SUMMARY REPORT
101 BIRCH ROAD (FORMERLY 276 BIRCH ROAD)
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

SUMMARY REPORT
101 BIRCH ROAD (FORMERLY 276 BIRCH ROAD)
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

Prepared by:

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

Contract Number: N62470-14-D-9016
CTO WE52
JUNE 2021

Table of Contents

1.0 INTRODUCTION 1

1.1 Background Information 1
1.2 UST Removal and Assessment Process 2

2.0 SAMPLING ACTIVITIES AND RESULTS 3

2.1 UST Removal and Soil Sampling 3
2.2 Soil Analytical Results 4
2.3 Groundwater Sampling 4
2.4 Groundwater Analytical Results 5

3.0 PROPERTY STATUS 5

4.0 REFERENCES 6

Tables

Table 1 Laboratory Analytical Results - Soil
Table 2 Laboratory Analytical Results - Groundwater

Appendices

Appendix A Multi-Media Selection Process for LBMH
Appendix B UST Assessment Reports
Appendix C Laboratory Analytical Report - Groundwater
Appendix D Regulatory Correspondence

List of Acronyms

bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
CTO	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 101 Birch Road (Formerly 276 Birch Road). 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, February 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, February 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, April 2013) and were revised again in Revision 3.0 (SCDHEC, May 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 101 Birch Road (Formerly 276 Birch Road). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 276 Birch Road* (MCAS Beaufort, 2008) and *SCDHEC UST Assessment Report – 276 Birch Road* (MCAS Beaufort, 2012). The UST Assessment Reports are provided in Appendix B. Details regarding the IGWA sampling activities at this site are provided in the *Investigation of Ground Water at Leaking Heating Oil UST Sites Report* – (Resolution Consultants, 2008) and *Initial Groundwater Investigation Report – May and June 2015* (Resolution Consultants, 2015). The laboratory reports that include the pertinent IGWA analytical results for this site is presented in Appendix C.

2.1 UST Removal and Soil Sampling

In July 2007 and October 2011, two 280 gallon heating oil USTs were removed at 101 Birch Road (Formerly 276 Birch Road). Tank 1 was removed on July 17, 2007 from underneath the

concrete driveway adjacent to the garage. Tank 2 was removed on October 18, 2011 from the front landscaped bed area adjacent to the front concrete porch. The former UST locations are indicated in the figures of the UST Assessment Reports (Appendix B). The USTs were 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 Reports (Appendix B), the depths to the bases of the USTs were 5'6" (Tank 1) and 4'0" (Tank 2) bgs and a single soil sample was collected for each at that depth. An additional soil sample was collected from the side of the excavation at a depth of 4'8" for Tank 1. The samples were collected from the fill port side of the former USTs to represent a worst case scenario.

Following UST removal, a soil sample was collected from the base of each excavation and the side in the excavation for Tank 1 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 are presented in Table 1. A copy of the laboratory analytical data reports are included in the UST Assessment Reports presented in Appendix B. The laboratory analytical data reports include 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 locations (Tanks 1 and 2) 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 the former UST locations (Tanks 1 and 2) at 101 Birch Road (Formerly 276 Birch Road) were greater than the SCDHEC RBSLs, which indicated further investigation was required. In letters dated September 3, 2008 and May 15, 2014 regarding Tank 1 and Tank 2, respectively, SCDHEC requested IGWAs be conducted at the former UST locations (Tanks 1 and 2) 101 Birch Road (Formerly 276 Birch Road) to determine if the groundwater was impacted by petroleum COPCs. SCDHEC's request letters are provided in Appendix D.

2.3 Groundwater Sampling

On July 30, 2008 and May 21, 2015, temporary monitoring wells were installed at 101 Birch Road (Formerly 276 Birch Road), in accordance with the South Carolina Well Standards and

Regulations (R.61-71.H-I, updated May 27, 2016). In order to provide data that can be used to determine whether COPCs are migrating to underlying groundwater, the monitoring wells were placed in the same general location as the former heating oil USTs (Tanks 1 and 2). The former UST locations are indicated in the figures of the UST Assessment Reports (Appendix B). Further details are provided in the *Investigation of Ground Water at Leaking Heating Oil UST Sites Report* (Resolution Consultants, 2008) and the *Initial Groundwater Investigation Report – May and June 2015* (Resolution Consultants, 2015).

The sampling strategy for this phase of the investigation required a one-time sampling event of the temporarily installed monitoring wells. 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, May 2016). Field forms are provided in the *Investigation of Ground Water at Leaking Heating Oil UST Sites Report* (Resolution Consultants, 2008) and the *Initial Groundwater Investigation Report – May and June 2015* (Resolution Consultants, 2015).

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 101 Birch Road (Formerly 276 Birch Road) 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 USTs 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 101 Birch Road (Formerly 276 Birch Road). This NFA determination was obtained in letters dated November 20, 2008 and February 22, 2016, regarding Tank 1 and Tank 2, respectively. SCDHEC's NFA letters are provided in Appendix D.

4.0 REFERENCES

Marine Corps Air Station Beaufort, 2008. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 276 Birch Road, Laurel Bay Military Housing Area*, January 2008.

Marine Corps Air Station Beaufort, 2012. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 276 Birch Road, Laurel Bay Military Housing Area*, February 2012.

Resolution Consultants, 2008. *Investigation of Ground Water at Leaking Heating Oil UST Sites Report for Laurel Bay Military Housing Area, Multiple Properties, Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort, Beaufort, South Carolina*, November 2008.

Resolution Consultants, 2015. *Initial Groundwater Investigation Report – May and June 2015 for Laurel Bay Military Housing Area, Multiple Properties, Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort, Beaufort, South Carolina*, October 2015.

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

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2015. *Quality Assurance Program Plan for the Underground Storage Tank Management* Division*, Revision 3.0*, May 2015.

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2016. *Quality Assurance Program Plan for the Underground Storage Tank Management* Division*, Revision 3.1*, February 2016.

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2017. *R.61-92, Part 280, Underground Storage Tank Control Regulations*, March 2017.

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2018. *Underground Storage Tank Assessment Instructions for Permanent Closure and Change-In-Service*, March 2018.

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

Tables

Table 1
Laboratory Analytical Results - Soil
101 Birch Road (Formerly 276 Birch Road)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs [1]	Results Samples Collected 07/17/07 and 10/18/11		
		276 Birch Bottom 01 07/17/07	276 Birch Side 02 07/17/07	276 Birch 10/18/11
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)				
Benzene	0.003	ND	**0.000396**	**0.0130**
Ethylbenzene	1.15	**0.00014**	**0.000419**	**0.996**
Naphthalene	0.036	**0.00155**	**0.0102**	**9.52**
Toluene	0.627	ND	ND	ND
Xylenes, Total	13.01	ND	ND	**1.10**
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (mg/kg)				
Benzo(a)anthracene	0.66	**0.849**	**11**	ND
Benzo(b)fluoranthene	0.66	**0.690**	**7.080**	ND
Benzo(k)fluoranthene	0.66	**0.330**	**2.950**	ND
Chrysene	0.66	**0.761**	**7.230**	ND
Dibenz(a,h)anthracene	0.66	ND	**0.118**	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).

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
101 Birch Road (Formerly 276 Birch Road)
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 Samples Collected 07/30/08 and 05/21/15	
			276 Birch A 07/30/08	276 Birch Drive 05/21/15
Volatile Organic Compounds Analyzed by EPA Method 8260B (µg/L)				
Benzene	5	16.24	ND	ND
Ethylbenzene	700	45.95	ND	ND
Naphthalene	25	29.33	ND	ND
Toluene	1000	105,445	ND	ND
Xylenes, Total	10,000	2,133	ND	ND
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (µg/L)				
Benzo(a)anthracene	10	NA	ND	ND
Benzo(b)fluoranthene	10	NA	ND	ND
Benzo(k)fluoranthene	10	NA	ND	ND
Chrysene	10	NA	ND	ND
Dibenz(a,h)anthracene	10	NA	ND	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

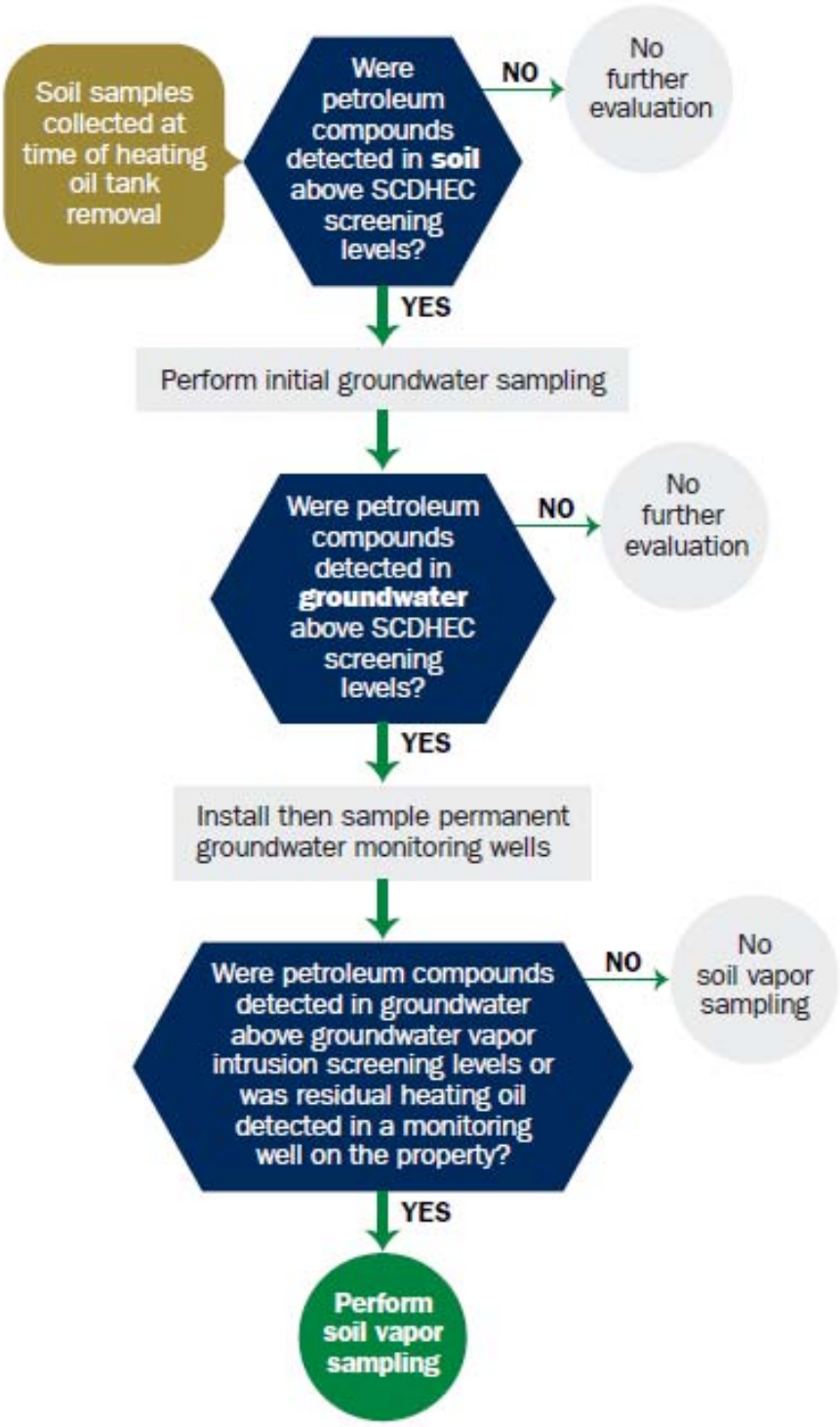
SCDHEC - South Carolina Department Of Health and Environmental Control

µg/L - micrograms per liter

VISL - Vapor Intrusion Screening Level

Appendix A
Multi-Media Selection Process for LBMH

CDM - AECOM
Multimedia Joint Venture



Appendix A - Multi-Media Selection Process for LBMH

Appendix B
UST Assessment Reports

CDM - AECOM
Multimedia Joint Venture

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) 896-6240

I. OWNERSHIP OF UST (S)

Beaufort Military Complex Family Housing
Owner Name (Corporation, Individual, Public Agency, Other)

1510 Laurel Bay Blvd.
Mailing Address

Beaufort | SC | 29906
City | State | Zip Code

843 | 379-3305 | Kyle Broadfoot
Area Code | Telephone Number | Contact Person

II. SITE IDENTIFICATION AND LOCATION

N/A
Permit I.D. #

Actus Lend Lease Construction
Facility Name or Company Site Identifier

276 Birch
Street Address or State Road (as applicable)

Beaufort, SC | 29906 | Beaufort
City | ZIP | County

Attachment 2

III. INSURANCE INFORMATION

Insurance Statement

The petroleum release reported to DHEC on N/A at Permit ID # 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.

And

I **do/do not** (circle one) wish to participate in the Superb Program.

IV. CERTIFICATION (To be signed by the UST owner/operator.)

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

...FORMATION

		Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
A.	Product...(ex. Gas, Kerosene).....	#2 DIESEL					
B.	Capacity..(ex. 1k, 2k).....(APPROX.)	350g.					
C.	Age.....						
D.	Construction Material..(ex. Steel, FRP).....	Steel					
E.	Month/Year of Last Use.....						
F.	Depth (ft.) To Base of Tank.....	66"					
G.	Spill Prevention Equipment Y/N.....	N					
H.	Overfill Prevention Equipment Y/N.....	N					
I.	Method of Closure (Removed/Filled).....	Removed					
J.	Date Tanks Removed/Filled.....	7-17-07					
K.	Visible Corrosion or Pitting Y/N.....	N					
L.	Visible Holes Y/N.....	N					

M. Method of disposal for any USTs removed from the ground (attach disposal manifests)

Recycling - Scrap Steel

N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests)

TREATMENT FACILITY - Broadwest Landfill
Solidification and Subtitle D Landfill

O. If any corrosion, pitting, or holes were observed, describe the location and extent for each UST

VI. PIP G INFORMATION

	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
A. Construction Material..(ex. Steel, FRP).....	Steel					
B. Distance from UST to Dispenser.....	N/A					
C. Number of Dispensers.....	-0-					
D. Type of System Pressure or Suction.....	Electric Pump					
E. Was Piping Removed from the Ground? Y/N	Y					
F. Visible Corrosion or Pitting Y/N.....	N					
G. Visible Holes Y/N.....	N					
H. Age.....						

I. If any corrosion, pitting, or holes were observed, describe the location and extent for each piping run.

Mild Corrosion was on fill Pipe & Vent Pipe

VII. BRIEF SITE DESCRIPTION AND HISTORY

Home Heating Oil Tank - Residential

VIII. SITE CO. ITIONS

	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.		X	
B. Were any petroleum odors detected in the excavation, soil borings, trenches, or monitoring wells? If yes, indicate location on site map and describe the odor (strong, mild, etc.)		X	
C. Was water present in the UST excavation, soil borings, or trenches? If yes, how far below land surface (indicate location and depth)?		X	
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:		X	
E. Was a petroleum sheen or free product detected on any excavation or boring waters? If yes, indicate location and thickness.		X	

IX. S IPLE INFORMATION

A. SCDHEC Lab Certification Number DW: 84009002

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
						ECHEVARRIA	
1	BOTTOM	S	SAND	66"	7-17-07 1300	[illegible]	ND
2	SIDE	S	SAND	56"	1310	[illegible]	ND
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

* = Depth Below the Surrounding Land Surface

X. SAMPLING METHODOLOGY

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

EPA Method 8260 B Volatile Organic Compounds
- Preservative: 2 ea Sodium Bisulfate 1 ea
EPA Method 8270 Poly Aromatic Hydrocarbons
- No Preservative

One (1) Sidewall and One (1) Bottom Sample were secured from tank excavation Samples were stored and shipped in an insulated cooler w/ ice.

XI. RECE ORS

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

SUMMARY OF ANALYSIS RESULTS N/A

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

CoC	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8
Benzene								
Toluene								
Ethylbenzene								
Xylenes								
Naphthalene								
Benzo(a)anthracene								
Benzo(b)flouranthene								
Benzo(k)flouranthene								
Chrysene								
Dibenz(a,h)anthracene								
TPH (EPA 3550)								

CoC	SB-9	SB-10	SB-11	SB-12	SB-13	SB-14	SB-15	SB-16
Benzene								
Toluene								
Ethylbenzene								
Xylenes								
Naphthalene								
Benzo(a)anthracene								
Benzo(b)flouranthene								
Benzo(k)flouranthene								
Chrysene								
Dibenz(a,h)anthracene								
TPH (EPA 3550)								

SUMMARY OF ANALYSIS RESULTS (cont'd) N/A

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				
MTBE	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	.05				
Lead	Site specific				

ANALYTICAL RESULTS

You must submit the laboratory report and chain-of-custody form for the samples. These samples must be analyzed by a South Carolina certified laboratory.

(Attach Certified Analytical Results and Chain-of-Custody Here)
(Please see Form #4)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
4310 East Anderson Road Orlando, FL 32812 * 800-851-2560 * Fax 407-856-0686

Client: EPG, INC.
PO BOX 1096
MT PLEASANT, SC 29465
Attn: JOHN MAHONEY

Work Order: OQG0504
Project: LAUREL BAY
Project Number: EP2362

Sampled: 07/16/07-07/20/07
Received: 07/25/07

LABORATORY REPORT
Sample ID: 1019 FOXGLOVE SIDE 02 - Lab Number: OQG0504-06 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Polynuclear Aromatic Hydrocarbons by EPA Method 8270 - Cont.											
0-12-0	1-Methylnaphthalene	99.2	U	ug/kg dry	99.2	198	1	07/30/07 23:27	REM	EPA 8270C	7G27018
18-01-9	Chrysene	23.6	U	ug/kg dry	23.6	198	1	07/30/07 23:27	REM	EPA 8270C	7G27018
3-70-3	Dibenz (a,h) anthracene	25.9	U	ug/kg dry	25.9	198	1	07/30/07 23:27	REM	EPA 8270C	7G27018
06-44-0	Fluoranthene	28.4	U	ug/kg dry	28.4	198	1	07/30/07 23:27	REM	EPA 8270C	7G27018
6-73-7	Fluorene	77.3	U	ug/kg dry	77.3	198	1	07/30/07 23:27	REM	EPA 8270C	7G27018
93-39-5	Indeno (1,2,3-cd) pyrene	25.6	U	ug/kg dry	25.6	198	1	07/30/07 23:27	REM	EPA 8270C	7G27018
1-57-6	2-Methylnaphthalene	84.3	U	ug/kg dry	84.3	198	1	07/30/07 23:27	REM	EPA 8270C	7G27018
1-20-3	Naphthalene	79.4	U	ug/kg dry	79.4	198	1	07/30/07 23:27	REM	EPA 8270C	7G27018
5-01-8	Phenanthrene	46.6	U	ug/kg dry	46.6	198	1	07/30/07 23:27	REM	EPA 8270C	7G27018
29-00-0	Pyrene	40.1	U	ug/kg dry	40.1	198	1	07/30/07 23:27	REM	EPA 8270C	7G27018
urrogate: 2-Fluorobiphenyl (24-121%)		*68 %*									
urrogate: Nitrobenzene-d5 (19-111%)		*67 %*									
urrogate: Terphenyl-d14 (44-171%)		*119 %*									

LABORATORY REPORT
Sample ID: 276 BIRCH BOTTOM 01 - Lab Number: OQG0504-07 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
General Chemistry Parameters											
A	**% Solids**	**81.8**	Q	%.	0.100	0.100	1	07/25/07 16:55	RRP	EPA 160.3	7G25041
Volatile Organic Compounds by EPA Method 8260B											
1-43-2	Benzene	0.107	U	ug/kg dry	0.107	0.292	1	07/25/07 23:52	JWT	EPA 8260B	7G26028
00-41-4	**Ethylbenzene**	**0.140**	I	ug/kg dry	0.123	0.292	1	07/25/07 23:52	JWT	EPA 8260B	7G26028
-20-3	**Naphthalene**	**1.55**		ug/kg dry	0.161	0.292	1	07/25/07 23:52	JWT	EPA 8260B	7G26028
08-88-3	Toluene	0.252	U	ug/kg dry	0.252	0.292	1	07/25/07 23:52	JWT	EPA 8260B	7G26028
330-20-7	Xylenes, total	0.152	U	ug/kg dry	0.152	0.292	1	07/25/07 23:52	JWT	EPA 8260B	7G26028
rrogate: 1,2-Dichloroethane-d4 (73-137%)		*125 %*									
rrogate: 4-Bromofluorobenzene (59-118%)		*93 %*									
rrogate: Dibromofluoromethane (55-145%)		*108 %*									
rrogate: Toluene-d8 (80-117%)		*100 %*									
olynuclear Aromatic Hydrocarbons by EPA Method 8270											
-32-9	Acenaphthene	90.4	U	ug/kg dry	90.4	204	1	07/30/07 23:49	REM	EPA 8270C	7G27018
8-96-8	Acenaphthylene	119	U	ug/kg dry	119	204	1	07/30/07 23:49	REM	EPA 8270C	7G27018
0-12-7	**Anthracene**	**201**	I	ug/kg dry	65.1	204	1	07/30/07 23:49	REM	EPA 8270C	7G27018
-55-3	**Benzo (a) anthracene**	**849**		ug/kg dry	22.1	204	1	07/30/07 23:49	REM	EPA 8270C	7G27018
5-99-2	**Benzo (b) fluoranthene**	**690**		ug/kg dry	21.5	204	1	07/30/07 23:49	REM	EPA 8270C	7G27018
7-08-9	**Benzo (k) fluoranthene**	**330**		ug/kg dry	21.5	204	1	07/30/07 23:49	REM	EPA 8270C	7G27018
1-24-2	**Benzo (g,h,i) perylene**	**121**	I	ug/kg dry	21.2	204	1	07/30/07 23:49	REM	EPA 8270C	7G27018
-32-8	**Benzo (a) pyrene**	**407**		ug/kg dry	25.1	204	1	07/30/07 23:49	REM	EPA 8270C	7G27018
-12-0	1-Methylnaphthalene	102	U	ug/kg dry	102	204	1	07/30/07 23:49	REM	EPA 8270C	7G27018
8-01-9	**Chrysene**	**761**		ug/kg dry	24.4	204	1	07/30/07 23:49	REM	EPA 8270C	7G27018
-70-3	Dibenz (a,h) anthracene	26.8	U	ug/kg dry	26.8	204	1	07/30/07 23:49	REM	EPA 8270C	7G27018
5-44-0	**Fluoranthene**	**1640**		ug/kg dry	29.4	204	1	07/30/07 23:49	REM	EPA 8270C	7G27018

TestAmerica - Orlando, FL
Enid Ortiz For Shali Brown
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
4310 East Anderson Road Orlando, FL 32812 * 800-851-2560 * Fax 407-856-0886

Client: EPG, INC.
PO BOX 1096
MT PLEASANT, SC 29465
Attn: JOHN MAHONEY

Work Order: OQG0504
Project: LAUREL BAY
Project Number: EP2362

Sampled: 07/16/07-07/20/07
Received: 07/25/07

LABORATORY REPORT
Sample ID: 276 BIRCH BOTTOM 01 - Lab Number: OQG0504-07 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Polynuclear Aromatic Hydrocarbons by EPA Method 8270 - Cont.											
6-73-7	Fluorene	79.9	U	ug/kg dry	79.9	204	1	07/30/07 23:49	REM	EPA 8270C	7G27018
93-39-5	**Indeno (1,2,3-cd) pyrene**	**143**	I	ug/kg dry	26.4	204	1	07/30/07 23:49	REM	EPA 8270C	7G27018
1-57-6	2-Methylnaphthalene	87.0	U	ug/kg dry	87.0	204	1	07/30/07 23:49	REM	EPA 8270C	7G27018
1-20-3	Naphthalene	82.0	U	ug/kg dry	82.0	204	1	07/30/07 23:49	REM	EPA 8270C	7G27018
5-01-8	**Phenanthrene**	**93.3**	I	ug/kg dry	48.1	204	1	07/30/07 23:49	REM	EPA 8270C	7G27018
29-00-0	**Pyrene**	**1640**		ug/kg dry	41.5	204	1	07/30/07 23:49	REM	EPA 8270C	7G27018
urrogate: 2-Fluorobiphenyl (24-121%)		*69 %*									
urrogate: Nitrobenzene-d5 (19-111%)		*71 %*									
urrogate: Terphenyl-d14 (44-171%)		*127 %*									

LABORATORY REPORT
Sample ID: 276 BIRCH SIDE 02 - Lab Number: OQG0504-08 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
General Chemistry Parameters											
A	**% Solids**	**77.2**	Q	%.	0.100	0.100	1	07/25/07 16:55	RRP	EPA 160.3	7G25041
Volatile Organic Compounds by EPA Method 8260B											
1-43-2	**Benzene**	**0.396**		ug/kg dry	0.104	0.283	1	07/26/07 00:10	JWT	EPA 8260B	7G26028
00-41-4	**Ethylbenzene**	**0.419**		ug/kg dry	0.120	0.283	1	07/26/07 00:10	JWT	EPA 8260B	7G26028
1-20-3	**Naphthalene**	**10.2**		ug/kg dry	0.156	0.283	1	07/26/07 00:10	JWT	EPA 8260B	7G26028
08-88-3	Toluene	0.244	U	ug/kg dry	0.244	0.283	1	07/26/07 00:10	JWT	EPA 8260B	7G26028
330-20-7	Xylenes, total	0.147	U	ug/kg dry	0.147	0.283	1	07/26/07 00:10	JWT	EPA 8260B	7G26028
urrogate: 1,2-Dichloroethane-d4 (73-137%)		*115 %*									
urrogate: 4-Bromofluorobenzene (59-118%)		*48 %*	JI								
urrogate: Dibromofluoromethane (55-145%)		*107 %*									
urrogate: Toluene-d8 (80-117%)		*88 %*									
olynuclear Aromatic Hydrocarbons by EPA Method 8270											
1-32-9	**Acenaphthene**	**235**		ug/kg dry	95.8	216	1	07/31/07 00:12	REM	EPA 8270C	7G27018
08-96-8	Acenaphthylene	126	U	ug/kg dry	126	216	1	07/31/07 00:12	REM	EPA 8270C	7G27018
20-12-7	**Anthracene**	**2180**		ug/kg dry	68.9	216	1	07/31/07 00:12	REM	EPA 8270C	7G27018
6-55-3	**Benzo (a) anthracene**	**11000**		ug/kg dry	117	1080	5	07/31/07 10:40	REM	EPA 8270C	7G27018
05-99-2	**Benzo (b) fluoranthene**	**7080**		ug/kg dry	22.8	216	1	07/31/07 00:12	REM	EPA 8270C	7G27018
07-08-9	**Benzo (k) fluoranthene**	**2950**		ug/kg dry	22.8	216	1	07/31/07 00:12	REM	EPA 8270C	7G27018
91-24-2	**Benzo (g,h,i) perylene**	**1180**		ug/kg dry	22.4	216	1	07/31/07 00:12	REM	EPA 8270C	7G27018
6-32-8	**Benzo (a) pyrene**	**4000**		ug/kg dry	26.6	216	1	07/31/07 00:12	REM	EPA 8270C	7G27018
6-12-0	**1-Methylnaphthalene**	**122**	I	ug/kg dry	109	216	1	07/31/07 00:12	REM	EPA 8270C	7G27018
18-01-9	**Chrysene**	**7230**		ug/kg dry	25.9	216	1	07/31/07 00:12	REM	EPA 8270C	7G27018
0-70-3	**Dibenz (a,h) anthracene**	**118**	I	ug/kg dry	28.4	216	1	07/31/07 00:12	REM	EPA 8270C	7G27018
6-44-0	**Fluoranthene**	**21800**		ug/kg dry	155	1080	5	07/31/07 10:40	REM	EPA 8270C	7G27018
0-73-7	Fluorene	84.6	U	ug/kg dry	84.6	216	1	07/31/07 00:12	REM	EPA 8270C	7G27018
3-39-5	**Indeno (1,2,3-cd) pyrene**	**1210**		ug/kg dry	28.0	216	1	07/31/07 00:12	REM	EPA 8270C	7G27018
0-57-6	**2-Methylnaphthalene**	**101**	I	ug/kg dry	92.2	216	1	07/31/07 00:12	REM	EPA 8270C	7G27018

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
4310 East Anderson Road Orlando, FL 32812 * 800-851-2560 * Fax 407-856-0886

Client: EPG, INC.
PO BOX 1096
MT PLEASANT, SC 29465
Attn: JOHN MAHONEY

Work Order: OQG0504
Project: LAUREL BAY
Project Number: EP2362

Sampled: 07/16/07-07/20/07
Received: 07/25/07

LABORATORY REPORT
Sample ID: 276 BIRCH SIDE 02 - Lab Number: OQG0504-08 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Polynuclear Aromatic Hydrocarbons by EPA Method 8270 - Cont.											
'1-20-3	Naphthalene	86.8	U	ug/kg dry	86.8	216	1	07/31/07 00:12	REM	EPA 8270C	7G27018
5-01-8	**Phenanthrene**	**668**		ug/kg dry	51.0	216	1	07/31/07 00:12	REM	EPA 8270C	7G27018
29-00-0	**Pyrene**	**17400**		ug/kg dry	220	1080	5	07/31/07 10:40	REM	EPA 8270C	7G27018
'urrogate: 2-Fluorobiphenyl (24-121%)		*68 %*									
urrogate: Nitrobenzene-d5 (19-111%)		*66 %*									
urrogate: Terphenyl-d14 (44-171%)		*120 %*									

LABORATORY REPORT
Sample ID: 1011 FOXGLOVE BOTTOM 01 - Lab Number: OQG0504-09 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
'eneral Chemistry Parameters											
A	**% Solids**	**93.5**		%.	0.100	0.100	1	07/25/07 16:55	RRP	EPA 160.3	7G25041
'olatile Organic Compounds by EPA Method 8260B											
1-43-2	Benzene	0.0928	U	ug/kg dry	0.0928	0.254	1	07/26/07 00:26	JWT	EPA 8260B	7G26028
00-41-4	Ethylbenzene	0.107	U	ug/kg dry	0.107	0.254	1	07/26/07 00:26	JWT	EPA 8260B	7G26028
1-20-3	**Naphthalene**	**0.477**		ug/kg dry	0.140	0.254	1	07/26/07 00:26	JWT	EPA 8260B	7G26028
08-88-3	Toluene	0.219	U	ug/kg dry	0.219	0.254	1	07/26/07 00:26	JWT	EPA 8260B	7G26028
130-20-7	Xylenes, total	0.132	U	ug/kg dry	0.132	0.254	1	07/26/07 00:26	JWT	EPA 8260B	7G26028
irrogate: 1,2-Dichloroethane-d4 (73-137%)		*124 %*									
irrogate: 4-Bromofluorobenzene (59-118%)		*101 %*									
urrogate: Dibromofluoromethane (55-145%)		*107 %*									
irrogate: Toluene-d8 (80-117%)		*101 %*									
olynuclear Aromatic Hydrocarbons by EPA Method 8270											
-32-9	Acenaphthene	79.2	U	ug/kg dry	79.2	179	1	07/31/07 00:34	REM	EPA 8270C	7G27018
8-96-8	Acenaphthylene	105	U	ug/kg dry	105	179	1	07/31/07 00:34	REM	EPA 8270C	7G27018
0-12-7	Anthracene	57.0	U	ug/kg dry	57.0	179	1	07/31/07 00:34	REM	EPA 8270C	7G27018
-55-3	Benzo (a) anthracene	19.3	U	ug/kg dry	19.3	179	1	07/31/07 00:34	REM	EPA 8270C	7G27018
5-99-2	Benzo (b) fluoranthene	18.8	U	ug/kg dry	18.8	179	1	07/31/07 00:34	REM	EPA 8270C	7G27018
7-08-9	Benzo (k) fluoranthene	18.8	U	ug/kg dry	18.8	179	1	07/31/07 00:34	REM	EPA 8270C	7G27018
1-24-2	Benzo (g,h,i) perylene	18.5	U	ug/kg dry	18.5	179	1	07/31/07 00:34	REM	EPA 8270C	7G27018
-32-8	Benzo (a) pyrene	22.0	U	ug/kg dry	22.0	179	1	07/31/07 00:34	REM	EPA 8270C	7G27018
-12-0	1-Methylnaphthalene	89.7	U	ug/kg dry	89.7	179	1	07/31/07 00:34	REM	EPA 8270C	7G27018
8-01-9	Chrysene	21.4	U	ug/kg dry	21.4	179	1	07/31/07 00:34	REM	EPA 8270C	7G27018
-70-3	Dibenz (a,h) anthracene	23.5	U	ug/kg dry	23.5	179	1	07/31/07 00:34	REM	EPA 8270C	7G27018
5-44-0	Fluoranthene	25.7	U	ug/kg dry	25.7	179	1	07/31/07 00:34	REM	EPA 8270C	7G27018
73-7	Fluorene	69.9	U	ug/kg dry	69.9	179	1	07/31/07 00:34	REM	EPA 8270C	7G27018
3-39-5	Indeno (1,2,3-cd) pyrene	23.1	U	ug/kg dry	23.1	179	1	07/31/07 00:34	REM	EPA 8270C	7G27018
57-6	2-Methylnaphthalene	76.2	U	ug/kg dry	76.2	179	1	07/31/07 00:34	REM	EPA 8270C	7G27018
20-3	Naphthalene	71.8	U	ug/kg dry	71.8	179	1	07/31/07 00:34	REM	EPA 8270C	7G27018
01-8	Phenanthrene	42.1	U	ug/kg dry	42.1	179	1	07/31/07 00:34	REM	EPA 8270C	7G27018
)-00-0	Pyrene	36.3	U	ug/kg dry	36.3	179	1	07/31/07 00:34	REM	EPA 8270C	7G27018
rogate: 2-Fluorobiphenyl (24-121%)		*55 %*									

TestAmerica - Orlando, FL
Enid Ortiz For Shali Brown
Project Manager

Page 1 of 3 COC 0904

TestAmerica
ANALYTICAL TESTING CORPORATION

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring ____

Client Name: EPG Client #: 2411
Address:
City/State/Zip Code:
Project Manager: JOHN MAHONEY
Telephone Number: Fax:
Sampler Name: (Print Name) CHRIS ECHEVARRIA
Sampler Signature:

Project Name: LAUREL BAY
Project #: EP 2362
Site/Location ID: State:
Report To:
Invoice To:
Quote #: PO#:

TAT: X Standard; ___ Rush (surcharges may apply)
Date Needed:
Fax Results: Y N

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other	Preservation & # of Containers: HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	Analyze For: BTEX + NAPTH	PAH 8270	QC Deliverables: None / X Level 2 (Batch QC) / Level 3 / Level 4 / Other	REMARKS
256 BEECH BOTTOM 01	7-16-07	1020	G							1	2	2	X	X		01
256 BEECH SIDE 02	7-16-07	1030	C							1	2	2	X	X		02
1025 FOXGLOVE BOTTOM 01	7-16-07	1420	G							1	2	2	X	X		03
1025 FOXGLOVE SIDE 02	7-16-07	1430	C							1	2	2	X	X		04
1017 FOXGLOVE BOTTOM 01	7-17-07	800	G							1	2	2	X	X		05
1017 FOXGLOVE SIDE 02	7-17-07	810	C							1	2	2	X	X		06
276 BIRCH BOTTOM 01	7-17-07	1300	G							1	2	2	X	X		07
276 BIRCH SIDE 02	7-17-07	1310	C							1	2	2	X	X		08
1011 FOXGLOVE BOTTOM 01	7-18-07	9:40	G							1	2	2	X	X		09
1011 FOXGLOVE SIDE 02	7-18-07	9:40	C							1	2	2	X	X		10

Special Instructions:

LABORATORY COMMENTS:
Init Lab Temp: 2.9
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment: FedEx FOTA-Orlando

Relinquished By	Date	Time	Received By	Date	Time
Chris Echevarria	7/24/07	0845	J Brault	7/24/07	0845
J Brault	7/24/07	1730		7/25	9:30
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

8623 2591 1596

TestAmerica
ANALYTICAL TESTING CORPORATION

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring _____

Client Name: EPG Client #: 2411
Address:
City/State/Zip Code:
Project Manager: John Mahoney
Telephone Number: Fax:
Sampler Name: (Print Name) Joseph Harry
Sampler Signature: Joseph Harry

Project Name: LAUREL BAY
Project #: EP 2362
Site/Location ID: State:
Report To:
Invoice To:
Quote #: PO#:

TAT: X Standard; ___ Rush (surcharges may apply)
Date Needed:
Fax Results: Y N

QC Deliverables: ___ None; X Level 2 (Batch QC); ___ Level 3; ___ Level 4; Other:

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other	Preservation & # of Containers: HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	Analyze For: BTEX + NAPTH 8260	PAH 8270	REMARKS
1007 Foxglove Bottom 01	7-18-07	1050	G							1	2	2	X	X	11
1007 Foxglove Side 02	7-18-07	1050	C							1	2	2	X	X	12
252 Beech Bottom 1	7-18-07	1340	G							1	2	2	X	X	13
252 Beech Side 02	7-18-07	1340	C							1	2	2	X	X	14
1100 Ris Bottom 01	7-19-07	1050	G							1	2	2	X	X	15
1100 Ris Side 02	7-19-07	1050	C							1	2	2	X	X	16
1106 Ris Bottom 01	7-19-07	1320	G							1	2	2	X	X	17
1108 Ris Side 02	7-19-07	1330	C							1	2	2	X	X	18
1112 Ris Bottom 01	7-20-07	940	G							1	2	2	X	X	19
1112 Ris Side 02	7-20-07	950	C							1	2	2	X	X	20

Special Instructions:

LABORATORY COMMENTS:
Init Lab Temp: 24
Rec Lab Temp: 2
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment: 862325911600 FEDEX TH-Orlando

Relinquished By	Date	Time	Received By	Date	Time
Chris Echevarria	7/24/07	0845		7/24/07	0845
	7/24/07	1730		7/25	9:30
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

0060504 page 34

TestAmerica
ANALYTICAL TESTING CORPORATION

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring ______

Client Name: EPG   Client #: 2411
Address:
City/State/Zip Code:
Project Manager: JOHN MAHONEY
Telephone Number: Fax:
Sampler Name: (Print Name) CHRIS ECHEVARRIA
Sampler Signature: [signature]

Project Name: LAUREL BAY
Project #: EP 2362
Site/Location ID: State:
Report To:
Invoice To:
Quote #:   PO#:

TAT: X Standard; Rush (surcharges may apply)
Date Needed:
Fax Results: Y N

QC Deliverables: None; X Level 2 (Batch QC); Level 3; Level 4; Other:

Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other

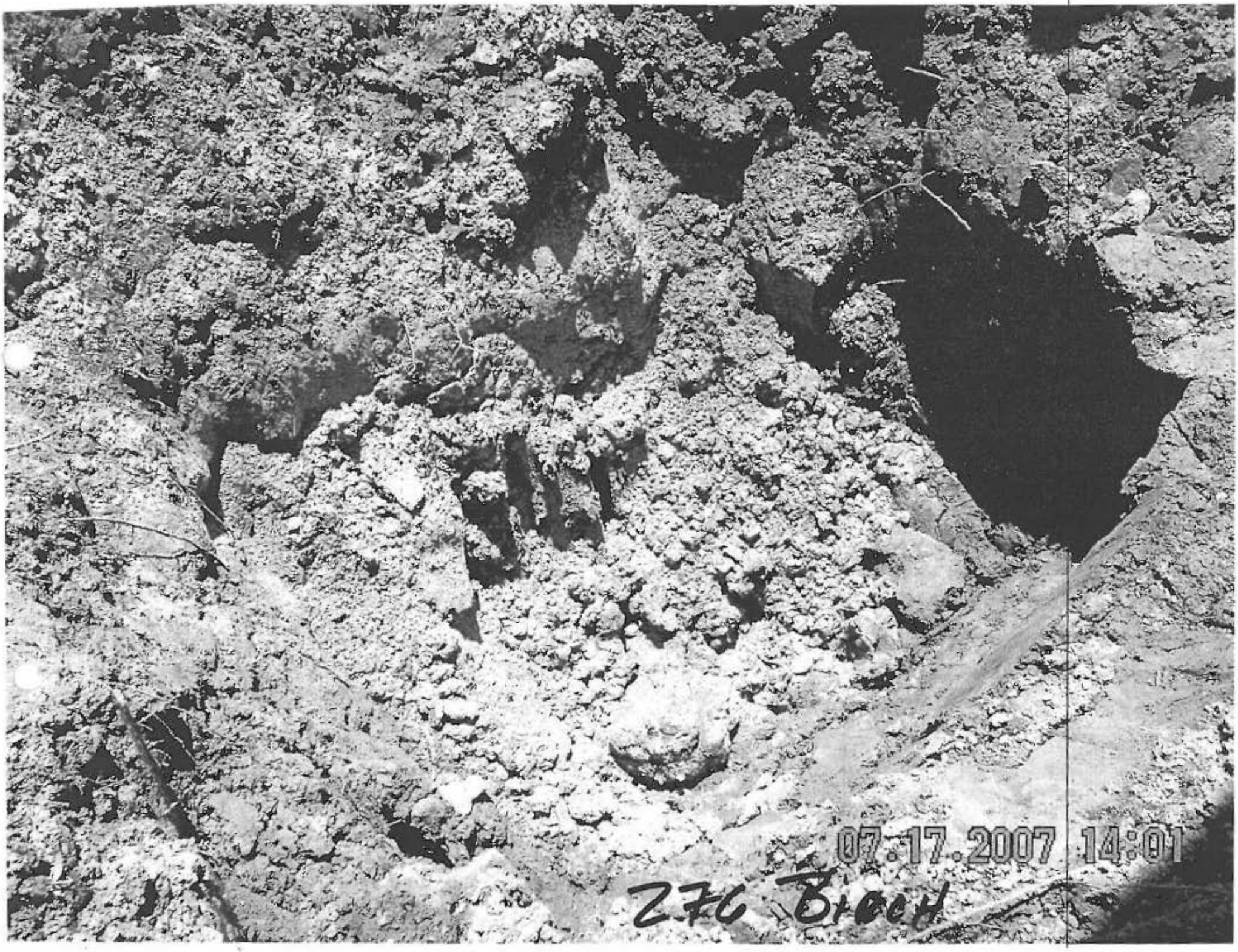
Analyze For: BTEX - NAP 8260; OIL PAH 8270

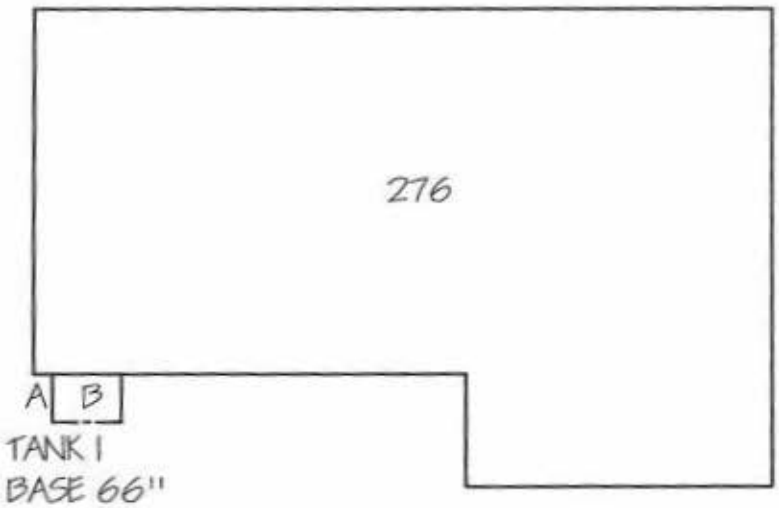
SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix	HNO3	HCl	NaOH	H2SO4	Methanol	None	Other (Specify)	BTEX - NAP 8260	OIL PAH 8270	REMARKS
1035 IRIS BOTTOM 01	7-20-07	1200	G							1	2	2	X	X	21
1035 IRIS SIDE 02	7-20-07	1210	C							1	2	2	X	X	20

Special Instructions:

Relinquished By	Date	Time	Received By	Date	Time
Chris Echevarria	7/24/07	0845	[signature]	7/24/07	0845
[signature]	7/24/07	1730	[signature]	7/25	9:30

LABORATORY COMMENTS:
Init Lab Temp: 2.9
Rec Lab Temp:
Custody Seals: (Y) N N/A
Bottles Supplied by Test America: Y N
862325911600
Method of Shipment: FEDEX to TA-Orlando


07.17.2007 14:01
276 Beech



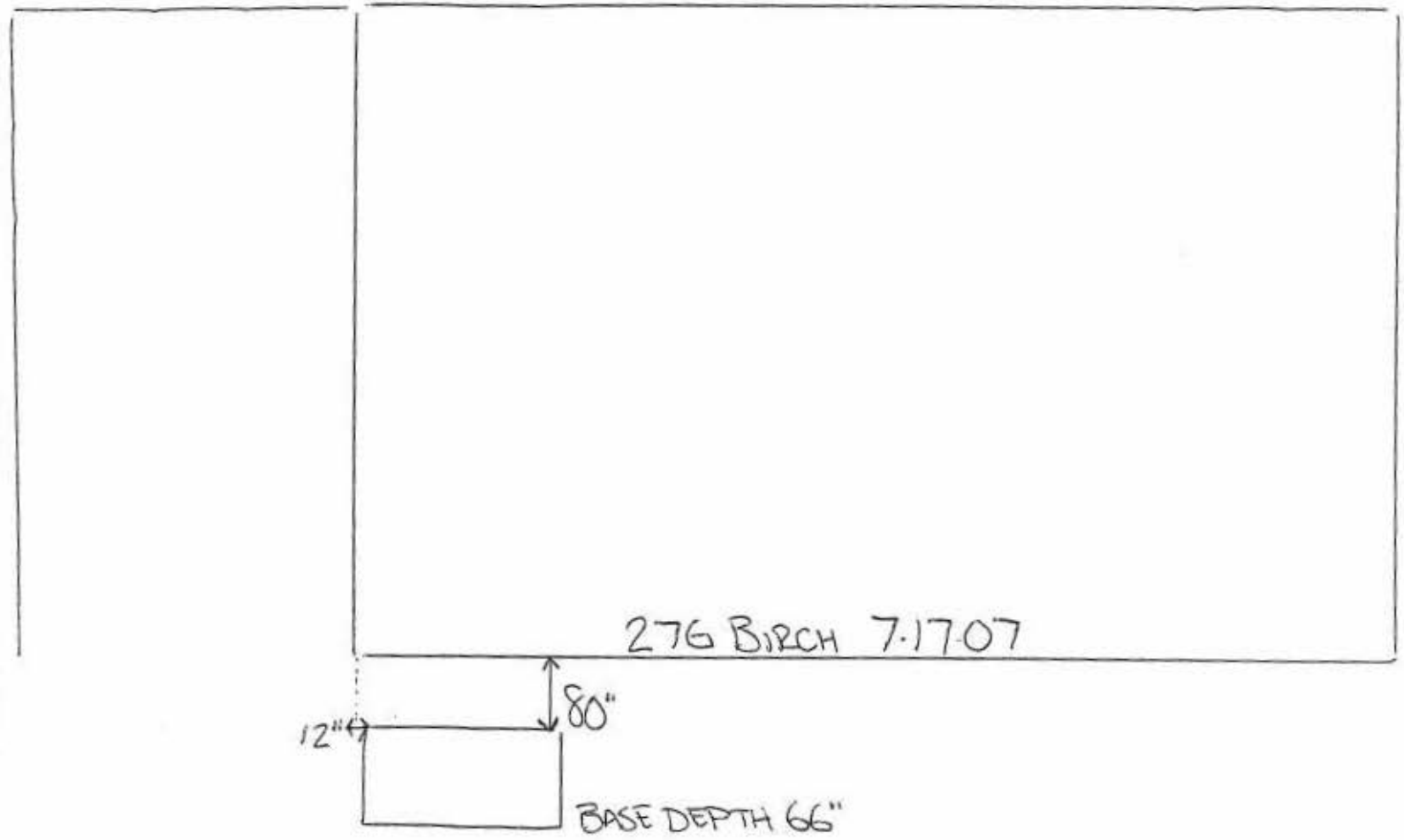
BIRCH DRIVE

N

TANK 1 EXCAVATION

A-SOIL TEST SIDE SAMPLE @ 56"
B-SOIL TEST BOTTOM SAMPLE @ 66"

CUSTOMER: BEAUFORT MILITARY COMPLEX FAMILY HOUSING	SCALE: 1/16"=1'-0"	EPG INC.
SITE ADDRESS: 276 BIRCH DRIVE	SUPPLIER: EPG INC.	P.O. BOX 1096 MOUNT PLEASANT, SC 29465-1096
	DATE: 9/22/2007	


276 BIRCH 7.17.07
80"
12"
BASE DEPTH 66"

rec'd 2/16/12

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, Commanding Officer Attn: NREAO (Craig Ehde)
Owner Name (Corporation, Individual, Public Agency, Other)

P.O. Box 55001
Mailing Address

Beaufort,	South Carolina	29904-5001
City	State	Zip Code

843	228-7317	Craig Ehde
Area Code	Telephone Number	Contact Person

II. SITE IDENTIFICATION AND LOCATION

Permit I.D. #
Laurel Bay Military Housing Area, Marine Corps Air Station, Beaufort, SC
Facility Name or Company Site Identifier

276 Birch Drive, 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

VI. UST INFORMATION

	276Birch		
A.	Heating oil		
B.	280 gal		
C.	Late 1950s		
D.	Steel		
E.	Mid 80s		
F.	4'		
G.	No		
H.	No		
I.	Removed		
J.	10/18/2011		
K.	Yes		
L.	Yes		

A. Product...(ex. Gas, Kerosene).....

B. Capacity..(ex. 1k, 2k).....

C. Age.....

D. Construction Material..(ex. Steel, FRP).....

E. Month/Year of Last Use.....

F. Depth (ft.) To Base of Tank.....

G. Spill Prevention Equipment Y/N.....

H. Overfill Prevention Equipment Y/N.....

I. Method of Closure Removed/Filled.....

J. Date Tanks Removed/Filled.....

K. Visible Corrosion or Pitting Y/N.....

L. Visible Holes Y/N.....

M. Method of disposal for any USTs removed from the ground (attach disposal manifests)
UST 276Birch 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 276Birch had been previously filled with sand by others.

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

VII. PIPING INFORMATION

	276Birch		
A. Construction Material..(ex. Steel, FRP).....	Steel & Copper		
B. Distance from UST to Dispenser.....	N/A		
C. Number of Dispensers.....	N/A		
D. Type of System Pressure or Suction.....	Suction		
E. Was Piping Removed from the Ground? Y/N	No		
F. Visible Corrosion or Pitting Y/N.....	Yes		
G. Visible Holes Y/N.....	No		
H. Age.....	Late 1950s		

I. If any corrosion, pitting, or holes were observed, describe the location and extent for each piping run.

The steel vent piping was corroded and pitted. The copper supply and return piping was sound.

VIII. BRIEF SITE DESCRIPTION AND HISTORY

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

IX. SITE CONDITIONS

	Yes	No	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.		X	
B. Were any petroleum odors detected in the excavation, soil borings, trenches, or monitoring wells? If yes, indicate location on site map and describe the odor (strong, mild, etc.)		X	
C. Was water present in the UST excavation, soil borings, or trenches? If yes, how far below land surface (indicate location and depth)?		X	
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:		X	
E. Was a petroleum sheen or free product detected on any excavation or boring waters? If yes, indicate location and thickness.		X	

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 #
276 Birch	Excav at fill end	Soil	Sandy	4'	10/18/11 1145 hrs	P. Shaw	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

* = Depth Below the Surrounding Land Surface

XI. SAMPLING METHODOLOGY

Provide a detailed description of the methods used to collect and 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.

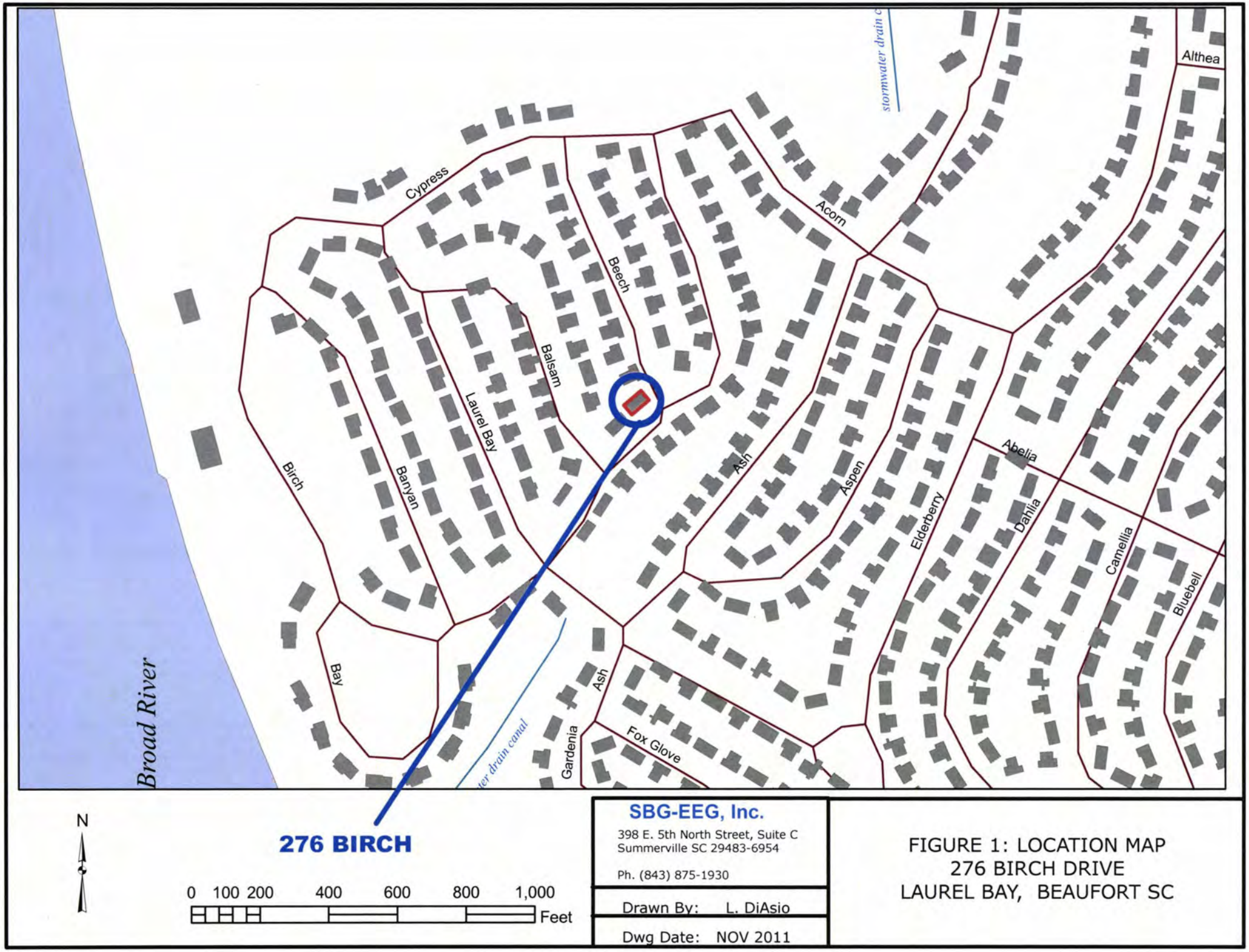
XII. RECEPTORS

	Yes	No
A. Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system? *Approx 620' to stormwater drainage canal If yes, indicate type of receptor, distance, and direction on site map.	*X	
B. Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system? If yes, indicate type of well, distance, and direction on site map.		X
C. Are there any underground structures (e.g., basements) Located within 100 feet of the UST system? If yes, indicate type of structure, distance, and direction on site map.		X
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, cable, electricity & fiber optic If yes, indicate the type of utility, distance, and direction on the site map.	*X	
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? If yes, indicate the area of contaminated soil on the site map.		X

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)

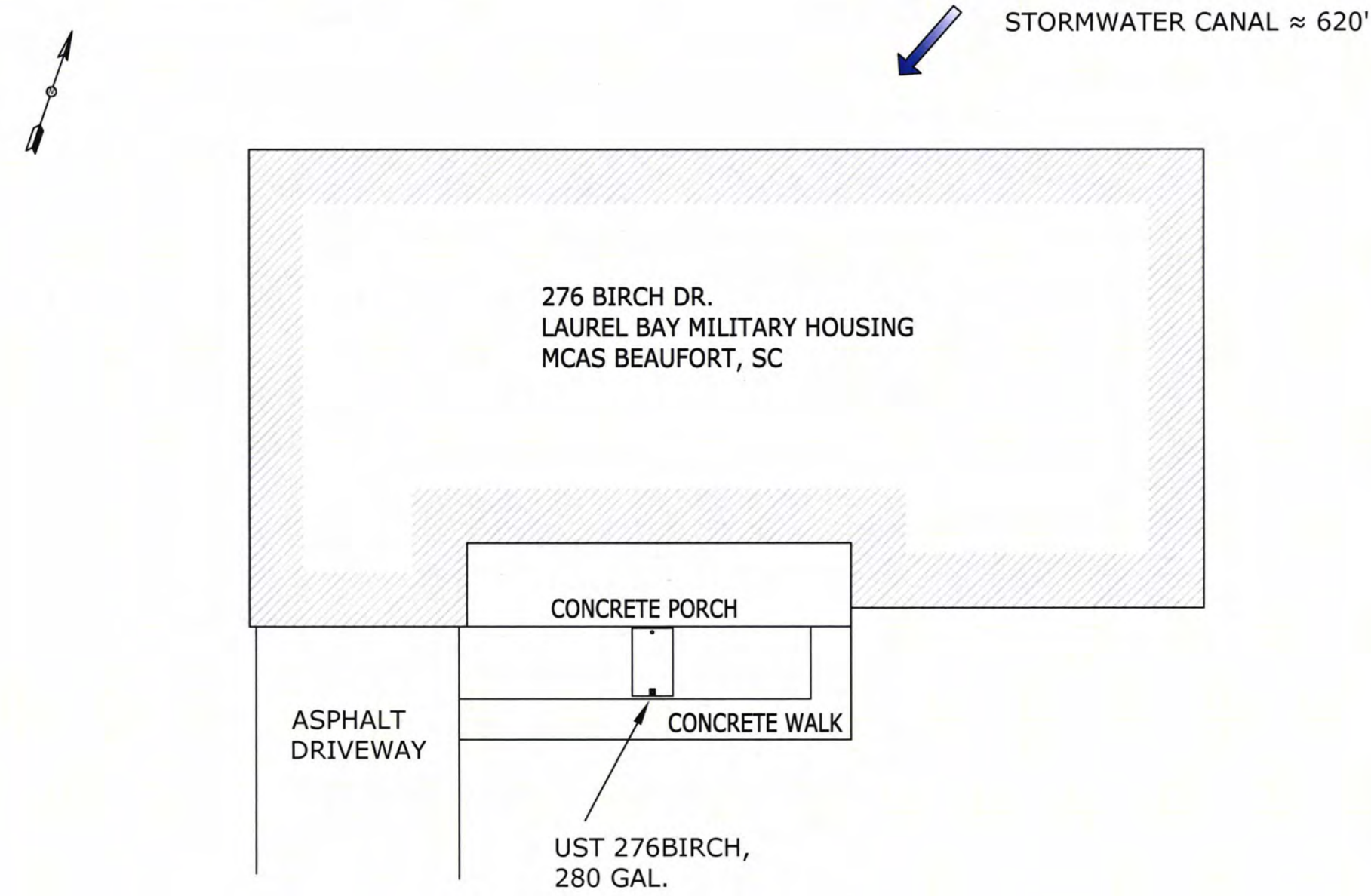


SBG-EEG, Inc.
398 E. 5th North Street, Suite C
Summerville SC 29483-6954
Ph. (843) 875-1930

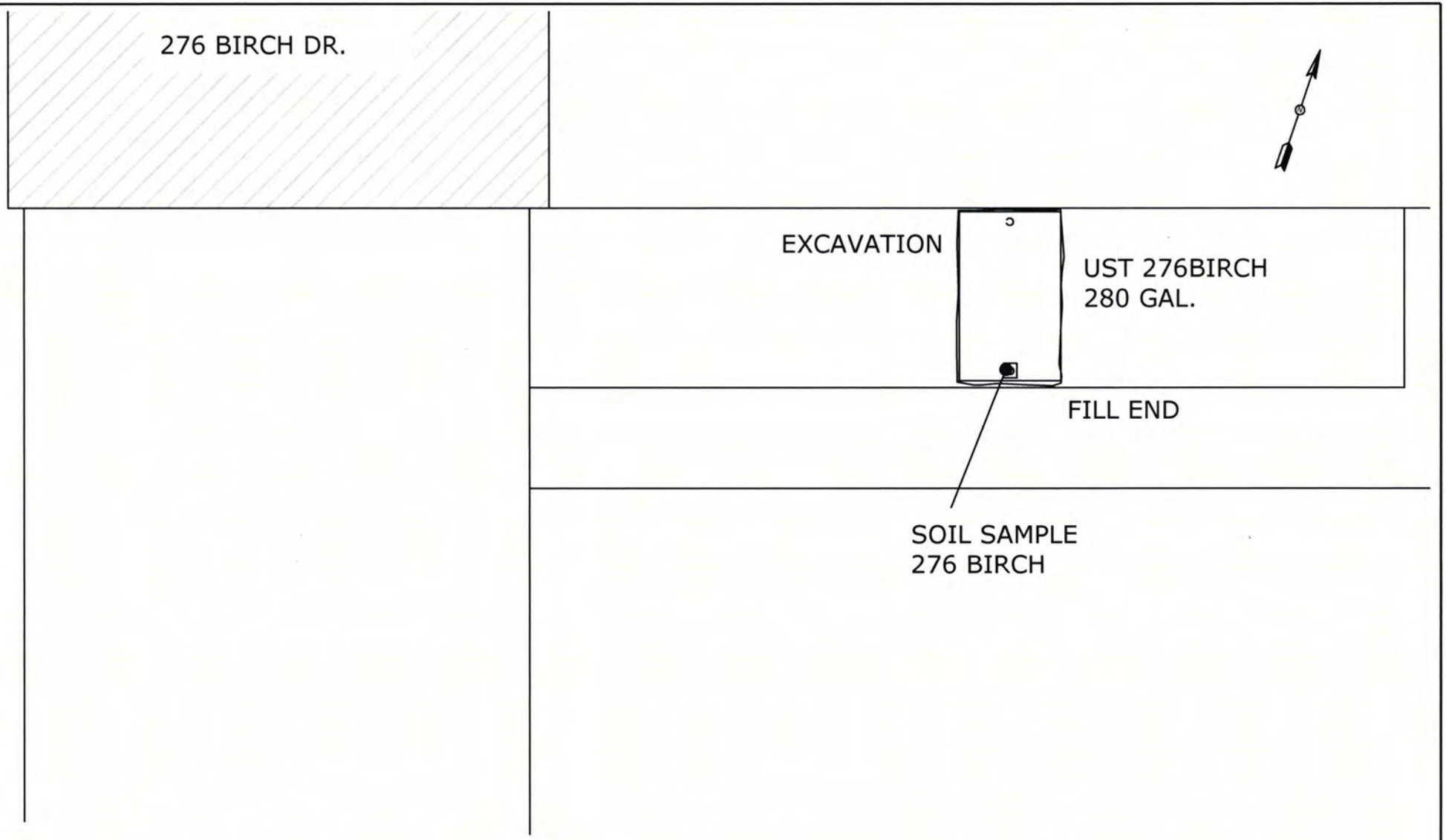
Drawn By: L. DiAsio

Dwg Date: NOV 2011

FIGURE 1: LOCATION MAP
276 BIRCH DRIVE
LAUREL BAY, BEAUFORT SC



SBG-EEG 398 E. 5 NORTH ST., SUITE C SUMMERVILLE, SC 29483-6954	FIGURE 2 SITE MAP 276 BIRCH DR., LAUREL BAY MCAS BEAUFORT SC
	SCALE: GRAPHIC | DWG DATE NOV 2011



STORMWATER CANAL ≈ 620'

GRAPHIC SCALE
0 5'

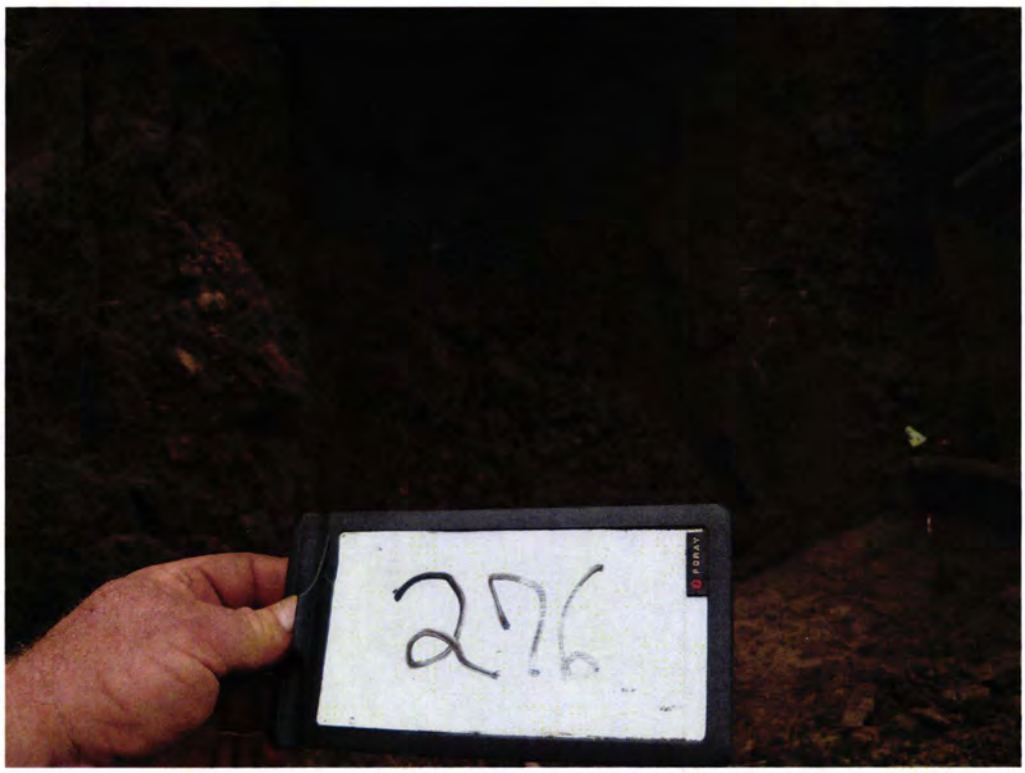
TANK WAS 12" BELOW GRADE

SBG-EEG
398 E. 5 NORTH ST, SUITE C
SUMMERVILLE, SC
29483-6954

FIGURE 3 UST SAMPLE LOCATIONS
276 BIRCH DR., LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC | DWG DATE NOV 2011

Picture 1: Location of UST 276Birch.



Picture 2: UST 276Birch excavation.

XIV. SUMMARY OF ANALYSIS RESULTS

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

CoC	UST 276 Birch						
Benzene	0.0130 mg/kg						
Toluene	ND						
Ethylbenzene	0.996 mg/kg						
Xylenes	1.10 mg/kg						
Naphthalene	9.52 mg/kg						
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								
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				
MTBE	40				
Naphthalene	25				
Benzo (a) anthracene	10				
Benzo (b) flouranthene	10				
Benzo (k) flouranthene	10				
Chrysene	10				
Dibenz (a, h) anthracene	10				
EDB	.05				
1,2-DCA	5				
Lead	Site specific				

XV. ANALYTICAL RESULTS

You must submit the laboratory report and chain-of-custody form for the samples. These samples must be analyzed by a South Carolina certified laboratory.

(Attach Certified Analytical Results and Chain-of-Custody Here)
(Please see Form #4)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: NUJ3005
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:
11/4/2011 2:18:19 PM
Roxanne Connor
Program Manager - Conventional Accounts
roxanne.connor@testamericainc.com

Designee for

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

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Definitions 4
Client Sample Results 5
QC Sample Results 9
QC Association 16
Chronicle 18
Method Summary 19
Certification Summary 20
Chain of Custody 21

Sample Summary

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

TestAmerica Job ID: NUJ3005

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NUJ3005-01	276 Birch	Soil	10/18/11 11:45	10/22/11 08:15
NUJ3005-02	221 Cypress	Soil	10/19/11 12:00	10/22/11 08:15
NUJ3005-03	277 Birch	Soil	10/20/11 11:45	10/22/11 08:15

Definitions/Glossary

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

TestAmerica Job ID: NUJ3005

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
MHA	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
R2	The RPD exceeded the acceptance limit.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Client Sample Results

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

TestAmerica Job ID: NUJ3005

Client Sample ID: 276 Birch
Date Collected: 10/18/11 11:45
Date Received: 10/22/11 08:15

Lab Sample ID: NUJ3005-01
Matrix: Soil
Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0130		0.00197	0.00108	mg/kg dry	☼	10/18/11 11:45	10/29/11 22:09	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*108*		*70 - 130*	*10/18/11 11:45*	*10/29/11 22:09*	*1.00*
Dibromofluoromethane	*101*		*70 - 130*	*10/18/11 11:45*	*10/29/11 22:09*	*1.00*
Toluene-d8	*618*	*ZX*	*70 - 130*	*10/18/11 11:45*	*10/29/11 22:09*	*1.00*
4-Bromofluorobenzene	*644*	*ZX*	*70 - 130*	*10/18/11 11:45*	*10/29/11 22:09*	*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	0.996		0.103	0.0567	mg/kg dry	☼	10/18/11 11:45	10/31/11 15:58	50.0
Naphthalene	9.52		0.258	0.129	mg/kg dry	☼	10/18/11 11:45	10/31/11 15:58	50.0
Toluene	ND	RL1	0.103	0.0567	mg/kg dry	☼	10/18/11 11:45	10/31/11 15:58	50.0
Xylenes, total	1.10		0.258	0.129	mg/kg dry	☼	10/18/11 11:45	10/31/11 15:58	50.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*106*		*70 - 130*	*10/18/11 11:45*	*10/31/11 15:58*	*50.0*
Dibromofluoromethane	*98*		*70 - 130*	*10/18/11 11:45*	*10/31/11 15:58*	*50.0*
Toluene-d8	*100*		*70 - 130*	*10/18/11 11:45*	*10/31/11 15:58*	*50.0*
4-Bromofluorobenzene	*101*		*70 - 130*	*10/18/11 11:45*	*10/31/11 15:58*	*50.0*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.234		0.0803	0.0407	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:12	1.00
Acenaphthylene	0.125		0.0803	0.0407	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:12	1.00
Anthracene	0.110		0.0803	0.0407	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:12	1.00
Benzo (a) anthracene	ND		0.0803	0.0407	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:12	1.00
Benzo (a) pyrene	ND		0.0803	0.0407	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:12	1.00
Benzo (b) fluoranthene	ND		0.0803	0.0407	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:12	1.00
Benzo (g,h,i) perylene	ND		0.0803	0.0407	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:12	1.00
Benzo (k) fluoranthene	ND		0.0803	0.0407	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:12	1.00
Chrysene	ND		0.0803	0.0407	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:12	1.00
Dibenz (a,h) anthracene	ND		0.0803	0.0407	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:12	1.00
Fluoranthene	0.0419	J	0.0803	0.0407	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:12	1.00
Fluorene	0.510		0.0803	0.0407	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:12	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0803	0.0407	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:12	1.00
Naphthalene	1.96		0.0803	0.0407	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:12	1.00
Phenanthrene	1.04		0.0803	0.0407	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:12	1.00
Pyrene	0.0874		0.0803	0.0407	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:12	1.00
1-Methylnaphthalene	2.96		0.0803	0.0407	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:12	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*85*		*18 - 120*	*10/28/11 07:15*	*10/28/11 22:12*	*1.00*
2-Fluorobiphenyl	*72*		*14 - 120*	*10/28/11 07:15*	*10/28/11 22:12*	*1.00*
Nitrobenzene-d5	*70*		*17 - 120*	*10/28/11 07:15*	*10/28/11 22:12*	*1.00*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.56		0.161	0.0814	mg/kg dry	☼	10/28/11 07:15	10/29/11 23:01	2.00

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

TestAmerica Job ID: NUJ3005

Client Sample ID: 276 Birch
Date Collected: 10/18/11 11:45
Date Received: 10/22/11 08:15

Lab Sample ID: NUJ3005-01
Matrix: Soil
Percent Solids: 82.8

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	82.8		0.500	0.500	%		10/30/11 18:30	10/31/11 13:10	1.00

Client Sample ID: 221 Cypress
Date Collected: 10/19/11 12:00
Date Received: 10/22/11 08:15

Lab Sample ID: NUJ3005-02
Matrix: Soil
Percent Solids: 95.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00212	0.00116	mg/kg dry	☼	10/19/11 12:00	10/31/11 13:56	1.00
Ethylbenzene	ND		0.00212	0.00116	mg/kg dry	☼	10/19/11 12:00	10/31/11 13:56	1.00
Toluene	ND		0.00212	0.00116	mg/kg dry	☼	10/19/11 12:00	10/31/11 13:56	1.00
Xylenes, total	ND		0.00529	0.00265	mg/kg dry	☼	10/19/11 12:00	10/31/11 13:56	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*111*		*70 - 130*	*10/19/11 12:00*	*10/31/11 13:56*	*1.00*
Dibromofluoromethane	*107*		*70 - 130*	*10/19/11 12:00*	*10/31/11 13:56*	*1.00*
Toluene-d8	*104*		*70 - 130*	*10/19/11 12:00*	*10/31/11 13:56*	*1.00*
4-Bromofluorobenzene	*154*	*ZX*	*70 - 130*	*10/19/11 12:00*	*10/31/11 13:56*	*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	0.276	0.138	mg/kg dry	☼	10/19/11 12:00	10/31/11 14:25	50.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*105*		*70 - 130*	*10/19/11 12:00*	*10/31/11 14:25*	*50.0*
Dibromofluoromethane	*95*		*70 - 130*	*10/19/11 12:00*	*10/31/11 14:25*	*50.0*
Toluene-d8	*98*		*70 - 130*	*10/19/11 12:00*	*10/31/11 14:25*	*50.0*
4-Bromofluorobenzene	*106*		*70 - 130*	*10/19/11 12:00*	*10/31/11 14:25*	*50.0*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0692	0.0351	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:33	1.00
Acenaphthylene	ND		0.0692	0.0351	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:33	1.00
Anthracene	ND		0.0692	0.0351	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:33	1.00
Benzo (a) anthracene	ND		0.0692	0.0351	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:33	1.00
Benzo (a) pyrene	ND		0.0692	0.0351	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:33	1.00
Benzo (b) fluoranthene	ND		0.0692	0.0351	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:33	1.00
Benzo (g,h,i) perylene	**0.0578**	**J**	0.0692	0.0351	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:33	1.00
Benzo (k) fluoranthene	ND		0.0692	0.0351	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:33	1.00
Chrysene	**0.0454**	**J**	0.0692	0.0351	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:33	1.00
Dibenz (a,h) anthracene	ND		0.0692	0.0351	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:33	1.00
Fluoranthene	ND		0.0692	0.0351	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:33	1.00
Fluorene	ND		0.0692	0.0351	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:33	1.00
Indeno (1,2,3-cd) pyrene	**0.0475**	**J**	0.0692	0.0351	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:33	1.00
Naphthalene	ND		0.0692	0.0351	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:33	1.00
Phenanthrene	ND		0.0692	0.0351	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:33	1.00
Pyrene	ND		0.0692	0.0351	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:33	1.00
1-Methylnaphthalene	ND		0.0692	0.0351	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:33	1.00
2-Methylnaphthalene	ND		0.0692	0.0351	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:33	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*78*		*18 - 120*	*10/28/11 07:15*	*10/28/11 22:33*	*1.00*
2-Fluorobiphenyl	*78*		*14 - 120*	*10/28/11 07:15*	*10/28/11 22:33*	*1.00*
Nitrobenzene-d5	*73*		*17 - 120*	*10/28/11 07:15*	*10/28/11 22:33*	*1.00*

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**95.1**		0.500	0.500	%		10/30/11 18:30	10/31/11 13:10	1.00

Client Sample ID: 277 Birch

Date Collected: 10/20/11 11:45
Date Received: 10/22/11 08:15

Lab Sample ID: NUJ3005-03

Matrix: Soil
Percent Solids: 78.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00218	0.00120	mg/kg dry	☼	10/20/11 11:45	10/29/11 23:10	1.00
Ethylbenzene	ND		0.00218	0.00120	mg/kg dry	☼	10/20/11 11:45	10/29/11 23:10	1.00
Naphthalene	**0.00868**		0.00544	0.00272	mg/kg dry	☼	10/20/11 11:45	10/29/11 23:10	1.00
Toluene	ND		0.00218	0.00120	mg/kg dry	☼	10/20/11 11:45	10/29/11 23:10	1.00
Xylenes, total	ND		0.00544	0.00272	mg/kg dry	☼	10/20/11 11:45	10/29/11 23:10	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*97*		*70 - 130*	*10/20/11 11:45*	*10/29/11 23:10*	*1.00*
Dibromofluoromethane	*96*		*70 - 130*	*10/20/11 11:45*	*10/29/11 23:10*	*1.00*
Toluene-d8	*99*		*70 - 130*	*10/20/11 11:45*	*10/29/11 23:10*	*1.00*
4-Bromofluorobenzene	*120*		*70 - 130*	*10/20/11 11:45*	*10/29/11 23:10*	*1.00*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0839	0.0426	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:53	1.00
Acenaphthylene	ND		0.0839	0.0426	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:53	1.00
Anthracene	ND		0.0839	0.0426	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:53	1.00
Benzo (a) anthracene	ND		0.0839	0.0426	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:53	1.00
Benzo (a) pyrene	ND		0.0839	0.0426	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:53	1.00
Benzo (b) fluoranthene	ND		0.0839	0.0426	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:53	1.00
Benzo (g,h,i) perylene	ND		0.0839	0.0426	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:53	1.00
Benzo (k) fluoranthene	ND		0.0839	0.0426	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:53	1.00
Chrysene	ND		0.0839	0.0426	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:53	1.00
Dibenz (a,h) anthracene	ND		0.0839	0.0426	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:53	1.00
Fluoranthene	ND		0.0839	0.0426	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:53	1.00
Fluorene	ND		0.0839	0.0426	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:53	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0839	0.0426	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:53	1.00
Naphthalene	ND		0.0839	0.0426	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:53	1.00
Phenanthrene	ND		0.0839	0.0426	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:53	1.00
Pyrene	ND		0.0839	0.0426	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:53	1.00
1-Methylnaphthalene	ND		0.0839	0.0426	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:53	1.00
2-Methylnaphthalene	ND		0.0839	0.0426	mg/kg dry	☼	10/28/11 07:15	10/28/11 22:53	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*91*		*18 - 120*	*10/28/11 07:15*	*10/28/11 22:53*	*1.00*
2-Fluorobiphenyl	*73*		*14 - 120*	*10/28/11 07:15*	*10/28/11 22:53*	*1.00*
Nitrobenzene-d5	*70*		*17 - 120*	*10/28/11 07:15*	*10/28/11 22:53*	*1.00*

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	**78.5**		0.500	0.500	%		10/31/11 15:51	11/01/11 12:14	1.00

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

Lab Sample ID: 11J4915-BLK1
Matrix: Soil
Analysis Batch: U019185

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11J4915_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.00110	mg/kg wet		10/29/11 12:37	10/29/11 15:08	1.00
Ethylbenzene	ND		0.00200	0.00110	mg/kg wet		10/29/11 12:37	10/29/11 15:08	1.00
Naphthalene	ND		0.00500	0.00250	mg/kg wet		10/29/11 12:37	10/29/11 15:08	1.00
Toluene	ND		0.00200	0.00110	mg/kg wet		10/29/11 12:37	10/29/11 15:08	1.00
Xylenes, total	ND		0.00500	0.00250	mg/kg wet		10/29/11 12:37	10/29/11 15:08	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*110*		*70 - 130*	*10/29/11 12:37*	*10/29/11 15:08*	*1.00*
Dibromofluoromethane	*111*		*70 - 130*	*10/29/11 12:37*	*10/29/11 15:08*	*1.00*
Toluene-d8	*100*		*70 - 130*	*10/29/11 12:37*	*10/29/11 15:08*	*1.00*
4-Bromofluorobenzene	*99*		*70 - 130*	*10/29/11 12:37*	*10/29/11 15:08*	*1.00*

Lab Sample ID: 11J4915-BLK2
Matrix: Soil
Analysis Batch: U019185

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11J4915_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.100	0.0550	mg/kg wet		10/29/11 12:37	10/29/11 15:39	50.0
Ethylbenzene	ND		0.100	0.0550	mg/kg wet		10/29/11 12:37	10/29/11 15:39	50.0
Naphthalene	ND		0.250	0.125	mg/kg wet		10/29/11 12:37	10/29/11 15:39	50.0
Toluene	ND		0.100	0.0550	mg/kg wet		10/29/11 12:37	10/29/11 15:39	50.0
Xylenes, total	ND		0.250	0.125	mg/kg wet		10/29/11 12:37	10/29/11 15:39	50.0

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*106*		*70 - 130*	*10/29/11 12:37*	*10/29/11 15:39*	*50.0*
Dibromofluoromethane	*110*		*70 - 130*	*10/29/11 12:37*	*10/29/11 15:39*	*50.0*
Toluene-d8	*98*		*70 - 130*	*10/29/11 12:37*	*10/29/11 15:39*	*50.0*
4-Bromofluorobenzene	*99*		*70 - 130*	*10/29/11 12:37*	*10/29/11 15:39*	*50.0*

Lab Sample ID: 11J4915-BS1
Matrix: Soil
Analysis Batch: U019185

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11J4915_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	53.4		ug/kg		107	75 - 127
Ethylbenzene	50.0	51.5		ug/kg		103	80 - 134
Naphthalene	50.0	43.6		ug/kg		87	69 - 150
Toluene	50.0	53.6		ug/kg		107	80 - 132
Xylenes, total	150	161		ug/kg		108	80 - 137

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*113*		*70 - 130*
Dibromofluoromethane	*112*		*70 - 130*
Toluene-d8	*100*		*70 - 130*
4-Bromofluorobenzene	*90*		*70 - 130*

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

Lab Sample ID: 11J4915-BSD1
Matrix: Soil
Analysis Batch: U019185

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 11J4915_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	50.3		ug/kg		101	75 - 127	6	50
Ethylbenzene	50.0	48.4		ug/kg		97	80 - 134	6	50
Naphthalene	50.0	42.9		ug/kg		86	69 - 150	2	50
Toluene	50.0	50.2		ug/kg		100	80 - 132	6	50
Xylenes, total	150	151		ug/kg		101	80 - 137	7	50

Surrogate	*LCS Dup %Recovery*	*LCS Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*112*		*70 - 130*
Dibromofluoromethane	*111*		*70 - 130*
Toluene-d8	*100*		*70 - 130*
4-Bromofluorobenzene	*92*		*70 - 130*

Lab Sample ID: 11J4915-MS1
Matrix: Soil
Analysis Batch: U019185

Client Sample ID: Matrix Spike
Prep Type: Total
Prep Batch: 11J4915_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		0.0490	0.0530		mg/kg wet		108	31 - 143
Ethylbenzene	ND		0.0490	0.0513		mg/kg wet		105	23 - 161
Naphthalene	ND		0.0490	0.0305		mg/kg wet		62	10 - 176
Toluene	ND		0.0490	0.0525		mg/kg wet		107	30 - 155
Xylenes, total	ND		0.147	0.150		mg/kg wet		102	25 - 162

Surrogate	*Matrix Spike %Recovery*	*Matrix Spike Qualifier*	*Limits*
1,2-Dichloroethane-d4	*100*		*70 - 130*
Dibromofluoromethane	*100*		*70 - 130*
Toluene-d8	*98*		*70 - 130*
4-Bromofluorobenzene	*104*		*70 - 130*

Lab Sample ID: 11J4915-MSD1
Matrix: Soil
Analysis Batch: U019185

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 11J4915_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		0.0424	0.0483		mg/kg wet		114	31 - 143	9	50
Ethylbenzene	ND		0.0424	0.0457		mg/kg wet		108	23 - 161	12	50
Naphthalene	ND		0.0424	0.0279		mg/kg wet		66	10 - 176	9	50
Toluene	ND		0.0424	0.0476		mg/kg wet		112	30 - 155	10	50
Xylenes, total	ND		0.127	0.135		mg/kg wet		106	25 - 162	11	50

Surrogate	*Matrix Spike Dup %Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*97*		*70 - 130*
Dibromofluoromethane	*100*		*70 - 130*
Toluene-d8	*100*		*70 - 130*
4-Bromofluorobenzene	*99*		*70 - 130*

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

Lab Sample ID: 11J7382-BLK1
Matrix: Soil
Analysis Batch: U019227

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11J7382_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.00110	mg/kg wet		10/31/11 09:53	10/31/11 12:25	1.00
Ethylbenzene	ND		0.00200	0.00110	mg/kg wet		10/31/11 09:53	10/31/11 12:25	1.00
Naphthalene	ND		0.00500	0.00250	mg/kg wet		10/31/11 09:53	10/31/11 12:25	1.00
Toluene	ND		0.00200	0.00110	mg/kg wet		10/31/11 09:53	10/31/11 12:25	1.00
Xylenes, total	ND		0.00500	0.00250	mg/kg wet		10/31/11 09:53	10/31/11 12:25	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*109*		*70 - 130*	*10/31/11 09:53*	*10/31/11 12:25*	*1.00*
Dibromofluoromethane	*107*		*70 - 130*	*10/31/11 09:53*	*10/31/11 12:25*	*1.00*
Toluene-d8	*97*		*70 - 130*	*10/31/11 09:53*	*10/31/11 12:25*	*1.00*
4-Bromofluorobenzene	*97*		*70 - 130*	*10/31/11 09:53*	*10/31/11 12:25*	*1.00*

Lab Sample ID: 11J7382-BLK2
Matrix: Soil
Analysis Batch: U019227

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11J7382_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.100	0.0550	mg/kg wet		10/31/11 09:53	10/31/11 12:54	50.0
Ethylbenzene	ND		0.100	0.0550	mg/kg wet		10/31/11 09:53	10/31/11 12:54	50.0
Naphthalene	ND		0.250	0.125	mg/kg wet		10/31/11 09:53	10/31/11 12:54	50.0
Toluene	ND		0.100	0.0550	mg/kg wet		10/31/11 09:53	10/31/11 12:54	50.0
Xylenes, total	ND		0.250	0.125	mg/kg wet		10/31/11 09:53	10/31/11 12:54	50.0

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*111*		*70 - 130*	*10/31/11 09:53*	*10/31/11 12:54*	*50.0*
Dibromofluoromethane	*106*		*70 - 130*	*10/31/11 09:53*	*10/31/11 12:54*	*50.0*
Toluene-d8	*97*		*70 - 130*	*10/31/11 09:53*	*10/31/11 12:54*	*50.0*
4-Bromofluorobenzene	*98*		*70 - 130*	*10/31/11 09:53*	*10/31/11 12:54*	*50.0*

Lab Sample ID: 11J7382-BS1
Matrix: Soil
Analysis Batch: U019227

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11J7382_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	47.3		ug/kg		95	75 - 127
Ethylbenzene	50.0	47.4		ug/kg		95	80 - 134
Naphthalene	50.0	46.6		ug/kg		93	69 - 150
Toluene	50.0	47.6		ug/kg		95	80 - 132
Xylenes, total	150	144		ug/kg		96	80 - 137

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*108*		*70 - 130*
Dibromofluoromethane	*106*		*70 - 130*
Toluene-d8	*98*		*70 - 130*
4-Bromofluorobenzene	*96*		*70 - 130*

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

Lab Sample ID: 11J7382-BSD1
Matrix: Soil
Analysis Batch: U019227

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 11J7382_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	49.0		ug/kg		98	75 - 127	3	50
Ethylbenzene	50.0	50.1		ug/kg		100	80 - 134	6	50
Naphthalene	50.0	49.0		ug/kg		98	69 - 150	5	50
Toluene	50.0	49.7		ug/kg		99	80 - 132	4	50
Xylenes, total	150	150		ug/kg		100	80 - 137	4	50

Surrogate	*LCS Dup %Recovery*	*LCS Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*107*		*70 - 130*
Dibromofluoromethane	*104*		*70 - 130*
Toluene-d8	*98*		*70 - 130*
4-Bromofluorobenzene	*96*		*70 - 130*

Lab Sample ID: 11J7382-MS1
Matrix: Soil
Analysis Batch: U019227

Client Sample ID: Matrix Spike
Prep Type: Total
Prep Batch: 11J7382_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		0.0453	0.0533		mg/kg wet		118	31 - 143
Ethylbenzene	ND		0.0453	0.0527		mg/kg wet		116	23 - 161
Naphthalene	ND		0.0453	0.0224		mg/kg wet		50	10 - 176
Toluene	0.00103		0.0453	0.0548		mg/kg wet		119	30 - 155
Xylenes, total	ND		0.136	0.158		mg/kg wet		116	25 - 162

Surrogate	*Matrix Spike %Recovery*	*Matrix Spike Qualifier*	*Limits*
1,2-Dichloroethane-d4	*110*		*70 - 130*
Dibromofluoromethane	*108*		*70 - 130*
Toluene-d8	*100*		*70 - 130*
4-Bromofluorobenzene	*98*		*70 - 130*

Lab Sample ID: 11J7382-MSD1
Matrix: Soil
Analysis Batch: U019227

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 11J7382_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		0.0473	0.0550		mg/kg wet		116	31 - 143	3	50
Ethylbenzene	ND		0.0473	0.0538		mg/kg wet		114	23 - 161	2	50
Naphthalene	ND		0.0473	0.0172		mg/kg wet		36	10 - 176	26	50
Toluene	0.00103		0.0473	0.0556		mg/kg wet		116	30 - 155	2	50
Xylenes, total	ND		0.142	0.160		mg/kg wet		113	25 - 162	1	50

Surrogate	*Matrix Spike Dup %Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*112*		*70 - 130*
Dibromofluoromethane	*108*		*70 - 130*
Toluene-d8	*99*		*70 - 130*
4-Bromofluorobenzene	*96*		*70 - 130*

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

Lab Sample ID: 11J5568-BLK1
Matrix: Soil
Analysis Batch: 11J5568

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11J5568_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0340	mg/kg wet		10/28/11 07:15	10/28/11 18:49	1.00
Acenaphthylene	ND		0.0670	0.0340	mg/kg wet		10/28/11 07:15	10/28/11 18:49	1.00
Anthracene	ND		0.0670	0.0340	mg/kg wet		10/28/11 07:15	10/28/11 18:49	1.00
Benzo (a) anthracene	ND		0.0670	0.0340	mg/kg wet		10/28/11 07:15	10/28/11 18:49	1.00
Benzo (a) pyrene	ND		0.0670	0.0340	mg/kg wet		10/28/11 07:15	10/28/11 18:49	1.00
Benzo (b) fluoranthene	ND		0.0670	0.0340	mg/kg wet		10/28/11 07:15	10/28/11 18:49	1.00
Benzo (g,h,i) perylene	ND		0.0670	0.0340	mg/kg wet		10/28/11 07:15	10/28/11 18:49	1.00
Benzo (k) fluoranthene	ND		0.0670	0.0340	mg/kg wet		10/28/11 07:15	10/28/11 18:49	1.00
Chrysene	ND		0.0670	0.0340	mg/kg wet		10/28/11 07:15	10/28/11 18:49	1.00
Dibenz (a,h) anthracene	ND		0.0670	0.0340	mg/kg wet		10/28/11 07:15	10/28/11 18:49	1.00
Fluoranthene	ND		0.0670	0.0340	mg/kg wet		10/28/11 07:15	10/28/11 18:49	1.00
Fluorene	ND		0.0670	0.0340	mg/kg wet		10/28/11 07:15	10/28/11 18:49	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0670	0.0340	mg/kg wet		10/28/11 07:15	10/28/11 18:49	1.00
Naphthalene	ND		0.0670	0.0340	mg/kg wet		10/28/11 07:15	10/28/11 18:49	1.00
Phenanthrene	ND		0.0670	0.0340	mg/kg wet		10/28/11 07:15	10/28/11 18:49	1.00
Pyrene	ND		0.0670	0.0340	mg/kg wet		10/28/11 07:15	10/28/11 18:49	1.00
1-Methylnaphthalene	ND		0.0670	0.0340	mg/kg wet		10/28/11 07:15	10/28/11 18:49	1.00
2-Methylnaphthalene	ND		0.0670	0.0340	mg/kg wet		10/28/11 07:15	10/28/11 18:49	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*90*		*18 - 120*	*10/28/11 07:15*	*10/28/11 18:49*	*1.00*
2-Fluorobiphenyl	*72*		*14 - 120*	*10/28/11 07:15*	*10/28/11 18:49*	*1.00*
Nitrobenzene-d5	*72*		*17 - 120*	*10/28/11 07:15*	*10/28/11 18:49*	*1.00*

Lab Sample ID: 11J5568-BS1
Matrix: Soil
Analysis Batch: 11J5568

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11J5568_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	1.67	1.33		mg/kg wet		80	36 - 120
Acenaphthylene	1.67	1.29		mg/kg wet		77	38 - 120
Anthracene	1.67	1.47		mg/kg wet		88	46 - 124
Benzo (a) anthracene	1.67	1.44		mg/kg wet		87	45 - 120
Benzo (a) pyrene	1.67	1.56		mg/kg wet		93	45 - 120
Benzo (b) fluoranthene	1.67	1.33		mg/kg wet		80	42 - 120
Benzo (g,h,i) perylene	1.67	1.46		mg/kg wet		87	38 - 120
Benzo (k) fluoranthene	1.67	1.57		mg/kg wet		94	42 - 120
Chrysene	1.67	1.48		mg/kg wet		88	43 - 120
Dibenz (a,h) anthracene	1.67	1.44		mg/kg wet		86	32 - 128
Fluoranthene	1.67	1.51		mg/kg wet		90	46 - 120
Fluorene	1.67	1.45		mg/kg wet		87	42 - 120
Indeno (1,2,3-cd) pyrene	1.67	1.43		mg/kg wet		86	41 - 121
Naphthalene	1.67	1.36		mg/kg wet		82	32 - 120
Phenanthrene	1.67	1.42		mg/kg wet		85	45 - 120
Pyrene	1.67	1.45		mg/kg wet		87	43 - 120
1-Methylnaphthalene	1.67	1.08		mg/kg wet		65	32 - 120
2-Methylnaphthalene	1.67	1.28		mg/kg wet		77	28 - 120

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

Lab Sample ID: 11J5568-BS1
Matrix: Soil
Analysis Batch: 11J5568

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11J5568_P

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*93*		*18 - 120*
2-Fluorobiphenyl	*74*		*14 - 120*
Nitrobenzene-d5	*67*		*17 - 120*

Lab Sample ID: 11J5568-MS1
Matrix: Soil
Analysis Batch: 11J5568

Client Sample ID: 276 Birch
Prep Type: Total
Prep Batch: 11J5568_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.234		1.95	1.97		mg/kg dry	☼	89	19 - 120
Acenaphthylene	0.125		1.95	1.72		mg/kg dry	☼	82	25 - 120
Anthracene	0.110		1.95	1.97		mg/kg dry	☼	96	28 - 125
Benzo (a) anthracene	ND		1.95	1.73		mg/kg dry	☼	89	23 - 120
Benzo (a) pyrene	ND		1.95	1.85		mg/kg dry	☼	95	15 - 128
Benzo (b) fluoranthene	ND		1.95	1.73		mg/kg dry	☼	89	12 - 133
Benzo (g,h,i) perylene	ND		1.95	1.70		mg/kg dry	☼	87	22 - 120
Benzo (k) fluoranthene	ND		1.95	1.73		mg/kg dry	☼	89	28 - 120
Chrysene	ND		1.95	1.79		mg/kg dry	☼	92	20 - 120
Dibenz (a,h) anthracene	ND		1.95	1.69		mg/kg dry	☼	86	12 - 128
Fluoranthene	0.0419	J	1.95	1.97		mg/kg dry	☼	99	10 - 143
Fluorene	0.510		1.95	2.77		mg/kg dry	☼	116	20 - 120
Indeno (1,2,3-cd) pyrene	ND		1.95	1.67		mg/kg dry	☼	86	22 - 121
Naphthalene	1.96		1.95	4.52	MHA	mg/kg dry	☼	131	10 - 120
Phenanthrene	1.04		1.95	4.22	MHA	mg/kg dry	☼	163	21 - 122
Pyrene	0.0874		1.95	1.80		mg/kg dry	☼	88	20 - 123
1-Methylnaphthalene	2.96		1.95	5.88	MHA	mg/kg dry	☼	150	10 - 120
2-Methylnaphthalene	4.66		1.95	8.70	MHA	mg/kg dry	☼	207	13 - 120

Surrogate	*Matrix Spike %Recovery*	*Matrix Spike Qualifier*	*Limits*
Terphenyl-d14	*81*		*18 - 120*
2-Fluorobiphenyl	*78*		*14 - 120*
Nitrobenzene-d5	*78*		*17 - 120*

Lab Sample ID: 11J5568-MSD1
Matrix: Soil
Analysis Batch: 11J5568

Client Sample ID: 276 Birch
Prep Type: Total
Prep Batch: 11J5568_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	0.234		1.98	1.58		mg/kg dry	☼	68	19 - 120	22	50
Acenaphthylene	0.125		1.98	1.49		mg/kg dry	☼	69	25 - 120	15	50
Anthracene	0.110		1.98	1.76		mg/kg dry	☼	83	28 - 125	12	49
Benzo (a) anthracene	ND		1.98	1.61		mg/kg dry	☼	81	23 - 120	7	50
Benzo (a) pyrene	ND		1.98	1.70		mg/kg dry	☼	85	15 - 128	9	50
Benzo (b) fluoranthene	ND		1.98	1.50		mg/kg dry	☼	76	12 - 133	14	50
Benzo (g,h,i) perylene	ND		1.98	1.54		mg/kg dry	☼	78	22 - 120	10	50
Benzo (k) fluoranthene	ND		1.98	1.67		mg/kg dry	☼	84	28 - 120	4	45
Chrysene	ND		1.98	1.61		mg/kg dry	☼	81	20 - 120	11	49
Dibenz (a,h) anthracene	ND		1.98	1.55		mg/kg dry	☼	78	12 - 128	8	50
Fluoranthene	0.0419	J	1.98	1.68		mg/kg dry	☼	83	10 - 143	16	50

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

Lab Sample ID: 11J5568-MSD1
Matrix: Soil
Analysis Batch: 11J5568

Client Sample ID: 276 Birch
Prep Type: Total
Prep Batch: 11J5568_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluorene	0.510		1.98	1.90		mg/kg dry	☼	70	20 - 120	37	50
Indeno (1,2,3-cd) pyrene	ND		1.98	1.53		mg/kg dry	☼	77	22 - 121	9	50
Naphthalene	1.96		1.98	2.92		mg/kg dry	☼	48	10 - 120	43	50
Phenanthrene	1.04		1.98	2.35	R2	mg/kg dry	☼	66	21 - 122	57	50
Pyrene	0.0874		1.98	1.63		mg/kg dry	☼	78	20 - 123	9	50
1-Methylnaphthalene	2.96		1.98	3.45	R2	mg/kg dry	☼	25	10 - 120	52	50
2-Methylnaphthalene	4.66		1.98	4.95	R2	mg/kg dry	☼	14	13 - 120	55	50

Surrogate	*Matrix Spike Dup %Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
Terphenyl-d14	*80*		*18 - 120*
2-Fluorobiphenyl	*66*		*14 - 120*
Nitrobenzene-d5	*62*		*17 - 120*

Method: SW-846 - General Chemistry Parameters

Lab Sample ID: 11J7159-DUP1
Matrix: Soil
Analysis Batch: 11J7159

Client Sample ID: Duplicate
Prep Type: Total
Prep Batch: 11J7159_P

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
% Dry Solids	87.8			86.7		%				1	20

Lab Sample ID: 11J7219-DUP1
Matrix: Soil
Analysis Batch: 11J7219

Client Sample ID: Duplicate
Prep Type: Total
Prep Batch: 11J7219_P

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
% Dry Solids	92.2			92.2		%				0.07	20

QC Association Summary

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

TestAmerica Job ID: NUJ3005

GCMS Volatiles

Analysis Batch: U019185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J4915-BLK1	Method Blank	Total	Soil	SW846 8260B	11J4915_P
11J4915-BLK2	Method Blank	Total	Soil	SW846 8260B	11J4915_P
11J4915-BS1	Lab Control Sample	Total	Soil	SW846 8260B	11J4915_P
11J4915-BSD1	Lab Control Sample Dup	Total	Soil	SW846 8260B	11J4915_P
11J4915-MS1	Matrix Spike	Total	Soil	SW846 8260B	11J4915_P
11J4915-MSD1	Matrix Spike Duplicate	Total	Soil	SW846 8260B	11J4915_P
NUJ3005-01	276 Birch	Total	Soil	SW846 8260B	11J4915_P
NUJ3005-03	277 Birch	Total	Soil	SW846 8260B	11J4915_P

Analysis Batch: U019227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J7382-BLK1	Method Blank	Total	Soil	SW846 8260B	11J7382_P
11J7382-BLK2	Method Blank	Total	Soil	SW846 8260B	11J7382_P
11J7382-BS1	Lab Control Sample	Total	Soil	SW846 8260B	11J7382_P
11J7382-BSD1	Lab Control Sample Dup	Total	Soil	SW846 8260B	11J7382_P
11J7382-MS1	Matrix Spike	Total	Soil	SW846 8260B	11J7382_P
11J7382-MSD1	Matrix Spike Duplicate	Total	Soil	SW846 8260B	11J7382_P
NUJ3005-01 - RE1	276 Birch	Total	Soil	SW846 8260B	11J7382_P
NUJ3005-02 - RE1	221 Cypress	Total	Soil	SW846 8260B	11J7382_P
NUJ3005-02 - RE2	221 Cypress	Total	Soil	SW846 8260B	11J7382_P

Prep Batch: 11J4915_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J4915-BLK1	Method Blank	Total	Soil	EPA 5035	
11J4915-BLK2	Method Blank	Total	Soil	EPA 5035	
11J4915-BS1	Lab Control Sample	Total	Soil	EPA 5035	
11J4915-BSD1	Lab Control Sample Dup	Total	Soil	EPA 5035	
11J4915-MS1	Matrix Spike	Total	Soil	EPA 5035	
11J4915-MSD1	Matrix Spike Duplicate	Total	Soil	EPA 5035	
NUJ3005-01	276 Birch	Total	Soil	EPA 5035	
NUJ3005-03	277 Birch	Total	Soil	EPA 5035	

Prep Batch: 11J7382_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J7382-BLK1	Method Blank	Total	Soil	EPA 5035	
11J7382-BLK2	Method Blank	Total	Soil	EPA 5035	
11J7382-BS1	Lab Control Sample	Total	Soil	EPA 5035	
11J7382-BSD1	Lab Control Sample Dup	Total	Soil	EPA 5035	
11J7382-MS1	Matrix Spike	Total	Soil	EPA 5035	
11J7382-MSD1	Matrix Spike Duplicate	Total	Soil	EPA 5035	
NUJ3005-01 - RE1	276 Birch	Total	Soil	EPA 5035	
NUJ3005-02 - RE1	221 Cypress	Total	Soil	EPA 5035	
NUJ3005-02 - RE2	221 Cypress	Total	Soil	EPA 5035	

GCMS Semivolatiles

Analysis Batch: 11J5568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J5568-BLK1	Method Blank	Total	Soil	SW846 8270D	11J5568_P
11J5568-BS1	Lab Control Sample	Total	Soil	SW846 8270D	11J5568_P
11J5568-MS1	276 Birch	Total	Soil	SW846 8270D	11J5568_P
11J5568-MSD1	276 Birch	Total	Soil	SW846 8270D	11J5568_P

GCMS Semivolatiles (Continued)

Analysis Batch: 11J5568 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NUJ3005-01	276 Birch	Total	Soil	SW846 8270D	11J5568_P
NUJ3005-01 - RE1	276 Birch	Total	Soil	SW846 8270D	11J5568_P
NUJ3005-02	221 Cypress	Total	Soil	SW846 8270D	11J5568_P
NUJ3005-03	277 Birch	Total	Soil	SW846 8270D	11J5568_P

Prep Batch: 11J5568_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J5568-BLK1	Method Blank	Total	Soil	EPA 3550C	
11J5568-BS1	Lab Control Sample	Total	Soil	EPA 3550C	
11J5568-MS1	276 Birch	Total	Soil	EPA 3550C	
11J5568-MSD1	276 Birch	Total	Soil	EPA 3550C	
NUJ3005-01	276 Birch	Total	Soil	EPA 3550C	
NUJ3005-01 - RE1	276 Birch	Total	Soil	EPA 3550C	
NUJ3005-02	221 Cypress	Total	Soil	EPA 3550C	
NUJ3005-03	277 Birch	Total	Soil	EPA 3550C	

Extractions

Analysis Batch: 11J7159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J7159-DUP1	Duplicate	Total	Soil	SW-846	11J7159_P
NUJ3005-01	276 Birch	Total	Soil	SW-846	11J7159_P
NUJ3005-02	221 Cypress	Total	Soil	SW-846	11J7159_P

Analysis Batch: 11J7219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J7219-DUP1	Duplicate	Total	Soil	SW-846	11J7219_P
NUJ3005-03	277 Birch	Total	Soil	SW-846	11J7219_P

Prep Batch: 11J7159_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J7159-DUP1	Duplicate	Total	Soil	% Solids	
NUJ3005-01	276 Birch	Total	Soil	% Solids	
NUJ3005-02	221 Cypress	Total	Soil	% Solids	

Prep Batch: 11J7219_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J7219-DUP1	Duplicate	Total	Soil	% Solids	
NUJ3005-03	277 Birch	Total	Soil	% Solids	

Lab Chronicle

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

TestAmerica Job ID: NUJ3005

Client Sample ID: 276 Birch

Lab Sample ID: NUJ3005-01

Date Collected: 10/18/11 11:45
Matrix: Soil
Date Received: 10/22/11 08:15
Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.814	11J4915_P	10/18/11 11:45	AAN	TAL NSH
Total	Analysis	SW846 8260B		1.00	U019185	10/29/11 22:09	KKK	TAL NSH
Total	Prep	EPA 5035	RE1	0.853	11J7382_P	10/18/11 11:45	AAN	TAL NSH
Total	Analysis	SW846 8260B	RE1	50.0	U019227	10/31/11 15:58	KKK	TAL NSH
Total	Prep	EPA 3550C		0.992	11J5568_P	10/28/11 07:15	MAH	TAL NSH
Total	Analysis	SW846 8270D		1.00	11J5568	10/28/11 22:12	BES	TAL NSH
Total	Prep	EPA 3550C	RE1	0.992	11J5568_P	10/28/11 07:15	MAH	TAL NSH
Total	Analysis	SW846 8270D	RE1	2.00	11J5568	10/29/11 23:01	BES	TAL NSH
Total	Prep	% Solids		1.00	11J7159_P	10/30/11 18:30	PES	TAL NSH
Total	Analysis	SW-846		1.00	11J7159	10/31/11 13:10	RRS	TAL NSH

Client Sample ID: 221 Cypress

Lab Sample ID: NUJ3005-02

Date Collected: 10/19/11 12:00
Matrix: Soil
Date Received: 10/22/11 08:15
Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5035	RE1	1.01	11J7382_P	10/19/11 12:00	AAN	TAL NSH
Total	Analysis	SW846 8260B	RE1	1.00	U019227	10/31/11 13:56	KKK	TAL NSH
Total	Prep	EPA 5035	RE2	1.05	11J7382_P	10/19/11 12:00	AAN	TAL NSH
Total	Analysis	SW846 8260B	RE2	50.0	U019227	10/31/11 14:25	KKK	TAL NSH
Total	Prep	EPA 3550C		0.981	11J5568_P	10/28/11 07:15	MAH	TAL NSH
Total	Analysis	SW846 8270D		1.00	11J5568	10/28/11 22:33	BES	TAL NSH
Total	Prep	% Solids		1.00	11J7159_P	10/30/11 18:30	PES	TAL NSH
Total	Analysis	SW-846		1.00	11J7159	10/31/11 13:10	RRS	TAL NSH

Client Sample ID: 277 Birch

Lab Sample ID: NUJ3005-03

Date Collected: 10/20/11 11:45
Matrix: Soil
Date Received: 10/22/11 08:15
Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.855	11J4915_P	10/20/11 11:45	AAN	TAL NSH
Total	Analysis	SW846 8260B		1.00	U019185	10/29/11 23:10	KKK	TAL NSH
Total	Prep	EPA 3550C		0.983	11J5568_P	10/28/11 07:15	MAH	TAL NSH
Total	Analysis	SW846 8270D		1.00	11J5568	10/28/11 22:53	BES	TAL NSH
Total	Prep	% Solids		1.00	11J7219_P	10/31/11 15:51	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11J7219	11/01/11 12:14	RRS	TAL NSH

Laboratory References:

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

Method Summary

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

TestAmerica Job ID: NUJ3005

Method	Method Description	Protocol	Laboratory
SW-846	General Chemistry Parameters		TAL NSH
SW846 8260B	Volatile Organic Compounds by EPA Method 8260B		TAL NSH
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]

TestAmerica Job ID: NUJ3005

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville		ACIL		393
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	A2LA	WY UST		453.07
TestAmerica Nashville	AIHA - LAP	IHLAP		100790
TestAmerica Nashville	Alabama	State Program	4	41150
TestAmerica Nashville	Alaska	Alaska UST	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas	State Program	6	88-0737
TestAmerica Nashville	CALA	CALA		3744
TestAmerica Nashville	California	NELAC	9	1168CA
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	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAC	7	E-10229
TestAmerica Nashville	Kentucky	Kentucky UST	4	19
TestAmerica Nashville	Kentucky	State Program	4	90038
TestAmerica Nashville	Louisiana	NELAC	6	30613
TestAmerica Nashville	Louisiana	NELAC	6	LA100011
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	State Program	4	N/A
TestAmerica Nashville	Montana	MT DEQ UST	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	North Carolina DENR	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio	OVAP	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	USDA		S-48469
TestAmerica Nashville	Utah	NELAC	8	TAN
TestAmerica Nashville	Virginia	NELAC Secondary AB	3	460152
TestAmerica Nashville	Virginia	State Program	3	00323
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia	West Virginia DEP	3	219

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.

NUJ3005

11/0/11 23:59

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?

Compliance Monitoring? Yes ____ No ____

Enforcement Action? Yes ____ No ____

Client Name/Account #: EEG - SBG # 2449

Address: 10179 Highway 78

City/State/Zip: Ladson, SC 29456

Site State: SC

Project Manager: Tom McElwee email: mcelwee@eeginc.net

PO#: 1037

Telephone Number: 843.412.2097 Fax No.: 843-879-0401

TA Quote #:

Sampler Name: (Print) Prath Shaw

Project ID: Laurel Bay Housing Project

Sampler Signature:

Project #:

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO3 (Red Label)	H2SO4 (Orange Label)	NaOH (Orange Label)	H2SO4 Plastic (Yellow Label)	H2SO4 Glass (Yellow Label)	None (Black Label)	Other (Specify) Methanol	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify)	Analyze For: BTEX + Napth - 8260B	PAH - 8270D	RUSH TAT (Pre-Schedule)
276 Birch	10/18/11	1145	5	X						2			2	1					X		X	X	
221 Cypress	10/19/11	1200	5	X						2			2	1					X		X	X	
277 Birch	10/20/11	1145	5	X						2			2	1					X		X	X	

Special Instructions:

Method of Shipment: FEDEX

Laboratory Comments:
Temperature Upon Receipt:
VOCs Free of Headspace? Y

Relinquished by:	Date	Time	Received by:	Date	Time
	10/21/11	1000	FedEx		
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
				10-22-11	0815

1.6

11/4/2011

ATTACHMENT A

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
MCAS, BEAUFORT
LAUREL BAY HOUSING
BEAUFORT, SC 29907
4. Generator's Phone 843-228-6461

Generator's Site Address (If different than mailing):

A. Manifest Number: **WMNA** 00316822
B. State Generator's ID:

5. Transporter 1 Company Name: EEG, INC.
6. US EPA ID Number:
C. State Transporter's ID:
D. Transporter's Phone: 843-879-0411

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
HICKORY HILL LANDFILL
2621 LOW COUNTRY ROAD
RIDGELAND, SC 29936
10. US EPA ID Number:
G. State Facility ID:
H. State Facility Phone: 843-987-4643

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. HEATING OIL TANKS FILLED WITH SAND WM Profile # 102655SC					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location: Cell ____ Level ____ Grid ____

15. Special Handling Instructions and Additional Information
USTs from: 1) 276 Birch ✓ 2) 221 Cypress ✓ 3) 277 Birch-2 ✓ 4) 314 Ash ✓ 5) 278 Birch ✓ 6) 301 Ash ✓

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully 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
W.S. Dukes		12	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
James Baldwin	James Baldwin	1	4	12

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I 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.

Printed Name	Signature	Month	Day	Year
Bri Cotier ✓	Toni Cofield	1	4	12

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

Appendix C
Laboratory Analytical Reports - Groundwater

CDM - AECOM
Multimedia Joint Venture

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: LAUREL BAY 7/30/08
Pace Project No.: 9224584

Sample: 225 CYPRESS A **Lab ID: 9224584002** Collected: 07/30/08 08:55 Received: 08/01/08 07:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM SPE	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3535							
Benzo(g,h,i)perylene	ND	ug/L	0.20	1	08/04/08 00:00	08/13/08 07:57	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.20	1	08/04/08 00:00	08/13/08 07:57	207-08-9	
Chrysene	ND	ug/L	0.10	1	08/04/08 00:00	08/13/08 07:57	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.20	1	08/04/08 00:00	08/13/08 07:57	53-70-3	
Fluoranthene	ND	ug/L	0.30	1	08/04/08 00:00	08/13/08 07:57	206-44-0	
Fluorene	ND	ug/L	0.31	1	08/04/08 00:00	08/13/08 07:57	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.20	1	08/04/08 00:00	08/13/08 07:57	193-39-5	
1-Methylnaphthalene	ND	ug/L	2.0	1	08/04/08 00:00	08/13/08 07:57	90-12-0	
2-Methylnaphthalene	ND	ug/L	2.0	1	08/04/08 00:00	08/13/08 07:57	91-57-6	
Naphthalene	ND	ug/L	1.5	1	08/04/08 00:00	08/13/08 07:57	91-20-3	
Phenanthrene	**0.51**	ug/L	0.20	1	08/04/08 00:00	08/13/08 07:57	85-01-8	
Pyrene	ND	ug/L	0.10	1	08/04/08 00:00	08/13/08 07:57	129-00-0	
Nitrobenzene-d5 (S)	50	%	50-150	1	08/04/08 00:00	08/13/08 07:57	4165-60-0	
2-Fluorobiphenyl (S)	54	%	50-150	1	08/04/08 00:00	08/13/08 07:57	321-60-8	
Terphenyl-d14 (S)	63	%	50-150	1	08/04/08 00:00	08/13/08 07:57	1718-51-0	
8260 MSV Low Level	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		08/05/08 15:57	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		08/05/08 15:57	100-41-4	
Naphthalene	ND	ug/L	2.0	1		08/05/08 15:57	91-20-3	
Toluene	ND	ug/L	1.0	1		08/05/08 15:57	108-88-3	
m&p-Xylene	ND	ug/L	2.0	1		08/05/08 15:57	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		08/05/08 15:57	95-47-6	
4-Bromofluorobenzene (S)	97	%	87-109	1		08/05/08 15:57	460-00-4	
Dibromofluoromethane (S)	95	%	85-115	1		08/05/08 15:57	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	79-120	1		08/05/08 15:57	17060-07-0	
Toluene-d8 (S)	100	%	70-120	1		08/05/08 15:57	2037-26-5	

Sample: 276 BIRCH A **Lab ID: 9224584003** Collected: 07/30/08 10:35 Received: 08/01/08 07:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM SPE	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3535							
Acenaphthene	ND	ug/L	2.0	1	08/04/08 00:00	08/13/08 08:21	83-32-9	
Acenaphthylene	ND	ug/L	1.5	1	08/04/08 00:00	08/13/08 08:21	208-96-8	
Anthracene	ND	ug/L	0.050	1	08/04/08 00:00	08/13/08 08:21	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	08/04/08 00:00	08/13/08 08:21	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.20	1	08/04/08 00:00	08/13/08 08:21	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.30	1	08/04/08 00:00	08/13/08 08:21	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.20	1	08/04/08 00:00	08/13/08 08:21	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.20	1	08/04/08 00:00	08/13/08 08:21	207-08-9	
Chrysene	ND	ug/L	0.10	1	08/04/08 00:00	08/13/08 08:21	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.20	1	08/04/08 00:00	08/13/08 08:21	53-70-3	
Fluoranthene	ND	ug/L	0.30	1	08/04/08 00:00	08/13/08 08:21	206-44-0	
Fluorene	ND	ug/L	0.31	1	08/04/08 00:00	08/13/08 08:21	86-73-7	

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: LAUREL BAY 7/30/08
Pace Project No.: 9224584

Sample: 276 BIRCH A **Lab ID: 9224584003** Collected: 07/30/08 10:35 Received: 08/01/08 07:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM SPE	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3535							
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.20	1	08/04/08 00:00	08/13/08 08:21	193-39-5	
1-Methylnaphthalene	ND	ug/L	2.0	1	08/04/08 00:00	08/13/08 08:21	90-12-0	
2-Methylnaphthalene	ND	ug/L	2.0	1	08/04/08 00:00	08/13/08 08:21	91-57-6	
Naphthalene	ND	ug/L	1.5	1	08/04/08 00:00	08/13/08 08:21	91-20-3	
Phenanthrene	ND	ug/L	0.20	1	08/04/08 00:00	08/13/08 08:21	85-01-8	
Pyrene	ND	ug/L	0.10	1	08/04/08 00:00	08/13/08 08:21	129-00-0	
Nitrobenzene-d5 (S)	50	%	50-150	1	08/04/08 00:00	08/13/08 08:21	4165-60-0	
2-Fluorobiphenyl (S)	59	%	50-150	1	08/04/08 00:00	08/13/08 08:21	321-60-8	
Terphenyl-d14 (S)	73	%	50-150	1	08/04/08 00:00	08/13/08 08:21	1718-51-0	
8260 MSV Low Level	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		08/05/08 16:21	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		08/05/08 16:21	100-41-4	
Naphthalene	ND	ug/L	2.0	1		08/05/08 16:21	91-20-3	
Toluene	ND	ug/L	1.0	1		08/05/08 16:21	108-88-3	
m&p-Xylene	ND	ug/L	2.0	1		08/05/08 16:21	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		08/05/08 16:21	95-47-6	
4-Bromofluorobenzene (S)	99	%	87-109	1		08/05/08 16:21	460-00-4	
Dibromofluoromethane (S)	95	%	85-115	1		08/05/08 16:21	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	79-120	1		08/05/08 16:21	17060-07-0	
Toluene-d8 (S)	100	%	70-120	1		08/05/08 16:21	2037-26-5	

Sample: 201 BALSAM A **Lab ID: 9224584004** Collected: 07/30/08 11:00 Received: 08/01/08 07:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM SPE	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3535							
Acenaphthene	ND	ug/L	2.0	1	08/04/08 00:00	08/13/08 08:44	83-32-9	
Acenaphthylene	ND	ug/L	1.5	1	08/04/08 00:00	08/13/08 08:44	208-96-8	
Anthracene	**0.16**	ug/L	0.050	1	08/04/08 00:00	08/13/08 08:44	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	08/04/08 00:00	08/13/08 08:44	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.20	1	08/04/08 00:00	08/13/08 08:44	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.30	1	08/04/08 00:00	08/13/08 08:44	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.20	1	08/04/08 00:00	08/13/08 08:44	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.20	1	08/04/08 00:00	08/13/08 08:44	207-08-9	
Chrysene	ND	ug/L	0.10	1	08/04/08 00:00	08/13/08 08:44	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.20	1	08/04/08 00:00	08/13/08 08:44	53-70-3	
Fluoranthene	ND	ug/L	0.30	1	08/04/08 00:00	08/13/08 08:44	206-44-0	
Fluorene	**3.1**	ug/L	0.31	1	08/04/08 00:00	08/13/08 08:44	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.20	1	08/04/08 00:00	08/13/08 08:44	193-39-5	
1-Methylnaphthalene	**25.4**	ug/L	2.0	1	08/04/08 00:00	08/13/08 08:44	90-12-0	
2-Methylnaphthalene	**28.0**	ug/L	2.0	1	08/04/08 00:00	08/13/08 08:44	91-57-6	
Naphthalene	**20.5**	ug/L	1.5	1	08/04/08 00:00	08/13/08 08:44	91-20-3	
Phenanthrene	**3.1**	ug/L	0.20	1	08/04/08 00:00	08/13/08 08:44	85-01-8	
Pyrene	ND	ug/L	0.10	1	08/04/08 00:00	08/13/08 08:44	129-00-0	

Volatile Organic Compounds by GC/MS

Client: **AECOM - Resolution Consultants**
Laboratory ID: **QE21004-020**
Description: **BEALB276TW02WG20150521**
Matrix: **Aqueous**
Date Sampled: **05/21/2015 1130**
Date Received: **05/22/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/27/2015 1509	EH1		75865

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.17	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.32	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.16	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.19	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		106	75-120
1,2-Dichloroethane-d4		102	70-120
Toluene-d8		110	85-120
Dibromofluoromethane		104	85-115

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 ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
L = LCS/LCSD failure
Where 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 Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Semivolatile Organic Compounds by GC/MS (SIM)

Client: **AECOM - Resolution Consultants**
Laboratory ID: **QE21004-020**
Description: **BEALB276TW02WG20150521**
Matrix: **Aqueous**
Date Sampled: **05/21/2015 1130**
Date Received: **05/22/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D (SIM)	1	05/28/2015 0023	RBH	05/26/2015 1543	75778

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzo(a)anthracene	56-55-3	8270D (SIM)	ND		0.20	0.019	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D (SIM)	ND		0.20	0.019	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D (SIM)	ND		0.20	0.024	ug/L	1
Chrysene	218-01-9	8270D (SIM)	ND		0.20	0.021	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D (SIM)	ND		0.20	0.040	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Methylnaphthalene-d10		60	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 ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
L = LCS/LCSD failure
Where 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 Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Appendix D
Regulatory Correspondence

CDM - AECOM
Multimedia Joint Venture

D H E C
PROMOTE PROTECT PROSPER

3 September 2008

Beaufort Military Complex Family Housing
ATTN: Kyle Broadfoot
1510 Laurel Bay Blvd.
Beaufort, SC 29906

Re: MCAS – Laurel Bay Housing – 276 Birch
Site ID # 04026
UST Closure Reports received 31 January 2008
Beaufort County

Dear Mr. Broadfoot:

The purpose of this letter is to verify a release of fuel oil at the referenced residence. According to information received by the Department, the source of the release is from past onsite use of fuel oil USTs. To date, initial activities by the facility have included tank removal and soil sampling. Based on the information contained in the closure report, a potential violation of the South Carolina Pollution Control Act has occurred in that there has been an unauthorized release of petroleum to the environment.

Additional assessment activities are required for this site. Specifically the Department requests that a groundwater sample be collected from this site. Please note, the Department approved a groundwater sampling proposal for Laurel Bay submitted by MCAS under separate cover dated 16 June 2008.

Should you have any questions, please contact me at 803-898-3553 (office phone), 803-898-2893 (fax) or bishopma@dhec.sc.gov.

Sincerely,

Michael Bishop, Hydrogeologist
Groundwater Quality Section
Bureau of Water

cc: Region 8 District EQC (via pdf)
MCAS, Commanding Officer, Attention: S-4 NREAO (William Drawdy) (via pdf)
Technical File (via pdf)

D H E C

PROMOTE PROTECT PROSPER

Catherine B. Templeton, Director

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: 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 above 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 et seq., 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,

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)

Attachment to: Krieg to Drawdy
Subject: IGWA
Dated 5/15/2014

Laurel Bay Underground Storage Tank Assessment Reports for: (121 addresses/139 tanks)

137 Laurel Bay Tank 2	387 Acorn
139 Laurel Bay	392 Acorn Tank 2
229 Cypress Tank 2	396 Acorn Tank 1
261 Beech Tank 1	396 Acorn Tank 2
261 Beech Tank 3	430 Elderberry
273 Birch Tank 1	433 Elderberry
273 Birch Tank 2	439 Elderberry
273 Birch Tank 3	440 Elderberry
276 Birch Tank 2	442 Elderberry
278 Birch Tank 2	443 Elderberry
291 Birch Tank 2	444 Elderberry Tank 1
300 Ash	445 Elderberry
304 Ash	446 Elderberry
314 Ash Tank 1	448 Elderberry
314 Ash Tank 2	449 Elderberry
322 Ash Tank 2	451 Elderberry
323 Ash	453 Elderberry
324 Ash	456 Elderberry Tank 1
325 Ash Tank 1	456 Elderberry Tank 2
325 Ash Tank 2	458 Elderberry Tank 1
326 Ash	458 Elderberry Tank 3
336 Ash	464 Dogwood
339 Ash	466 Dogwood
343 Ash Tank 1	467 Dogwood
344 Ash Tank 1	468 Dogwood
348 Ash	469 Dogwood
349 Ash Tank 1	471 Dogwood Tank 2
353 Ash Tank 1	471 Dogwood Tank 3
362 Aspen	475 Dogwood Tank 1
376 Aspen	475 Dogwood Tank 2
380 Aspen	516 Laurel Bay Tank 1 (UST#03747)
383 Aspen Tank 2	518 Laurel Bay

Laurel Bay Underground Storage Tank Assessment Reports for: (121 addresses/139 tanks) cont.

531 Laurel Bay	1219 Cardinal
532 Laurel Bay	1272 Albatross
635 Dahlia Tank 2	1305 Eagle
638 Dahlia	1353 Cardinal
640 Dahlia Tank 1	1356 Cardinal
640 Dahlia Tank 2	1357 Cardinal
645 Dahlia	1359 Cardinal
647 Dahlia	1360 Cardinal
648 Dahlia Tank 2	1361 Cardinal
650 Dahlia Tank 1	1368 Cardinal
650 Dahlia Tank 2	1370 Cardinal Tank 1
652 Dahlia Tank 1	1377 Dove
652 Dahlia Tank 2	1381 Dove
760 Althea	1382 Dove
763 Althea	1384 Dove
771 Althea	1385 Dove
927 Albacore	1389 Dove
1015 Foxglove	1391 Dove
1046 Gardenia	1392 Dove
1062 Gardenia Tank 2	1393 Dove Tank 1
1070 Heather	1393 Dove Tank 2
1072 Heather	1406 Eagle
1102 Iris Tank 1	1407 Eagle Tank 1
1107 Iris	1411 Eagle Tank 1
1126 Iris	1411 Eagle Tank 2
1129 Iris	1412 Eagle
1132 Iris	1413 Albatross
1133 Iris Tank 1	1414 Albatross
1138 Iris	1422 Albatross
1144 Iris Tank 1	1425 Albatross
1144 Iris Tank 2	1426 Albatross
1148 Iris Tank 1	1432 Dove
1148 Iris Tank 2	1434 Dove
1161 Jasmine	1436 Dove
1167 Jasmine	1438 Dove Tank 1
1170 Jasmine	1440 Dove
1190 Bobwhite	1442 Dove Tank 1
1192 Bobwhite	

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

20 November 2008

Beaufort Military Complex Family Housing
ATTN: Kyle Broadfoot
1510 Laurel Bay Blvd.
Beaufort, SC 29906

Re: MCAS – Laurel Bay Housing – 276 Birch
Site ID # 04026
Groundwater Sampling Results received 6 November 2008
Beaufort County

Dear Mr. Broadfoot:

Per the Department's request, a groundwater sample was collected from the referenced site. The groundwater results were reported as non-detect. Based on the information and analytical data submitted, the Department recognizes that MCAS has adequately addressed the known environmental contamination identified on the property to date in accordance with the approved scope of work. Consequently, no further investigation is required at this time. Please note, this statement pertains only to the portion of the site addressed in the referenced report and does not apply to other areas of the site and/or any other potential regulatory violations. Further, the Department retains the right to request further investigation if deemed necessary.

Should you have any questions, please contact me at 803-896-4179 (office phone), 803-896-6245 (fax) or cookejt@dhec.sc.gov.

Sincerely,
AST Petroleum Restoration
& Site Environmental Investigations Section
Land Revitalization Division
Bureau of Land and Waste Management
SC Dept. of Health & Environmental Control

Jan T. Cooke, Hydrogeologist

B. Thomas Knight, Manager

cc: Region 8 District EQC
MCAS, Commanding Officer, Attention: S-4 NREAO (Craig Ehde),
P.O. Box 55001, Beaufort, SC 29904-5001
Technical File

D H E C
PROMOTE PROTECT PROSPER
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

February 22, 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-May and June 2015
Laurel Bay Military Housing Area Multiple Properties
Dated October 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 addresses attached. 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 52 stated addresses. For the remaining 91 addresses, there is no indication of contamination on the property and therefore no further investigation is required at this time.

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

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

Sincerely,

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-May and June 2015
Specific Property Recommendations
Dated February 22, 2016

Draft Final Initial Groundwater Investigation Report for (143 addresses)

Permanent Monitoring Well Investigation recommendation (52 addresses)	
273 Birch Drive	1192 Bobwhite Drive
325 Ash Street	1194 Bobwhite Drive
326 Ash Street	1272 Albatross Drive
336 Ash Street	1352 Cardinal Lane
343 Ash Street	1356 Cardinal Lane
353 Ash Street	1359 Cardinal Lane
430 Elderberry Drive	1360 Cardinal Lane
440 Elderberry Drive	1362 Cardinal Lane
456 Elderberry Drive	1370 Cardinal Lane
458 Elderberry Drive	1382 Dove Lane
468 Dogwood Drive	1384 Dove lane
518 Laurel Bay Blvd	1385 Dove Lane
635 Dahlia Drive	1389 Dove Lane
638 Dahlia Drive	1392 Dove Lane
640 Dahlia Drive	1393 Dove Lane
647 Dahlia Drive	1407 Eagle Lane
648 Dahlia Drive	1411 Eagle Lane
650 Dahlia Drive	1418 Albatross Drive
652 Dahlia Drive	1420 Albatross Drive
760 Althea Street	1426 Albatross Drive
1102 Iris Lane	1429 Albatross Drive
1132 Iris Lane	1434 Dove Lane
1133 Iris Lane	1436 Dove Lane
1144 Iris Lane	1440 Dove Lane
1148 Iris Lane	1442 Dove Lane
1186 Bobwhite Drive	1444 Dove Lane
No Further Action recommendation (91 addresses):	
137 Laurel Bay Blvd	771 Althea Street
139 Laurel Bay Blvd	927 Albacore Street
229 Cypress Street	1015 Foxglove Street
261 Beech Street	1046 Gardenia Drive
276 Birch Drive	1062 Gardenia Drive
278 Birch Drive	1070 Heather Street
291 Birch Drive	1072 Heather Street

300 Ash Street	1107 Iris Lane
304 Ash Street	1126 Iris Lane
314 Ash Street	1129 Iris Lane
322 Ash Street	1138 Iris Lane
323 Ash Street	1161 Jasmine Street
324 Ash Street	1167 Jasmine Street
339 Ash Street	1170 Jasmine Street
344 Ash Street	1190 Bobwhite Drive
348 Ash Street	1219 Cardinal Lane
349 Ash Street	1305 Eagle Lane
362 Aspen Street	1353 Cardinal Lane
376 Aspen Street	1354 Cardinal Lane
380 Aspen Street	1357 Cardinal Lane
383 Aspen Street	1361 Cardinal Lane
387 Acorn Drive	1364 Cardinal Lane
392 Acorn Drive	1368 Cardinal Lane
396 Acorn Drive	1377 Dove Lane
433 Elderberry Drive	1381 Dove Lane
439 Elderberry Drive	1391 Dove Lane
442 Elderberry Drive	1403 Eagle Lane
443 Elderberry Drive	1404 Eagle Lane
444 Elderberry Drive	1405 Eagle Lane
445 Elderberry Drive	1406 Eagle Lane
446 Elderberry Drive	1408 Eagle Lane
448 Elderberry Drive	1410 Eagle Lane
449 Elderberry Drive	1412 Eagle Lane
451 Elderberry Drive	1413 Albatross Drive
453 Elderberry Drive	1414 Albatross Drive
464 Dogwood Drive	1417 Albatross Drive
466 Dogwood Drive	1421 Albatross Drive
467 Dogwood Drive	1422 Albatross Drive
469 Dogwood Drive	1425 Albatross Drive
471 Dogwood Drive	1427 Albatross Drive
475 Dogwood Drive	1430 Dove Lane
516 Laurel Bay Blvd	1432 Dove Lane
531 Laurel Bay Blvd	1438 Dove Lane
532 Laurel Bay Blvd	1453 Cardinal Lane
645 Dahlia Drive	1455 Cardinal Lane
763 Althea Street	