13	2.10	mg/kg diy	1	04/16/12 11:00	04/18/12 17:16	50.0
2-Methylnaphthalene	84.6		4.13	2.10	mg/kg dry	¢	04/16/1211:00	04/18/12 17:16	50,0
Method: SW-846 - General Ch	emistry Paramete	rs							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

0.500

80.8

0.500 %

6

Method: SW846 8260B · Volatile Organic Compounds by EPA Method 8260B

Lab Sample ID: 12D2956-BLK1 Matrix: Soil												Client 9	Sample	ID: Meth	od Blar	1 k
Matrix, Son												Glient	Jampic			
Analysis Batch: V006733													Been	Prep Ty		
Analysis Batch. V000755		Riank	Blank										Frep	Batch: 12	D2930_	
Analyte			Qualifier		RL		MDL	Unit		D	P	repared	0	nalyzed	Dil Fi	ar
Benzene		ND		0	.00200	0.0		mg/kg	wet	191		3/12 10:1:		23/12 12:49	1.0	
Ethylbenzene		ND			.00200			mg/kg				23/12 10:1:		23/12 12:49		
Naphthatene		ND			00500			mg/kg				3/12 10:12		3/12 12:49	1.0	
Toluene		ND			00200			mg/kg				3/12 10:12		3/12 12:49	1.0	
Xylenes, lotal		ND			00500			mg/kg				3/12 10:12		23/12 12:49	1.0	
			Blank													
Surrogate	%Reco		Qualifier		nits						P	repared	A	nalyzed	DilFa	36
1,2-Dichloroethane-d4		96			- 130						04/2	23/12 10:1:	2 04/2	3/12 12:49	1.0	0
Dibromofluoromethane		98			. 130						04/2	23/12 10:12	2 04/2	23/12 12:49	1.0	0
Toluene-d8		106			- 130							3/12 10:12		3/12 12:49	1.0	
4-Bromofluorobenzene		105		70.	130						04/2	23/12 10:12	2 04/2	3/12 12:49	1.0	0
Lab Sample ID: 12D2956-BLK2												Client S	ample	ID: Meth	od Blan	k
Matrix: Soil														Prep Ty	pe: Tota	al
Analysis Batch: V006733													Prep 8	Batch: 12	D2956_	Ρ
			ВІалк													
Analyte	R		Qualifier		RL		MOL			D		repared		nałyzed	Dil Fa	
Benzene		ND			0.100			mg/kg			04/2	3/12 10:12	04/2	3/12 13:20	50	0
Ethylbenzene		ND			0.100	0.	0550	mg/kg	wet		04/2	3/12 10:12	2 04/2	3/12 13:20	50	0
Naphthalene		ND			0.250	(mg/kg			04/2	3/12 10:12	04/2	3/12 13:20	50	0
Toluene		ND			0.100			mg/kg v			04/2	3/12 10:12	2 04/2	3/12 13:20	50	0
Xylenes, lotal		ND			0.250	().125	mg/kg	wet		04/2	3/12 10:12	04/2	3/12 13:20	50.	0
C			Blank	1 1 1											0.11	
Surrogate	%Reco		Qualifier	Lim								repared		nalyzed	DilFa	
1,2-Dichloroethane-d4		98			130							3/12 10.12		3/12 13:20	50.	
Dibromol?uoromethane Toluene-d8		93 107			130 130							3/12 10:12		3/12 13:20	50	
												3/12 10:12		3/12 13:20	50	
4-Bromoliuorobenzene		91		70-	130						04/2	3/12 10;12	04/2	3/12 13:20	50,	9
Lab Sample ID: 12D2956-BS1										CI	ient	Sample	ID: La	b Contro		
Matrix: Soil													-	Prep Ty		
Analysis Batch: V006733														Batch: 12	02956_1	2
				Spike			LCS	~				Sec.	%Rec.			
Analyte				Added		Result	Quali		Unit		D	%Rec	Limits			
Benzene				50.0		48.4			ug/kg			97	75_12			
Ethylbenzene				50.0		59.8			ug/kg			120	80 - 13			
Naphthalene				50.0 50.0		69.2			ug/kg			138	69-15			
Toluene				150		59.7			ug/kg			119	80.13			
Xylenes, Iolal				150		175			ug/kg			117	80 - 13	1		
	LCS															
	%Recovery	Quali	fier	Limits												
and the second second in the second sec				70 400												
1,2-Dichloroethane-d4	96			70 - 130												
Surrogate 1,2-Dichloroethane:d4 Dibromofluoromethane	100			70 - 130												
1,2-Dichloroethaned4																

Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 12D2956-BSC	21					Clier	nt Sar	nple ID:	Lab Contro	ol Samp	le Du
Matrix: Soil									Pr	ер Туре	: Tota
Analysis Batch: V006733									Prep Bate	ch: 12D2	956_1
			Spike	LCS Dup	LCS Dup				%Rec.		RP
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Benzene			50.0	48.3		ug/kg		97	75 . 127	0.1	5
Elhylbenzene			50.0	59.1		ug/kg		118	80_134	1	5
Naphthalene			50.	68.4		ug/kg		137	69- 150	1	5
Toluene			50.0	59.5		ug/kg		119	80 - 132	0.3	5
Xylenes, total			150	174		ug/kg		116	80 - 137	0.7	-
		LCSDup									
Surrogate	%Recovery		Limits								
1.2-Dichloroethane-d4	97		70-130								
Dibromofluoromethane	96		70-130								
Toluene-d 8	112		70-130								
l-Bromofluorobenzene	91		70-130								
ab Samala ID. 1202056 MS4								01		ID. 4000	-
.ab Sample ID: 12D2956-MS1 Matrix: Soil								Clie	nt Sample		
										ep Type:	
Analysis Batch: V006733	Samala	Sample	Spike	Matrix Spike	Matrix Call				Prep Bato	n: 1202	956_
polyte		Qualifier	Added					010	%Rec.		
nalyte enzene		Quanner	75.5		Qualifier	Unit	D	%Rec	Limits		
	ND					mg/kg dry		92	31 - 143		
lhylbenzene	9.23		75.5			mg/kg diy	卒。	117	23.161		
laphihalene	69.0		75.5	149		mg/kg dry		106	10_176		
oluene	ND		75.5	83.8		mg/kg dry	9	111	30 _ 155		
ylenes, lotal	25.7		227	279		mg/kg diy	-24	112	25-162		
	Matrix Spike	Matrix Spike									
urrogate	%Recovery	Qualifier	Limits								
2-Dichloroethane.d4	84		70-130								
ibromofiluoromethane	96		70_130								
oluene-d 8	107		70 - 130								
-Bromofiluoiobenzene	92		70.130								
ab Sample ID: 12D2956-MSD	1							Clie	nt Sample		
latrix: Soil										ep Type:	
nalysis Batch: V006733		G - 2			5				Prep Batc	h: 12D29	
		Sample		ıtrix Spike Dup			1.2		%Rec.	1.1.1	RP
nalyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Lim
enzene	ND		75.5	71.6		mg/kg dry	\$	95	31 _ 143	3	5
hylbenzene	9.23		75,5	101		mg/kg dry	24 24	121	23-161	3	5
aphthalene	69.0		75.5	158		mg/kg diy	\$	118	10.176	6	5
oluene	ND		75.5	86.4		mg/kg dry	4.34	114	30-155	3	5
lenes, lotal	25.7		227	287		mg/kg dry	0	115	25_162	3	5
Ma	atrix Spike Dup	Matrix Spike Du	up								
rrogate	%Recovery		Limits								
2-Dichlorpethaned4	87		70 130								

	magrix opine bup	main a opine	Dap
Surrogate	%Recovery	Qualifier	Limits
1.2-Dichloroethaned4	87		70.130
Dibromofluoiomethane	98		70-130
Toluened®	106		70 - 130
4-Bromofluorobenzene	91		70-130

Client Sample ID: Method Blank

Method: SW846 8270D - Polyaromatic Hydrocarbons by EPA 8270D

Lab Sample ID: 12D2970-BLK1 Matrix: Soil

Car Campion in the second second							0110111 00	tripite test the title		
Matrix: Soil								Prep Typ	be: Total	
Analysis Batch: 12D2970							6	Prep Batch: 120		
	Blank I	Blank								
Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Acenaphthene	ND		0.0670	0.0340	mg/kg wet		04/16/12 11:00	04/17/12 12:49	1.00	
Acenaphthylene	ND		0.0670	0.0340	mg/kg wet		04/16/12 11:00	04/17/12 12:49	1.00	
Anthracene	ND		0.0670	0.0340	mg/kg wet		04/16/12 11:00	04/17/12 12:49	1.00	
Benzo (a) anthracene	ND		0.0670	0.0340	mg/kg wet		04/16/12 11:00	04/17/12 12:49	1.00	
Benzo (a) pyrene	ND		0.0670	0.0340	mg/kg wet		04/16/12 11:00	04/17/12 12:49	1.00	
Benzo (b) fluoranthene	ND		0.0670	0.0340	mg/kg wet		04/16/12 11:00	04/17/12 12:49	1.00	
Benzo (g.h.i) perylene	ND		0,0670	0.0340	mg/kg wel		04/16/12 11:00	04/17/12 12:49	100	
Benzo (k) Iluoranthene	ND		0.0670	0.0340	mg/kg wet		04/16/12 1 1:00	04/17/12 12:49	1.00	
Chrysene	ND		0.0670	00340	mg/kg wet		04/16/12 11:00	04/17/12 12:49	1.00	
Dibenz (a,h) anthracene	ND		0.0670	0,0340	mg/kg wet		04/16/1211:00	04/17/12 12:49	1.00	
Fluoranthene	ND		0.0670	0.0340	mg/kg wet		04/16/12 11:00	04/17/12 12:49	1.00	
Fluorene	ND		0.0670	0.0340	mg/kg wet		04/16/12 11:00	04/17/12 12:49	1.00	
Indeno (1,2,3-cd) pyrene	ND		0.0670	0.0340	mg/kg wet		04/16/12 11:00	04/17/12 12:49	1.00	
Naphthalene	ND		0.0670	0.0340	mg/kg wet		04/16/12 11:00	04/17/12 12:49	1.00	
Phenanthrene	ND		0.0670	0.0340	mg/kg wet		04/16/12 11:00	04/17/12 12:49	1.00	
Pyrene	ND		0.0670	0.0340	mg/kg wet		04/16/12 11:00	04/17/12 12:49	1.00	
1-Methyinaphthalene	ND		0.0670	0.0340	mg/kg wet		04/16/12 11:00	04/17/12 12:49	1.00	
2-Methylnaphthalene	ND		0.0670	0.0340	mg/kg wet		04/16/12 11:00	04/17/12 12:49	1.00	
	Blank E	Blank								
Cueroseda	N/Decement C	Qualifian	Limita				0	a 4 - 4	DUC	

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	DilFac
Terphenyl-d14	111	18 - 120	04/16/12 11:00	04/17/12 12:49	1.00
2-Fluoroblphenyl	84	14-120	04/16/12 11:00	04/17/12 12:49	1.00
Nilrobenzene-d5	81	17.120	04/16/12 11:00	04/17/12 12:49	1.00

Lab Sample ID: 12D2970-BS1 Matrix: Soil

Analysis Batch: 12D2970

	Spike	LCS LCS			%Rec.
Analyte	Added	Result Qualifier	Unit	D %Rec	Limits
Acenaphthene	1.67	1.42	mg/kg wet	85	36-120
Acenaphthylene	1.67	1.42	mg/kg wet	85	38-120
Anthracene	1.67	1.59	mg/kg wet	95	46-124
Benzo (a) anthracene	1.67	1.56	mg/kg wet	93	45-120
Benzo (a) pyrene	1,67	1.66	mg/kg wet	100	45-120
Benzo (b) fluoranthene	1.67	1.63	mg/kg wet	98	42-120
Benze (g,h,i) perylene	1.67	1,55	mg/kg wet	93	38 - 120
Benzo (k) fluoranthene	1.67	1.45	mg/kgwet	87	42-120
Chrysene	1.67	1.53	mg/kg wel	92	43-120
Dibenz (a,h) anthracene	1.67	1.57	mg/kg wet	94	32- 128
Fluoranthene	1,67	1.62	mg/kg wet	97	46- 120
Fluorene	1.67	1.51	mg/kg wet	91	42-120
Indeno (1,2,3-cd) pyrene	1.67	1.58	mg/kg wel	95	41-121
Naphthalene	1.67	1.37	mg/kg wet	82	32-120
Phenanthrene	1.67	1.56	mg/kg wet	94	45-120
Pyrene	1.67	1.56	mg/kg wet	94	43- 120
1-Methyinaphthalene	1.67	0.952	mg/kg wet	57	32 - 120
2-Methylnaphthalene	1,67	1.24	mg/kg wet	74	28 - 120

Client Sample ID: Lab Control Sample

Prep Type: Total Prep Batch: 12D2970_P

Method: SW846 8270D - Polyaromatic Hydrocarbons by EPA 8270D (Continued)

Wethod: 544040 02100 - P	orjaronia	ie rij arood		Linden	10011				
Lab Sample ID: 12D2970-BS1							Clien	t Sample	e ID: Lab Control Sample
Matrix: Soil									Prep Type: Total
Analysis Batch: 12D2970									Prep Batch: 12D2970_P
	LCS	LCS							
Surrogale	%Recovery	Qualifier	Limits						
Terphenyi-d14	90		18_120						
2-Fluorobiphenyl	66		14 - 120						
Nitrobenzene-d5	58		17-120						
Lab Sample ID: 12D2970-MS1								Client S	ample ID: 1049 Gardenia
Matrix: Soil									Prep Type: Total
Analysis Batch: 12D2970									Prep Batch: 12D2970 P
	Sample	Sample	Spike	Matrix Spike	Matrix Spi	ke			%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acenaphthene	ND		1.78	1.22		mg/kg dry	9	69	19-120
Acenaphthylene	ND		1.78	1.24		mg/kg dry	13.	70	25 - 120
Anthracene	ND		1.78	1.29		mg/kg dry	0	73	28-125
Benzo (a) anthracene	ND		1.78	1.26		mg/kg dry	÷2;	71	23-120
Benzo (a) pyrene	ND		1.78	1.28		mg/kg dry	ø	72	15.128
Benzo (b) fluoranthene	ND		1.78	1.15		mg/kg dry	0	65	12 - 133
Benzo (g.h.i) perylene	ND		1.78	1.24		mg/kg dry	D	70	22-120
Benzo (k) fluoranthene	ND		1.78	1.36		mg/kg dry	4	76	28-120
Chrysene	ND		1.78	1.22		mg/kg dry	1	69	20- 120
Dibenz (a,h) anthracene	ND		1.78	1,24		mg/kg dry	0	70	12 - 128
Fluoranthene	ND		1.78	1.26		mg/kg dry	3	71	10_143
Fluorene	ND		1.78	1.26		mg/kg dry	40.0	71	20_ 120
Indeno (1.2,3-cd) pyrene	ND		1.78	1.26		mg/kg dry	0	71	22-121
Naphthalene	ND		1.78	1.23		mg/kg dry	a	69	10-120
Phenanthrene	ND		1.78	1.28		mg/kg d/y	0	72	21 - 122
Pyrene	ND		1.78	1.26		mg/kg diy	0	71	20-123
1-Melhylnaphthalene	ND		1.78	0.812		mg/kg dry	0	46	10 _ 120
2-Methylnaphthalene	ND		1.78	1.09		mg/kg dry	5	61	13 - 120
	Matrix Spike	Matrix Spike							
Surrogate	%Recovery	Qualifier	Limits						
Terphenyl-d14	68		18-120						
2-Fluorobiphenyi	54		14-120						
Nitrobenzene-d5	47		17.120						

Lab Sample ID: 12D2970-MSD1 Matrix: Soil

Analysis Batch: 12D2970

Analysis Batch: 12D2970									Prep Batc	h: 12D2	970_P
	Sample	Sample	Spike	ıtrix Spike Dup	Matrix Spil	ke Dur			%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthene	ND		1.74	1.25		mg/kg dry	10	71	19-120	2	50
Acenaphthylene	ND		1,74	1.26		mg/kg di y	9	72	25-120	2	50
Anthracene	ND		1.74	1.38		mg/kg dry	0	79	28-125	6	49
Benzo (a) anthracene	ND		1.74	1.36		mg/kg dry	0	78	23-120	8	50
Benzo (a) pyrene	ND		1.74	1.42		mg/kg dry	Ċ,	81	15 - 128	10	50
Benzo (b) fluoranthene	ND		1.74	1.30		mg/kg diy	•	74	12 - 133	12	50
Benzo (g.h.i) perylene	ND		1.74	1.35		mg/kg diy	\mathcal{L}_{q}^{*}	77	22- 120	9	50
Benzo (k) fluoranthene	ND		1.74	1.40		mg/kg dry	÷.	80	28.120	3	45
Chrysene	ND		1.74	1.33		mg/kg dry	-	77	20- 120	9	49
Dibenz (a,h) anthracene	ND		1.74	1.37		mg/kg diy	\$	79	12-128	10	50
Fluoranthene	ND		1.74	1.38		mg/kg dry	D	79	10 - 143	9	50

Client Sample ID: 1049 Gardenia

Prep Type: Total

TestAmerica Nashville 6/15/2012

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Method: SW846 8270D - Polyaromatic Hydrocarbons by EPA 8270D (Continued)

Lab Sample ID: 12D2970-MSI	01							Client S	ample ID: 1	049 Ga	rdenia	
Matrix: Soil									Pre	p Type:	Total	
Analysis Batch: 12D2970									Prep Batc	h: 12D2	970 P	
	Sample	Sample	Spike	Itrix Spike Dup	Matrix Spi	ke Du;			%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPO	Limit	
Fluorene	ND		1.74	1.33		mg/kg dry	D	76	20-120	5	50	
Indeno (1,2,3-cd) pyrene	ND		1.74	1.36		mg/kg dry	4	78	22.121	8	50	1
Naphihalene	ND		1.74	1.21		mg/kg diy	4	70	10_120	1	50	
Phenanthrene	ND		1.74	1.34		mg/kg diy	\$	77	21-122	4	50	1
Pyrene	ND		1.74	1.38		mg/kg dry	4	79	20.123	9	50	
1-Methylnaphthalene	ND		1.74	●.836		mg/kg dry	\$	48	10-120	3	50	
2-Methylnaphthalene	ND		1.74	1.08		mg/kg dry	\Rightarrow	62	13_120	0.7	50	
M	latrix Spike Dup	Matrix Spike I	Dup									

	Matrix Spike Dup	Matrix Spike	Dup
Surrogale	%Recovery	Qualifier	Limits
Terphenyl-d14	71		18 _ 120
2-Fluorobiphenyl	53		14-120
Nitiobenzene-d5	46		17.120

Method: SW-846 - General Chemistry Parameters

Lab Sample ID: 12D3861-DUP	21					Clie	ent Sample ID: 1049 Ga	rdenia
Matrix: Soil							Prep Type:	: Total
Analysis Batch: 12D3861							Prep Batch: 12D3	861 P
	Sample	Sample	Duplicate	Duplicate				RPD
Алајуtе	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
% Dry Solids	93.4		93.4		%		0.04	20

QC Association Summary

Client: EEG - Small Business Group, Inc. (2449) Project/Site: [none]

TestAmerica Job ID: NWD1747

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GCMS Volatiles

Analysis Batch: V006733

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
12D2956-BLK1	Method Blank	Total	Soil	SW846 8260B	12D2956_P
1202956-BLK2	Melhod Blank	Total	Soil	SW846 8260B	12D2956_P
12D2956-BS1	Lab Control Sample	Tolal	Soil	SW846 8260B	12D2956_P
12D2956BSD1	Lab Control Sample Dup	Total	Soil	SW846 8260B	12D2956_P
12D2956-MS1	1389 Dove	Total	Soil	SW8468260B	12D2956_P
12D2956-MSD1	1389 Dove	Total	Soil	SW8468260B	12D2956_P
NWD1747-01	1049 Gardenia	Tolal	Soil	SW846 8260B	12D2956_P
NWD1747-02 - RE1	482 Laurel Bay	Total	Soil	SW846 8260B	12D2956_P
NWD1747-02 - RE2	482 Laurel Bay	Total	Soll	SW8468260B	12D2956_P
NWD1747-03	1389 Dove	Total	Soil	SW846 8260B	12D2956_P
NWD1747-03 - RE1	1389 Dove	Total	Soil	SW846 82608	12D2956_P
NWD1747-03 - RE2	1389 Dove	Toial	Soil	SW846 8260B	12D2956_P

Prep Batch: 1202956_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12D2956-BLK1	Method Blank	Total	Soil	EPA 5035	
12D2956-BLK2	Melhod Blank	Total	Soil	EPA 5035	
12D2956-BS1	Lab Control Sample	Total	Soil	EPA 5035	
12D2956-BSD1	Lab Control Sample Dup	Total	Soil	EPA5035	
12D2956MS1	1389 Dove	Total	Soil	EPA5035	
12D2956-MSD1	1389 Dove	Total	Soil	EPA5035	
NWD1747-01	1049 Gardenia	Total	Soil	EPA 5035	
NWD1747-02 - RE1	482 Laurel Bay	Tolal	Soil	EPA5035	
NWD1747-02 - RE2	482 Laurel Bay	Total	Soil	EPA5035	
NWD1747-03	1389 Dove	Total	Soil	EPA5035	
NWD1747-03 - RE1	1389 Dove	Total	Soil	EPA 5035	
NWD1747-03 - RE2	1389 Dove	Total	Soil	EPA 5035	

GCMS Semivolatiles

Analysis Batch: 12D2970

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
12D2970-BLK1	Method Blank	Tola)	Soil	SW8468270D	12D2970_P
12D2970-BS1	Lab Control Sample	Total	Soil	SW846 8270D	12D2970_P
12D2970-MS1	1049 Gardenia	Total	Soil	SW846 8270D	12D2970_P
12D2970-MSD1	1049 Gardenia	Total	Soil	SW846 8270D	12D2970_P
NWD1747-01	1049 Gardenia	Total	Soil	SW846 8270D	12D2970_P
NWD1747-02	482 Laurel Bay	Total	Soil	SW846 8270D	12D2970_P
NWD1747-03 - RE1	1389 Dove	Total	Sol	SW846 8270D	12D2970_P
NWD1747-03 - RE2	1389 Dove	Total	Soil	SW846 8270D	12D2970_P
NWD1747-03 - RE3	1389 Dove	Total	Soil	SW846 8270D	12D2970_P
Prep Balch: 1202970	P				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12D2970-BLK1	Method Blank	Total	Soil	EPA3550C	
12D2970-BS1	Lab Control Sample	Total	Soil	EPA 3550C	
12D2970-MS1	1049 Gardenia	Total	Soil	EPA 3550C	
12D2970-MSD1	1049 Gardenia	Total	Soll	EPA 3550C	
NWD1747-01	1049 Gardenia	Tolal	Soil	EPA 3550C	
NWD1747-02	482 Laurel Bay	Total	Soil	EPA3550C	
NWD1747-03 - RE1	1389 Dove	Tola)	Soil	EPA 3550C	
NWD1747-03 - RE2	1389 Dove	Total	Soil	EPA 3550C	

QC Association Summary

Client: EEG - Small Business Group, Inc. (2449) Project/Site: [none]

1389 Dove

GCMS Semivolatiles (Continued)

Prep Batch: 12D2970_P (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
NWD1747-03 - RE3	1389 Dove	Total	Soil	EPA 3550C	

Extractions

NWD1747-03

Analysis Batch: 12D3861

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
12D3861-DUP1	1049 Gardenia	Total	Soil	SW-846	12D3861_P
NWD1747-01	1049 Gardenia	Total	Soil	SW-846	12D3861_P
NWD1747-02	482 Laurel Bay	Total	Soil	SW-846	12D3861_P
NWD1747-03	1389 Dove	Total	Soll	SW-846	12D3861_P
Prep Batch: 12D386	1_P				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
12D3861-DUP1	1049 Gardenia	Total	Soil	% Solids	
NWD1747-01	1049 Gardenia	Total	Soil	% Solids	
NWD1747-02	482 Laurel Bay	Total	Soîl	% Solids	

Total

Soil

% Solids

Client Sample ID: 1049 Gardenia

Date Collected: 04/09/12 14:45 Date Received: 04/14/12 08:40

Lab Sample ID: NWD1747-01

Lab Sample ID: NWD1747-02

Matrix: Soil Percent Solids: 93,4

Matrix: Soil

Percent Solids: 70.2

Batch	Batch		Ditution	Batch	Prepared		
Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Prep	EPA 5035		0.977	12D2956_P	04/09/12 14:45	AAN	TAL NSH
Analysis	SW846 8260B		1.00	V006733	04/23/12 13:52	MJH	TALNSH
Prep	EPA3550C		0.996	12D2970_P	04/16/12 1 1:00	KDF	TALNSH
Analysis	SW846 8270D		1.00	12D2970	04/17/12 15:52	WLL	TALNSH
Prep	% Solids		1.00	12D3861_P	04/19/12 11:42	RRS	TALNSH
Analysis	SW-846		1.00	12D3861	04/20/12 11:55	RRS	TALNSH
	Prep Analysis Prep Analysis Prep	TypeMethodPrepEPA 5035AnalysisSW846 8260BPrepEPA3550CAnalysisSW846 8270DPrep% Solids	TypeMethodRunPrepEPA 5035AnalysisSW846 8260BPrepEPA3550CAnalysisSW846 8270DPrep% Solids	Type Method Run Factor Prep EPA 5035 0.977 Analysis SW846 8260B 1.00 Prep EPA3550C 0.996 Analysis SW846 8270D 1.00 Prep % Solids 1.00	Type Method Run Factor Number Prep EPA 5035 0.977 12D2956_P Analysis SW846 8260B 1.00 V006733 Prep EPA3550C 0.996 12D2970_P Analysis SW846 8270D 1.00 12D2970 Prep % Solids 1.00 12D3861_P	Type Method Run Factor Number or Analyzed Prep EPA 5035 0.977 12D2956_P 04/09/12 14:45 Analysis SW846 8260B 1.00 V006733 04/23/12 13:52 Prep EPA3550C 0.996 12D2970_P 04/16/12 11:00 Analysis SW846 8270D 1.00 12D2970 04/17/12 15:52 Prep % Solids 1.00 12D3861_P 04/19/12 11:42	Type Method Run Factor Number or Analyzed Analyst Prep EPA 5035 0.977 12D2956_P 04/09/12 14:45 AAN Analysis SW846 8260B 1.00 V006733 04/23/12 13:52 MJH Prep EPA3550C 0.996 12D2970_P 04/16/12 11:00 KDF Analysis SW846 8270D 1.00 12D2970 04/17/12 15:52 WLL Prep % Solids 1.00 12D3861_P 04/19/12 11:42 RRS

Client Sample ID: 482 Laurel Bay

Date Collected: 04/10/12 14:15 Date Received: 04/14/12 08:40

		10.0				and the second se		
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total	Prep	EPA5035	RE1	1.14	12D2956_P	04/10/12 14:15	AAN	TAL NSH
Total	Analysis	SW846 8260B	RE1	1.00	V006733	04/23/12 20:09	MJH	TAL NSH
Total	Prep	EPA 5035	RE2	1.19	12D2956_P	04/10/12 14:15	AAN	TAL NSH
Total	Analysis	SW846 8260B	RE2	50.0	V006733	04/23/12 20:40	MJH	TAL NSH
Total	Prep	EPA 3550C		0.992	12D2970_P	04/16/12 11:00	KDF	TALNSH
Total	Analysis	SW846 8270D		1.00	12D2970	04/17/1216:34	WLL	TALNSH
Total	Prep	% Solids		1.00	12D3861_P	04/19/12 11:42	RRS	TAL NSH
Total	Analysis	SW-846		1.00	12D3861	04/20/12 11:55	RRS	TALNSH

Client Sample ID: 1389 Dove Date Collected: 04/12/12 14:15

Date Received: 04/12/12 08:40

Lab Sample ID: NWD1747-03

Matrix: Soil Percent Solids: 80.8

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		1.07	12D2956_P	04/12/12 14:15	AAN	TAL NSH
Total	Analysis	SW8468260B		1.00	V006733	04/23/12 14:55	MJH	TAL NSH
Total	Prep	EPA5035	RE1	1.22	12D2956_P	04/12/12 14:15	AAN	TAL NSH
Total	Analysis	SW846 8260B	RE1	50.0	V006733	04/23/12 21:12	MJH	TALNSH
Total	Prep	EPA5035	RE2	1.22	12D2956_P	04/12/12 14:15	AAN	TALNSH
Total	Analysis	SW8468260B	RE2	1000	V006733	04/23/12 21:43	MJH	TALNSH
Total	Prep	EPA 3550C	RE1	0.996	12D2970_P	04/16/12 11:00	KDF	TALNSH
Total	Analysis	SW846 8270D	RE1	5.00	12D2970	04/18/12 16:15	WLL	TAL NSH
Total	Prep	EPA3550C	RE2	0.996	12D2970_P	04/16/12 11:00	KDF	TAL NSH
Total	Analysis	SW8468270D	RE2	10.0	12D2970	04/18/12 16:35	WLL	TALNSH
Total	Prep	EPA3550C	RE3	0.996	12D2970_P	04/16/12 11:00	KDF	TALNSH
Total	Analysis	SW846 8270D	RE3	50.0	12D2970	04/18/12 17:16	WLL	TAL NSH
Total	Prep	% Solids		1.00	12D3861_P	04/19/12 11:42	RRS	TALNSH
Total	Analysis	SW-846		1.00	12D3861	04/20/12 11:55	RRS	TALNSH

Laboratory References:

TAL NSH = TestAmerica Nashville. 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Method	Method Description	Protocol	Laboratory
SW-846	General Chemistry Parameters		TAL NSH
SW846 8260B	Volatile Organic Compounds by EPA Method 8260B		TALNSH
SW846 8270D	Polyaromatic Hydrocarbons by EPA 8270D		TAL NSH

Protocol References:

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Certification Summary

Client: EEG - Small Business Group, Inc. (2449) Project/Site: [none]

Laboratory	Authority	Program	EPA Region	Certification ID	
TestAmerica Nashville		ACIL	1.0. (1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	393	
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07	
TestAmerica Nashville	Alabama	State Program	4	41150	
TestAmerica Nashville	Alaska (UST)	State Program	10	UST-087	
TestAmerica Nashville	Arizona	State Program	9	AZ0473	
TestAmerica Nashville	Arkansas DEQ	State Program	6	88-0737	
TestAmerica Nashville	California	NELAC	9	1168CA	
TestAmerica Nashville	Canadian Assoc Lab Accred (CALA)	Canada		3744	
TestAmerica Nashville	Colorado	State Program	8	N/A	
TestAmerica Nashville	Connecticut	State Program	1	PH-0220	.`
TestAmerica Nashville	Florida	NELAC	4	E87358	
TestAmerica Nashville	Illinois	NELAC	5	200010	
TestAmerica Nashville	lowa	State Program	7	131	
TestAmerica Nashville	Kansas	NELAC	7	E-10229	
TestAmerica Nashville	Kentucky	State Program	4	90038	1.00
TestAmerica Nashville	Kentucky (UST)	State Program	4	19	
TestAmerica Nashville	Louisiana	NELAC	6	30613	
TestAmerica Nashville	Louisiana	NELAC	6	LA110014	
TestAmerica Nashville	Maryland	State Program	3	316	
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032	
TestAmerica Nashville	Minnesota	NELAC	5	047-999-345	
TestAmerica Nashville	Mississippi	StateProgram	4	N/A	
TestAmerica Nashville	Montana (UST)	State Program	8	NA	
TestAmerica Nashville	New Hampshire	NELAC	1	2963	
TestAmerica Nashville	New Jersey	NELAC	2	TN965	
TestAmerica Nashville	New York	NELAC	2	11342	
TestAmerica Nashville	North Carolina DENR	State Program	4	387	
TestAmerica Nashville	North Dakota	StateProgram	8	R-146	
TestAmerica Nashville	Ohio VAP	StateProgram	5	CL0033	
TestAmerica Nashville	Oklahoma	State Program	6	9412	
TestAmerica Nashville	Oregon	NELAC	10	TN200001	
TestAmerica Nashville	Pennsylvania	NELAC	3	68-00585	
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268	
TestAmerica Nashville	South Carolina	State Program	4	84009	
TestAmerica Nashville	South Carolina	State Program	4	84009	
TestAmerica Nashville	Tennessee	State Program	4	2008	
TestAmerica Nashville	Texas	NELAC	6	T104704077-09-TX	
TestAmerica Nashville	USDA	Federal		S-48469	
TestAmerica Nashville	Utah	NELAC	8	TAN	
TestAmerica Nashville	Virginia	NELAC	3	460152	
TestAmerica Nashville	Virginia	State Program	3	00323	
TestAmerica Nashville	Washington	State Program	10	C789	
TestAmerica Nashville	West Virginia DEP	State Program	3	219	
TestAmerica Nashville	Wisconsin	State Program	5	998020430	
TestAmerica Nashville	Wyoming (UST)	A2LA	8	453.07	
			0	+00.07	

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

E LEADER IN ENVIRONMENTAL	and the second second	Nashville I 2960 Fost Nashville,	er Crei	ighto	n			Toll F	one: 6 Free: 8 Fax: 6	00-7	65-09	80						To assist us methods, is regulatory po	this wo	ork being					
Client Name/Account#: 1	EEG - SBG # 244	49																		Complia	ance Mo	onitoring?	Y	′es	No
Address:	10179 Highway 7	78																		Enfor	cement.	Action?	Y	′es	No
City/State/Zip:	Ladson, SC 2945	6														Site	State:							-	
Project Manager:	Tom McElwee er	nail: mcelwo	ee@ee	ginc.n	et												PO#:		03	35					
Telephone Number:	843.412.2097				_	Fa	ax No.:	8	43		87	29	- 0	40	/	TA Qu	uote #:	-							
Sampler Name: (Print)	Pr	AH	51	ha	N										_	Prei	eet ID:	Laurel Bay H	lousin	g Projec	xt				
Sampler Signature:		H.	M								~					Pro	ject#:								
	-		<u> </u>			ſ		Pres	ervative	e	3		Ma	trix		T			Ā	Analyze	For:	-			٦
1049 GARDENiA 482 haurel Bay 1389 Dour	21/9/12 4/19/12 4/12/12	1445 1415 1415	Vo. of Containers Shipped	X X Grab	Composite	Field Filtered	Ice	Neoret Connect and Active reals)	H ₂ S0 ₄ Plastic (velow Label)	2	Other (Specify) Mr. Hus	Groundwater	Drinking Water		→ × Soll Cher (specify):	$\nabla \times X$ BTEX + Napth - 8260	Х X X РАН - 8270D				30/12	747 2 2 ^{3:5⁹}			RUSH TAT (Pre-Schedule)
																								<u> </u>	<u> </u>
quished by	4/13	/12		ne OC	Rece			í	nipmer	ıt:			E	ate	FEDE	<u>EX</u> Tim	ne		peratu	re Upor	n Receip Idspace				Y

.

ATTACHMENT A

NON-HAZARDOUS MANIFEST	ator's US EPA	A ID No.	Manifest Doc	No.	2. Page 1	of L					
Generator's Mailing Address: MCAS, BEAUFORT	Gen	erator's Site Address	lf different than m	ailing):		est Number	00316820				
AUREL BAY HOUSING BEAUFORT, SC 29907 Generator's Phone 843-228-6461	-				B. State Generator's ID						
. Transporter 1 Company Name	_	6. USEP/	JDNumber		See Au						
					C. State Transporter's ID						
EG, INC.					D. Transp	orter's Phone	843-879-0411				
. Transporter 2 Company Name		8. USEP/	ID Number				and the set				
					E. State Transporter's ID						
					F. Transpo	orter's Phone					
. Designated Facility Name and Site Address		10. US EF	A ID Number								
IICKORY HILL LANDFILL					G, State Facility ID H. State Facility Phone 843-987-4643						
621 LOW COUNTRY ROAD											
IDGELAND, SC 29936				1	1153						
1. Description of Waste Materials			12 Col	Type	13. Tetal Quantity	14. Unit WI /Vol	I. Misc. Comments				
. HEATING OIL TANKS FILLED WITH SA				- THE	Quintif						
	655SC		- HOS		1 1992 1	The second second					
WM Profile #						and the second second					

	WM Profile #
J.	Additional Descriptions for Materials Listed Above

	Cell	Level
	Grid	
15. Special Handling Instructions and Additional Information 2) 1389	Dove. 4) 533 L.	14(12.2
D 482 LAUREL BAY 3) 1432	DOUEV5)690CAA	AZLIA

Pur	chase Order #
16.	GENERATOR'S CERTIFICATE:

1

5

I hereby certify that the above-described materials are not hazar	rdous wastes as defined by CFR Part 261 or any applicable state law, hav	ve been fu	lly and	
accurately described, classified and packaged and are in proper	condition for transportation according to applicable regulations.			
Printed Name	Signature "On behalf of"	Month	Day	Year
I MOTHY NAARY	Jenseid Whalis,	5	2	10
The second se				2

Signature

Signature

EMERGENCY CONTACT/ PHONE NO .:

K. Disposal Location

17. Transporter 1 Acknowledgement of Receipt of Materials R Printed Name A Att ShAN 18. Transporter 2 Acknowledgement of Receipt of Materials A R T C Printed Name

R	TrumES Roldman				
	19. Certificate of Final Treatment/Disposal				
I A C	I certify, on behalf of the above listed treatment fapplicable laws, regulations, permits and licenses				
H	20. Facility Owner or Operator: Certification of re				
T	Pripted Name				

certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all	
applicable laws, regulations, permits and licenses on the dates listed above.	

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest. Signature

Printed Name

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

Blue- GENERATOR #2 COPY Gold- TRANSPORTER #1 COPY

Yeres

Yellow- GENERATOR #1 COPY

Month

Month

12

Month

13A

Day

2

Day

Day

Year

12

Year

2

Year

6

Appendix C Laboratory Analytical Report - Groundwater



Volatile Organic Compounds by GC/MS

Description: BEALB482TW01WG20151202

Laboratory ID: QL02016-013 Matrix: Aqueous

Date Sampled:12/02/2015 1105

Date Received: 12/03/2015											
Run Prep Method 1 5030B	Analytical Methoo 8260B			s Date Analyst 115 1739 SES	Prep	Date	Batch 91584				
Parameter			CAS nber	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
Benzene		71-	43-2	8260B	0.45	U	5.0	0.45	0.21	ug/L	1
Ethylbenzene		100-	41-4	8260B	0.51	U	5.0	0.51	0.21	ug/L	1
Naphthalene		91-	20-3	8260B	0.96	U	5.0	0.96	0.14	ug/L	1
Toluene		108-	88-3	8260B	0.48	U	5.0	0.48	0.24	ug/L	1
Xylenes (total)		1330-	20-7	8260B	0.57	U	5.0	0.57	0.32	ug/L	1
Surrogate	Q %	Run 1 Recovery	Acceptar Limit								
Bromofluorobenzene		96	75-120)							
1,2-Dichloroethane-d4		101	70-120)							
Toluene-d8		98	85-120)							
Dibromofluoromethane		99	85-115	5							

PQL = Practical quantitation limitB = Detected in the method blankE = Quantitation of compound exceeded the calibration rangeH = Out of holding timeQ = Surrogate failureND = Not detected at or above the MDLJ = Estimated result < PQL and \geq MDLP = The RPD between two GC columns exceeds 40%N = Recovery is out of criteriaL = LCS/LCSD failureWhere applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"S = MS/MSD failure

Shealy Environmental Services, Inc.106 Vantage Point DriveWest Columbia, SC 29172(803) 791-9700Fax (803) 791-9111www.shealylab.com

Semivolatile Organic Compounds by GC/MS (SIM)

Client: AECOM - Resolution Consultants

Description: BEALB482TW01WG20151202

Laboratory ID: QL02016-013

Date Sampled:12/02/2015 1105

Matrix: Aqueous

Date Received: 12/03/2015

RunPrep Method13520C	Analytical Method I 8270D (SIM)		ysis Date Analyst //2015 1652 DRB1		Date Bat 015 1619 914			
Parameter		CAS Number	Analytical Method	Result	Q LO	DQ LOD	DL	Units Run
Benzo(a)anthracene		56-55-3	8270D (SIM)	0.040	U 0.	.20 0.040	0.019	ug/L 1
Benzo(b)fluoranthene		205-99-2	8270D (SIM)	0.040	UL 0.	.20 0.040	0.019	ug/L 1
Benzo(k)fluoranthene		207-08-9	8270D (SIM)	0.040	U 0.	.20 0.040	0.024	ug/L 1
Chrysene		218-01-9	8270D (SIM)	0.040	U 0.	.20 0.040	0.021	ug/L 1
Dibenzo(a,h)anthracene		53-70-3	8270D (SIM)	0.080	U 0.	.20 0.080	0.040	ug/L 1
Surrogate		Run 1 Accep ecovery Li	tance mits					
2-Methylnaphthalene-d10		75 15-	139					
Fluoranthene-d10		76 23-	154					

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time Q = Surrogate failure ND = Not detected at or above the MDL $J = Estimated result < PQL and \ge MDL$ $\mathsf{P}=\mathsf{The}\;\mathsf{RPD}$ between two GC columns exceeds 40% N = Recovery is out of criteria L = LCS/LCSD failure S = MS/MSD failure Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc. 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com Appendix D Regulatory Correspondence





Catherine E. Heigel, Director Promoting and protecting the health of the public and the environment

July 1, 2015

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

RE: IGWA 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 referenced Underground Storage Tank 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 <u>et seq.</u>, as amended).

The Department has reviewed the referenced assessment reports. The submitted analytical results indicate that petroleum constituents are above established Risk-Based Screening Levels and additional investigation is warranted. Specifically, the Department requests that a groundwater sampling proposal be generated to determine if there has been an impact to groundwater at this site.

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,

that M. They

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) Bryan Beck (via email)



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

Attachment to:

Krieg to Drawdy Subject: IGWA Dated 7/1/2015

Laurel Bay Underground Storage Tank Assessment Reports for: (97 addresses/110 tanks)

118 Banyan	343 Ash Tank 2
126 Banyan	344 Ash Tank 2
127 Banyan	347 Ash Tank 2
130 Banyan Tank 1	378 Aspen Tank 2
141 Laurel Bay	379 Aspen
151 Laurel Bay	382 Aspen Tank 1
224 Cypress	382 Aspen Tank 2
227 Cypress	394 Acorn Tank 2
256 Beech Tank 2	400 Elderberry
257 Beech Tank 1	432 Elderberry
257 Beech Tank 2	436 Elderberry
264 Beech	473 Dogwood Tank 2
265 Beech Tank 2	482 Laurel Bay
265 Beech Tank 3	517 Laurel Bay
275 Birch	586 Aster
277 Birch Tank 1	632 Dahlia
285 Birch	639 Dahlia Tank 2
292 Birch Tank 3	643 Dahlia Tank 1
297 Birch	644 Dahlia Tank 1
301 Ash	644 Dahlia Tank 2
306 Ash	646 Dahlia Tank 1
310 Ash Tank 1	646 Dahlia Tank 2
313 Ash	665 Camellia
315 Ash Tank 2	699 Abelia
316 Ash	744 Blue Bell
319 Ash	745 Blue Bell Tank 1
320 Ash	747 Blue Bell Tank 1
321 Ash	747 Blue Bell Tank 2
329 Ash	747 Blue Bell Tank 3
330 Ash Tank 2	749 Blue Bell Tank 1
331 Ash	749 Blue Bell Tank 2
332 Ash	751 Blue Bell
333 Ash	762 Althea
335 Ash Tank 1	765 Althea Tank 2
335 Ash Tank 2	766 Althea Tank 4
341 Ash	767 Althea Tank 1
342 Ash Tank 1	768 Althea Tank 2
342 Ash Tank 2	768 Althea Tank 3

Laurel Bay Underground Storage Tank Assessment Reports for: (98 addresses/110 tanks) cont.

768 Althea Tank 4	1067 Gardenia
769 Althea Tank 1	1077 Heather
769 Althea Tank 2	1081 Heather
775 Althea	1101 Iris Tank 2
819 Azalea	1104 Iris
840 Azalea	1105 Iris Tank 2
878 Cobia	1124 Iris Tank 2
891 Cobia	1142 Iris Tank 2
913 Barracuda	1146 Iris Tank 2
916 Barracuda	1218 Cardinal
923 Albacore	1240 Dove
1004 Bobwhite	1266 Dove
1022 Foxglove	1292 Eagle
1031 Foxglove	1299 Eagle Tank 1
1034 Foxglove Tank 2	1302 Eagle
1061 Gardenia Tank 3	1336 Albatross
1064 Gardenia	1351 Cardinal



Catherine E. Heigel. Director Promoting and protecting the health of the public and the environment

> Division of Waste Management Bureau of Land and Waste Management

June 8, 2016

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

RE: Approval and Concurrence with Draft Final Initial Groundwater Investigation Report-November and December 2015 Laurel Bay Military Housing Area Multiple Properties Dated April 2015

Dear Mr. Drawdy,

The South Carolina Department of Health and Environmental Control (the Department) received groundwater data in the above referenced Groundwater Investigation Report for the attached addresses on May 2, 2016. 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).

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, permanent wells should be installed at the 15 stated addresses. For the remaining 80 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 <u>petruslb@dhec.sc.gov</u> or 803-898-0294.

Sincerely,

LIT

Laurel Petrus RCRA Federal Facilities Section

Attachment: Specific Property Recommendations

Cc: Russell Berry, EQC Region 8 (via email) Shawn Dolan, Resolution Consultants (via email) Bryan Beck, NAVFAC MIDATLANTIC (via email) Craig Ehde (via email) Attachment to: Petrus to Drawdy

Subject: Draft Final Initial Groundwater Investigation Report-November and December 2015 Specific Property Recommendations Dated June 8, 2016

Draft Final Initial Groundwater Investigation Report for (95 addresses)

Permanent Mon	itoring Well Investigation recommendation (15 addresses)
130 Banyan Drive	473 Dogwood Drive
256 Beech Street	747 Blue Bell Lane
285 Birch Drive	749 Blue Bell Lane
292 Birch Drive	775 Althea Street
330 Ash Street	1034 Foxglove Street
331 Ash Street	1104 Iris Lane
335 Ash Street	1124 Iris Lane
342 Ash Street	

118 Banyan Drive	644 Dahlia Drive	
126 Banyan Drive	646 Dahlia Drive	
127 Banyan Drive	665 Camellia Drive	
141 Laurel Bay Blvd	699 Abelia Street	
151 Laurel Bay Blvd	744 Blue Bell Lane	
224 Cypress Street	745 Blue Bell Lane	
227 Cypress Street	751 Blue Bell Lane	
257 Beech Street	762 Althea Street	
264 Beech Street	765 Althea Street	
265 Beech Street	766 Althea Street	
275 Birch Drive	767 Althea Street	
277 Birch Drive	768 Althea Street	
297 Birch Drive	769 Althea Street	
301 Ash Street	819 Azalea Drive	
306 Ash Street	840 Azalea Drive	
310 Ash Street	878 Cobia Drive	
313 Ash Street	891 Cobia Drive	
315 Ash Street	913 Barracuda Drive	
316 Ash Street	916 Barracuda Drive	
319 Ash Street	923 Wren Lane	
320 Ash Street	1004 Bobwhite Drive	
321 Ash Street	1022 Foxglove Street	
329 Ash Street	1031 Foxglove Street	
332 Ash Street	1061 Gardenia Drive	
333 Ash Street	1064 Gardenia Drive	
341 Ash Street	1067 Gardenia Drive	
347 Ash Street	1077 Heather Street	
378 Aspen Street	1081 Heather Street	
379 Aspen Street	1101 Iris Lane	
382 Aspen Street	1105 Iris Lane	
394 Acorn Street	1142 Iris Lane	
400 Elderberry Drive	1146 Iris Lane	
432 Elderberry Drive	1218 Cardinal Lane	
436 Elderberry Drive	1240 Dove Lane	
482 Laurel Bay Blvd	1266 Dove Lane	
517 Laurel Bay Blvd	1292 Eagle Lane	
586 Aster Street	1299 Eagle Lane	
632 Dahlia Drive	1302 Eagle Lane	
639 Dahlia Drive	1336 Albatross Drive	
643 Dahlia Drive	1351 Cardinal Lane	

Attachment to: Petrus to Drawdy Subject: Draft Final Initial Groundwater Investigation Report-November and December 2015 Specific Property Recommendations Dated June 8, 2016, Page 2