SUMMARY REPORT
164 BIRCH ROAD (FORMERLY 283 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 SUMMARY REPORT
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Prepared by:



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Contract Number: N62470-14-D-9016

CTO WE52

JUNE 2021



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	BACKGROU UST REMO SAMPLING UST REMO SOIL ANAL' GROUNDWA GROUNDWA PROPERTY





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 164 Birch Road (Formerly 283 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, 2016) and the Underground Storage Tank Assessment Instructions for Permanent Closure and Change-In-Service, (SCDHEC, 2018), are as follows:

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

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



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

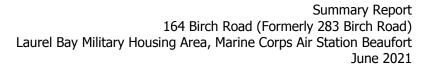
The results of the soil sampling at each former UST location were used to determine if a potential for groundwater contamination exists (i.e., soil results greater than RBSLs) and subsequently to select properties for follow-up initial groundwater assessment (IGWA) sampling. The results of the IGWA sampling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

2.0 SAMPLING ACTIVITIES AND RESULTS

The following section presents the sampling activities and associated results for 164 Birch Road (Formerly 283 Birch Road). Details regarding the soil investigation at this site are provided in the SCDHEC UST Assessment Report – 283 Birch Road (MCAS Beaufort, 2008) and SCDHEC UST Assessment Report – 283 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 Initial Groundwater Investigation Report – February and March 2017 (Resolution Consultants, 2017). The laboratory report that includes the pertinent IGWA analytical results for this site is presented in Appendix C.

2.1 UST Removal and Soil Sampling

In June 2007 and October 2011, two 280 gallon heating oil USTs were removed at 164 Birch Road (Formerly 283 Birch Road). Tank 1 was removed on June 20, 2007 from the front landscaped bed area, adjacent to the driveway. Tank 2 was removed on October 13, 2011





from underneath the edge of the front concrete side walk and the front grassed area. 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 4'5" (Tank 1) and 4'8" (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 2'6" 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 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 164 Birch Road (Formerly 283 Birch Road) during the removal of Tank 1 were less than the SCDHEC RBSLs, which indicated the subsurface was not impacted by COPCs associated with the former UST at concentrations that presented a potential risk to human health and the environment. The soil results collected from 164 Birch Road (Formerly 283 Birch Road) during the removal of Tank 2 were greater than the SCDHEC RBSLs, which indicated further investigation was required. In a letter dated August 24, 2016, SCDHEC requested an IGWA for 164 Birch Road (Formerly 283 Birch Road) to determine if the groundwater was impacted by petroleum COPCs. SCDHEC's request letter is provided in Appendix D.



2.3 Groundwater Sampling

On March 2, 2017, a temporary monitoring well was installed at 164 Birch Road (Formerly 283 Birch Road), in accordance with the South Carolina Well Standards and Regulations (R.61-71.H-I, updated June 24, 2016). In order to provide data that can be used to determine whether COPCs are migrating to underlying groundwater, the monitoring well was placed in the same general location as the former heating oil UST (Tank 2). The former UST location is indicated on the figures of the UST Assessment Report (Appendix B). Further details are provided in the *Initial Groundwater Investigation Report – February and March 2017* (Resolution Consultants, 2017).

The sampling strategy for this phase of the investigation required a one-time sampling event of the temporarily installed monitoring well. Following well installation and development, groundwater samples were collected using low-flow methods and shipped to an offsite laboratory for analysis of the petroleum COPCs. Upon completion of groundwater sampling, the temporary well was abandoned in accordance with the South Carolina Well Standards and Regulations R.61-71 (SCDHEC, 2016). Field forms are provided in the *Initial Groundwater Investigation Report – February and March 2017* (Resolution Consultants, 2017).

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 164 Birch Road (Formerly 283 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 UST at concentrations that present a potential risk to human health and the environment.

3.0 PROPERTY STATUS

Based on the analytical results for soil (Tank 1) and groundwater (Tank 2), SCDHEC made the determination that NFA was required for 164 Birch Road (Formerly 283 Birch Road). This NFA determination was obtained in letters dated August 14, 2008 (Tank 1) and July 27, 2017 (Tank 2). 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 283 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 283 Birch Road, Laurel Bay Military Housing Area*, February 2012.
- Resolution Consultants, 2017. *Initial Groundwater Investigation Report February and March*2017 for Laurel Bay Military Housing Area, Multiple Properties, Laurel Bay Military
 Housing Area, Marine Corps Air Station Beaufort, Beaufort, South Carolina, June 2017.
- 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 164 Birch Road (Formerly 283 Birch Road) Laurel Bay Military Housing Area Marine Corps Air Station Beaufort Beaufort, South Carolina

Constituent	SCDHEC RBSLs (1)	Results Samples Collected 06/20/07 and 10/13/11				
Constituent	SCOHEC RBSLS	283 Birch Bottom 01 06/20/07	283 Birch Side 02 06/20/07	283 Birch 10/13/11		
Volatile Organic Compounds Analyzed	by EPA Method 8260B (mg/kg)		,			
Benzene	0.003	ND	ND	ND		
Ethylbenzene	1.15	ND	ND	ND		
Naphthalene	0.036	ND	0.00465	0.0402		
Toluene	0.627	ND	ND	ND		
Xylenes, Total	13.01	ND	ND	ND		
Semivolatile Organic Compounds Anal	yzed by EPA Method 8270D (mg/kg)		•			
Benzo(a)anthracene	0.66	0.0453	ND	ND		
Benzo(b)fluoranthene	0.66	ND	ND	ND		
Benzo(k)fluoranthene	0.66	0.0304	ND	ND		
Chrysene	0.66	0.0478	ND	ND		
Dibenz(a,h)anthracene	0.66	ND	ND	ND		

Notes:

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

mg/kg - 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

⁽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).

Table 2 Laboratory Analytical Results - Groundwater 164 Birch Road (Formerly 283 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 Sample Collected 03/03/17
Volatile Organic Compounds Analyzed	l by EPA Method 8260B (μg	/L)	
Benzene	5	16.24	ND
Ethylbenzene	700	45.95	2.4
Naphthalene	25	29.33	9.3
Toluene	1000	105,445	ND
Xylenes, Total	10,000	2,133	ND
Semivolatile Organic Compounds Ana	lyzed by EPA Method 8270	 Ο (μg/L)	
Benzo(a)anthracene	10	NA	ND
Benzo(b)fluoranthene	10	NA	ND
Benzo(k)fluoranthene	10	NA	ND
Chrysene	10	NA	ND
Dibenz(a,h)anthracene	10	NA	ND

Notes:

(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

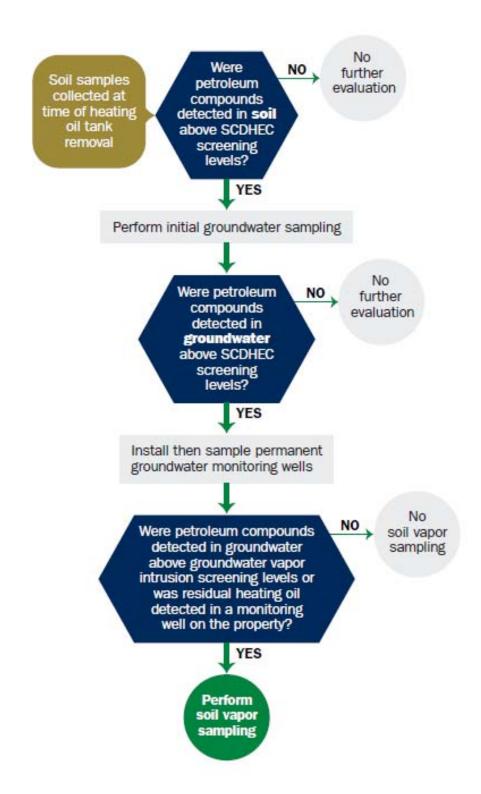
μg/L - micrograms per liter

VISL - Vapor Intrusion Screening Level

⁽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).

Appendix A Multi-Media Selection Process for LBMH





Appendix A - Multi-Media Selection Process for LBMH

Appendix B UST Assessment Reports



Attachment 1 South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank (UST) Assessment Report



Submit Completed Form To:
UST Program
SCDHEC
2600 Bull Street
Columbia, South Carolina 29201
Telephone (803) 896-6240

I. OWNERSHIP OF UST (S)	
Beaufort Military Complex Owner Name (Corporation, Individual, Public Agency, C	FAMILY. Housing
Mailing Address LAURET BAY BRUD	· ·
Beaufort 5C. State	29906 Zip Code
Area Code Telephone Number	9-3305 Kilo Rouse

II. SITE IDENTIFICATION AND LOCATION

N/A

Permit 1.D. # Actus LEND Lease Construction

Facility Name or Company Site Identifier

283 BIRCH

Street Address or State Road (as applicable)

Beaufort SC 29906

City ZIP County

III. INSURANCE INFORMATION

		urance Statement
The petroleum release monies to pay for appropria fund, written confirmation of section must be completed.	f the existence or non	C on at Permit ID #_may qualify to receive standard activities. Before participation is allowed in the State Cleann-existence of an environmental insurance policy is required. The control of th
_	(one.	
II you answere	ed YES to the above	e question, please complete the following information:
	My policy provider The policy deductib The policy limit is:	r is: ble is:
If you have this type of	of insurance, please i	include a copy of the policy with this report.
		And ish to participate in the Superb Program.
Cerniv that I have nowned a	n	nigned by the UST owner/operator.) m familiar with the information submitted in this and all uiry of those individuals responsible for obtaining this nation is true, accurate, and complete.
Name (Type or print.)	· · · · · · · · · · · · · · · · · · ·	
ignature To be completed by No	tary Public:	
worn before me this	day of	, 20
(Name)		
otary Public for the state of	e commissioned outsi	side South Carolina

	V. UST INFORMATION	Tank 1	Tank 2	Tank 3	Tank 4	1	
•		<u> </u>		rait 2	Tank 4	Tank 5	Tank 6
A	Product(ex. Gas, Kerosene)	#Z DIESE					·.
В	·	200G					
C	. Age						
D.	Construction Material(ex. Steel, FRP)	Steel					
E.	•						
F.	Depth (ft.) To Base of Tank	53"					
G.	Spill Prevention Equipment Y/N	N					
H.	Overfill Prevention Equipment Y/N	N					·
I.	Method of Closure Removed Filled	Rémova				-	
J.	Date Tanks Removed/Filled						
· K.	Visible Corrosion or Pitting Y/N	52607					
L.	Visible Holes Y/N	AAA					
		7		\ \frac{1}{3}			
M.	Method of disposal for any USTs removed from the gr	ound (atta	ch dispo	sal mani	fests)		
	Recycling - Scrap Steen			<u> </u>			
N.	Method of disposal for any liquid petroleum, sludges, odisposal manifests)	r wastewa	ters rem	oved from	m the US	Ts (attac	h
	SOLIPIFICATION & LANDFILL -	5u6	DRO,	DHUR D	157 4	AND	FILC
O.	If any corrosion, pitting, or holes were observed, described ONE INCH HOLE 1968 ON	oe the loca THE R	tion and	extent fo	or each U	ST	

O.

VI. PIPING INFORMATION

		Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank
A.	Construction Material(ex. Steel, FRP)	Steel			<u> </u>		
В.	Distance from UST to Dispenser	ļ					
C.	Number of Dispensers	NA					
D.	Type of System Pressure or Suction	-0-			i		-
E.	Was Piping Removed from the Ground? Y/N	Electru Pump					
F.	Visible Corrosion or Pitting Y/N	Y					
G.	Visible Holes Y/N						
H.	Age	N					
		N		İ			
	4						
	If any corrosion, pitting, or holes were observed, des	20510N					
	VII. BRIEF SITE DESCRIPTION AND I	HSTOR	Y				
•	Home Heating Oil TAN	»κ − '	Res	IDEN	TIAL		
		·	<u> : </u>	·			·
-		 .					
_			 -				 .
							

VIII. 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.)	*		
C. Was water present in the UST excavation, soil borings, or trenches? If yes, how far below land surface (indicate location and depth)?		メ	
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.		<i>F</i>	

IX. SAMPLE INFORMATION

Α

SCDHEC Lab Certification Number DW: 84009002

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA#
						,	
1 2	BOTTOM	5	SAND	53"	6-20-07	ECHEVALIDA AL MANURA AL MANURA	ND
3	SIDE		SAND	30"		POWANCY.	ND
4		 				7	
5							
6							
. 7							
8						· .	·
9							
10							`
11							
12							
13					· ·		
14							
16							
17	 -						
18						ŀ	
19							
20							
		*= D1 D	<u>.</u>				

* = Depth Below the Surrounding Land Surface

SAMPLING METHODOLOGY

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

The state of the s
- EPA Method 8260 B Volatile ORGANIC Compounds - Presendative: Zea Sodium Bisulfate lea EPA METHOD 8270 Palling
- Presendative, Zea Sodium R. Superto
EPA METHOD 8270 Poly Aromatic Hydro CARBONS
No Preservative
DNE (1) SIDEWALL AND OUR (1) BU
DNE (1) SIDEWALL And ONE (1) Bottom SAmple were secured from tank excertion Samples were stoned and shipe in the
Samples were stored air aline
Samples were stoned and shipped in An insulated cooled w/ ICE.
CE a

XI. RECEPTORS

A. Are there any lakes pands at	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.		*
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 man		i/
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.	1	

SUMMARY OF ANALYSIS RESULTS \mathcal{N}/\mathcal{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			1	d on the h	ollowing pa
Benzene			35-3	SB-4	SB-5	SB-6	SB-7	SB-8
Toluene	1	 -	 	 	 	-	ļ	
Ethylbenzene	1	 	 	 	 	ļ		
Xylenes			 -	 	 	<u> </u>		
Naphthalene								
Benzo(a)anthracene				 -				
Benzo(b)flouranthene								
Benzo(k)flouranthene	+							
Chrysene					-			
Dibenz(a,h)anthracene						<u> </u>		
PH (EPA 3550)								
			_		T	T		

CoC	SB-9	SB-10	SB-11	00 46		7 -	7	
Benzene		100.10	36-11	SB-12	SB-13	SB-14	SB-15	SB-16
Toluene			 -			ļ		
Ethylbenzene	+	 		 				
Xylenes		 						
Naphthalene	+	 			· ·			
Senzo(a)anthracene								
enzo(b)flouranthene	+							
enzo(k)flouranthene					 			
hrysene		<u> </u>			•			
benz(a,h)anthracene	+							
H (EPA 3550)	1							

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	RBS		W-		\top			T		-		
	(µg/		"			W-	2		W -3	1	W -4	4
Free Product Thickness	Non	е			\dagger			\vdash	_	+		_
Benzene	5	1		-	+-	-						_
Toluene	1,000	,			 					+		_
Ethylbenzene	700	1			-		-	 -		+		_
Xylenes	10,000	1			ļ- <u></u> -		1			+		
Total BTEX	N/A	†					\dashv			+-		
MTBE	40	†		1			+			╁-	-	_
Naphthalene	25			1			\dagger		-	-		+
Benzo(a)anthracene	10	T		+			+			-		
Benzo(b)flouranthene	10	T		\dagger			╁	<u> </u>	-	-		
Benzo(k)flouranthene	10		· ·	\dagger			+					
Chrysene	10			┢			+-					
Dibenz(a,h)anthracen	10					- <u>-</u>	-			<u> </u>		
DB	.05			\vdash			-		\dashv	 _		
2-DCA	.05					·			+			
ead	Site specific								+		$-\parallel$	

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)

4310 East Anderson Road Orlando, FL 32812 * 800-851-2560 * Fax 407-856-0886

ANALYTICAL TESTING CORPORATION

Client: EPG, INC.

PO BOX 1096

MT PLEASANT, SC 29465

JOHN MAHONEY Attn:

Work Order:

Project:

OQF0493

LAUREL BAY

Project Number:

EP2362

Sampled: 06/19/07-06/22/07

Received: 06/27/07

LABORATORY REPORT

Sample ID: 281 BIRCH-SIDE 04 - Lab Number: OQF0493-04 - Matrix: Solid/Soil

	*						1 177.6	TITEL SOUTH SC	Ж		
CAS#	Analyte	Result	Q	Units	MDL	PQL	Dil Facto	Analyzed Date/Time	Ву	Method	Batch
Ројупис 3-32-9	lear Aromatic Hydrocarbo	ns by EPA Met	hod 82					- Date Time	- ,		
	Acenaphthene	86.5	U	ug∕kg dry	96.5						
:08-96-8	Acenaphthylene	114	บ		86.5	195	1	06/29/07 18:53	REM	EPA 8270C	7F28007
20-12-7	Anthracene	62.2	-	ug/kg dry	114	195	1	06/29/07 18:53	REM	EPA 8270C	7F28007
6-55-3	Benzo (a) anthracene		ं ज	ug/kg dry	62.2	195	1	06/29/07 18:53	REM		7F28007
05-99-2	Benzo (b) fluoranthene		· U	ug/kg dry	21.1	195	1	06/29/07 18:53		EPA 8270C	
07-08-9	Benzo (k) fluoranthene	20.5	U	ug/kg dry	20.5	195	1	06/29/07 18:53			7F28007
91-24-2		20.5	Ū	ug/kg dry	20.5	195	1	06/29/07 18:53		EPA 8270C	7F28007
0-32-8	Benzo (g,h,i) perylene	20.2	บ	ug/kg dry	20.2	195	1			EPA 8270C	7F28007
	Benzo (a) pyrene	24.0	Ü	ug/kg dry	24.0	195	,	06/29/07 18:53	REM	EPA 8270C	7F28007
0-12-0	1-Methylnaphthalenc	97.9	U	ug/kg dry	97.9		1	06/29/07 18:53	REM	EPA 8270C	7F28007
18-01-9	Chrysene	23.3	Ū			195	1	06/29/07 18:53	REM	EPA 8270C	7F28007
3-70-3	Dibenz (a,h) anthracene	25.6		ug/kg dry	23.3	195	1	06/29/07 18:53	REM	EPA 8270C	7F28007
)6-44-0	Fluoranthene	28.1	U	ug/kg dry	25.6	195	1	06/29/07 18:53	REM	EPA 8270C	7F28007
5-73-7	Fluorene		. บ	nā∖kā qiÁ	28.1	195	1	06/29/07 18:53	REM	EPA 8270C	7F28007
¥3-39-5	Indeno (1,2,3-cd) pyrene	76.4	U	ug/kg dry	76.4	195	1	06/29/07 18:53	REM	EPA 8270C	
57-6	2-Methylnaphthalene	25.3	ប	ug/kg dry	25.3	195		06/29/07 18:53			7F28007
20-3		83.2	U	ug/kg dry	83.2	195				EPA 8270C	7F28007
=	Naphthalene	78.4	U	ug/kg dry	78.4	195		06/29/07 18:53	REM	EPA 8270C	7F28007
i-01-8	Phenanthrene	46.0	U	ug/kg dry	46.0	- •		06/29/07 18:53	REM	EPA 8270C	7F28007
:9-00-0	Pyrene	39.6	ับ		_	195	1	06/29/07 18:53	REM	EPA 8270C	7F28007
:rrogate: 2-	Fluorobiphenyl (24-121%)	68 %	J	ug/kg dry	39.6	195	1 (06/29/07 18:53	REM	EPA 8270C	7F28007
rrogate: Ni	trobenzene-d5 (19-11196)	67 %			•					· - -	
	rphenyl-d14 (44-171%)							٠			
<u>-</u> -	· v ··································	102 %									

LABORATORY REPORT

Sample ID: 283 BIRCH-BOTTOM 01 - Lab Number: OQF0493.

AS# 	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed	Ву	Method	Datah
eneral	Chemistry Parameters							Date/Time	29	Mentod	Batch
	% Solids	82.4	Q	%.	0.100						
latile 3-2	Organic Compounds by EPA	Method 82601	` }	, 4.	0.100	0.100	1	06/28/07 18:30	RRP	EPA 160.3	7F28049
	Denzene .	0.212	ש	ug/kg dry	0.212	0.500					
41-4	Ethylbenzene	0,246	ซ	=		0.580	I	06/27/07 15:06	ЛLS	EPA 8260B	7F27039
0-3	Naphthalene	0.321	-	ug/kg dry	0.246	0.580	1	06/27/07 15:06	JLS	EPA 8260B	7F27039
88-3	Toluene	0.501	Ū	ug/kg dry	0.321	0.580	ı	06/27/07 15:06	ЛLS	EPA 8260B	7F27039
20-7	Xylenes, total		U	ug/kg dry	0.501	0.580	1	06/27/07 15:06	JLS	EPA 8260B	
gate:]	,2-Dichloroethane-d4 (73-137%)	0.301	U	ug/kg dry	0.301	0.580	1	06/27/07 15:06	JLS	EPA 8260B	7F27039 7F27039
gate: 4	I-Bromofluorobenzene (59-118%)	90 % 94 %								2111 020013	71.27039
gate: L	Dibromofluoromethane (55-145%)	94 % 97 %									
gate: 7	oluene-d8 (70-130%)	100 %	•	*				•			
nucle	ear Aromatic Hydrocarbons b	y EPA Method	1 8270	0	i.				•		
6-8	Acenaphthylene	89.8	-U	ug/kg dry-	89.8 —	203	— 1 —	06/29/07 19:15	REM-	PD + 5000	
2-7		. 119	U	ug/kg dry	119	203				EPA 8270C	7F28007
•	Anthracene	64.7	U.	ug/kg dry	64.7	203				EPA 8270C	7F28007
.3	Benzo (a) anthracene	45.3	ī	ug/kg dry	22.0			•	REM	EPA 8270C	7F28007
			•	-C. v.P. or A	42.U	203	1	06/29/07 19:15	REM	FPA 8270C	7F29007

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

ANALYTICAL TESTING CORPORATION

4310 East Anderson Road Orlando, FL 32812 * 800-851-2560 * Fax 407-856-0886

Client: EPG, INC.

Attn:

PO BOX 1096

MT PLEASANT, SC 29465

JOHN MAHONEY

Work Order:

Project:

OQF0493

LAUREL BAY

Project Number: EP2362

Sampled: 06/19/07-06/22/07

Received: 06/27/07

LABORATORY REPORT

Sample ID: 283 BIRCH-BOTTOM 01 - Lab Number: OQF0493-05 - Matrix: Solid/Soil

CAS#	Analyte	Result					Dil	Matrix: Solid	/8011		
olynuc	lear Aromatic Uvd-		Q 	Units	MDL	PQL	Factor	Analyzed Date/Time	Ву	Method	Batch
5-99-2	lear Aromatic Hydrocarbo Benzo (b) fluoranthene	ns by EPA Met	thod 82	70 - Cont.							
07-08 -9	Benzo (k) fluoranthene	21.3	U	ug/kg dry	21.3	203	1	06/20/02 10 1			
1-24-2	Benzo (g,h,i) perylene	30.4	I	ug/kg dry	21.3	203	,	06/29/07 19:15	-		7F280
-32-8	Benzo (a) pyrene	21.0	U	цg/kg dry	21.0	203	1	06/29/07 19:15		EPA 8270C	7F280(
-12-0		25.0	U	ug/kg dry	25.0	203	1	06/29/07 19:15		EPA 8270C	7F2800
8-01-9	l-Methylnaphthalene	102	U	ug/kg dry	102		1	06/29/07 19:15		EPA 8270C	7F2800
70-3	Chrysene	47.8	F	ug/kg dry	24.3	203	I	06/29/07 19:15		EPA 8270C	7F2800
-44-0	Dibenz (a,h) anthracene	26.6	IJ	ug/kg dry	26.6	203	1	06/29/07 19:15	REM	EPA 8270C	7F2800
73-7	Fluoranthene	59.5	ī	ug/kg dry		203	1	06/29/07 19:15	REM	EPA 8270C	7F2800
	Fluorene	79.4	U	-	29.2	203	1	06/29/07 19:15	REM	EPA 8270C	7F2800
-39-5	Indeno (1,2,3-cd) pyrene	26.3	ŭ	ug/kg dry	79.4	203	1	06/29/07 19:15	REM	EPA 8270C	7F2800
57-6	2-Methylnaphthalene	86.5	บ	ug/kg dry	26.3	203	1	06/29/07 19:15	REM	EPA 8270C	
20-3	Naphthalene	81.4		ug/kg dry	86.5	203		06/29/07 19:15	REM	EPA 8270C	7F28007
91-8	Phenanthrene	65,6	û	ñâ\rã qiñ	<u>81.4</u>	203		06/29/07 19:15	PEM	EPA 8270C	7F28007
00-0	Ругепе	74.5	I	ug/kg dry	47.8	203		06/29/07 19:15			7F28007
ogate: 2-	Fluorobiphenyl (24-121%)	*	' I	ug/kg dry	41.2	203		06/29/07 19:15			7F28007
ogate: Ni	trobenzene-d5 (19-111%)	49 %					•		REM	EPA 8270C	7F28007
gate: Te	rphenyl-d14 (44-171%)	50 %							•		
		95 %									

LABORATORY REPORT

Sample ID: 283 BIRCH-SIDE 02 - Lab Number: OQF0493-06 - Matrix: Solid/Soil

4S #	Analyte .	Result			- Liber. O	Qr0493-0	Dii	latrix: Solid/So	i] ——		<u> </u>
nera	Chemistry Parameters	. Acsult	Q —	Units	MDL	PQL	Fact		Ву	Method	Batch
atile 3-2	% Solids Organic Compounds by EPA Benzene	83.4 Method 8260] 0.159		%.	0.100	0.100	1	06/28/07 18:30	RRP	EPA 160.3	7F28050
gate: 4 gate: 1 gate: T	Ethylbenzene Naphthalene Toluene Xylenes, total 1,2-Dichloroethane-d4 (73-137%) 4-Bromofiuorobenzene (59-118%) Dibromofluoromethane (55-145%) Toluene-d8 (70-130%)	0.184 4.65 0.376 0.226 86 % 93 % 98 %	U U U	ug/kg dry ug/kg dry ug/kg dry ug/kg dry ug/kg dry	0.159 0.184 0.240 0.376 0.226	0.435 0.435 0.435 0.435 0.435	1 1 1 1	06/27/07 23:09 06/27/07 23:09 06/27/07 23:09 06/27/07 23:09 06/27/07 23:09	ILS ILS ILS ILS ILS	EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B	7F27039 7F27039 7F27039 7F27039 7F27039
9 -8 -7 3 -2 -9 2	Par Aromatic Hydrocarbons I Acenaphthene Acenaphthylene Anthracene Benzo (a) anthracene Benzo (b) fluoranthene Benzo (k) fluoranthene Benzo (g,h,i) perylene Benzo (a) pyrene	88.7 117 63.8 21.7 21.1 20.8	1 827 บ บ บ บ บ บ	O ug/kg dry	88.7 117 63.8 21.7 21.1 20.8 24.6	200 200 200 200 200 200 200 200 200	1 I 1	06/29/07 19:37 1 06/29/07 19:37 1 06/29/07 19:37 F 06/29/07 19:37 F 06/29/07 19:37 F	REM REM REM REM REM REM	EPA 8270C EPA 8270C EPA 8270C	7F28007 7F28007 7F28007 7F28007 7F28007 7F28007 7F28007 7F28007

TestAmerica - Orlando, FL

Enid Ortiz For Shali Brown Project Manager

ANALYTICAL TESTING CORPORATION

4310 East Anderson Road Orlando, FL 32812 * 800-851-2560 * Fax 407-856-0886

Client: EPG, INC.

PO BOX 1096

MT PLEASANT, SC 29465

JOHN MAHONEY

Work Order:

Project:

OQF0493

LAUREL BAY

Project Number: EP2362 Sampled: 06/19/07-06/22/07

Received: 06/27/07

LABORATORY REPORT

Sample ID: 283 BIRCH-SIDE 02 - Lab Number: OQF0493-06 - Matrix: Solid/Soil

CAS#	Analyte				amber: O	QF0493-0	6 - Ma	atrix: Solid/So	oil		
Polynucie 0-12-0	ear Aromatic Hydrocarbo 1-Methylnaphthalene	Result	Q thod 82	Units 70 - Cont.	MDL	PQL	Dil Factor	Analyzed Date/Time	Ву	Method	Batch
18-01-9 3-70-3 26-44-0 3-39-5 -57-6 20-3 01-8 1-00-0 rogate: 2-FI	Chrysene Dibenz (a,h) anthracene Fluoranthene Fluorene Indeno (1,2,3-cd) pyrene 2-Methylnaphthalene Naphthalene Phenanthrene Pyrene luorobiphenyl (24-121%) obenzene-d5 (19-111%)	24.0 26.3 28.8 78.4 25.9 85.4 80.4 73.1 40.7 65 % 67 %	1 U U U U U U U U	ug/kg dry	101 24.0 26.3 28.8 78.4 25.9 85.4 80.4 47.2 40.7	200 200 200 200 200 200 200 200 200 200	1 1 1	06/29/07 19:37 06/29/07 19:37 06/29/07 19:37 06/29/07 19:37 06/29/07 19:37 06/29/07 19:37 06/29/07 19:37 06/29/07 19:37 06/29/07 19:37	REM REM REM REM REM REM REM	EPA 8270C EPA 8270C	7F28007 7F28007

LABORATORY REPORT

Sample ID: 293 BIRCH-BOTTOM 01 - Lab Number: OQF0493-07 - Matrix: Solid/Soil

:AS#	Analyte				III	· OQr045	<i>'3-</i> 07	- Ma	trix: Soli	id/Soil		
	<u>. </u>	Result .	(Q Units	MDL		E.	il A	nalyzed			
•	Chemistry Parameters % Solids							tor C	ate/Time	B;	y Method	Batch
olatile -43-2	Organic Compounds by EP	75.7 A Method 8260)B	%,	0.100	0.100	1	06	/28/07 18:3	30 RR	P EPA 160.3	7F28050
ogate: 4 Ogate: D Ogate: Ti	Ethylbenzene Naphthalene Toluene Xylenes, total (,2-Dichloroethane-d4 (73-137%) -Bromofluorobenzene (59-118%) Dibromofluoromethane (55-145%) oluene-d8 (80-117%) ar Aromatic Hydrocarbons i	10.0 26.2 243 23.6 14.2 79 % 94 % 101 %	U U U	ug/kg dry ug/kg dry ug/kg dry ug/kg dry ug/kg dry		27.3 27.3 27.3 27.3 27.3	50 50 50 50	06/2 06/2 06/2	29/07 11:2 29/07 11:2 29/07 11:2 29/07 11:2 19/07 11:2	2 JLS 2 JLS 2 JLS	EPA 8260E EPA 8260E EPA 8260E EPA 8260E EPA 8260B	7F27039 7F27039 7F27039
96-8 2-7 -3 9-2 8-9 4-2 8 0	Acensphthene Acensphthene Acensphthylene Anthracene Benzo (a) anthracene Benzo (b) fluoranthene Benzo (g,h,i) perylene Benzo (a) pyrene 1-Methylmaphthalene Chrysene Dibenz (a,h) anthracene	129 1210 23.9 23.2 23.2 22.9 27.1 24700 72.2 29.0	n n n n	ug/kg dry	29.0	221 221 221 221 221 221 221 221 2210 221	10 1	06/29 06/29 06/29/ 06/29/ 06/29/ 06/29/ 07/02/(7 19:59	REM REM REM REM REM REM REM	EPA 8270C	7F28007 7F28007 7F28007 7F28007 7F28007 7F28007 7F28007 7F28007 7F28007
FestA n Enid O	nerica - Orlando, FL		, 1	ug/kg dry	31.7	221			_			7F28007 7F28007

Enid Ortiz For Shali Brown

Project Manager

Test/America To assist us in using the proper analytical methods. is this work being conducted for regulatory purposes? Compliance Monitoring Client Name Client#: 2411 Address: Project Name: City/State/Zip Code: Project Manager: MAHONEY Telephone Number: Site/Location ID: State: Fax Sampler Name: (Print Name) Report To: Sampler Signature: ENDUM. Invoice To: Quote #: TAT Standard Matrix Preservation & # of Containen PO#: Analyza For Rush (surcharges may apply) QC Deliverables None Date Needed: 20 Level 2 (Batch OC) Fax Results: Y N Level 3 = Grath, C Level 4 SAMPLE ID Other: REMARKS 293 BIRCH BOTTOM JBRIECH ZIDE 293Birch Special Instructions: LABORATORY COMMENTS: Init Lab Temp: Rec Lab Temp: 6 Relinquished By: Custody Seals: Y N N/A Bottles Supplied by Test America: Received By: Time 9.50 Relinquished By: 8623 2591.1107/ Method of Shipment: Fe0tX 1074 Date: Received By: Date: Time:

90f0493 To assist us in using the proper analytical methods is this work being conducted for regulatory purposes? Client Name Compliance Monitoring Client#: 2411 Address: MIRELBAY City/State/Zip Code: Project Name: WHO MAHONEY Project Manager: Telephone Number: Sita/Location ID: State Fax Sampler Name: (Print Name) HRIS ECHEVARRIA Report To: Sampler Signature: work Invoice To: Quote #: Matrix Preservation & # of Containers X Standard Analyze For: Rush (surcharges may apply) QC Deliverables Date Needed: None X Level 2 Fax Results: Y N (Batch OC) Level 3 G = Grab, Level 4 SAMPLE ID Other: BIRCH BATTOM OI 322·07/930 REMARKS Special Instructions: LABORATORY COMMENTS: 70 Init Lab Temp: Rec Lab Temp: Custody Seals: Y N Received By:

Date:

Time:

Relinquished By:

Date:

Received By:

Bottles Supplied by Test America: Y N

06.23.2 59/1107 Method of Shipment: Fe 07X 1074-0





283 BIRCH 5-20-07 13 BASE DEPTH 53" (FULL ODOR & Boitom of EXCAUATION) 283

A B X

TANK | BASE 53"

BIRCH DRIVE

TANK I EXCAVATION

A-SOIL TEST SIDE SAMPLE @ 40"
B-SOIL TEST BOTTOM SAMPLE @ 53"
X-MILD DIESEL ODOR @ BOTTOM OF EXCAVATION

NI.

CUSTOMER:

BEAUFORT MILITARY COMPLEX FAMILY HOUSING

SITE ADDRESS:

283 BIRCH DRIVE

SCALE: 1/16"=1'-0"

SUPPLIER: EPG INC. DATE:

9/27/2007

EPG INC.

P.O. BOX 1096 MOUNT PLEASANT, SC 29465-1096

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

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)

		01 001 (0)
	mmanding Officer Attn: N	REAO (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. #					
<u>Laurel Bay Milita</u>		Marine Corp	<u>s Air Station</u>	, Beaufort	, SC_
Facility Name or Company	Site Identifier				
_283 Birch Drive,		tary Housing	Area	•	
Street Address or State Roa	d (as applicable)				
Beaufort,	Beaufort				. .
City	County				:
l					

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

	THE TIOM TRIPORTE AMEAN	
	VI. UST INFORMATION	283Birch
	Product(ex. Gas, Kerosene)	Heating oil
	Capacity(ex. 1k, 2k)	280 gal
	Age	Late 1950s
	Construction Material(ex. Steel, FRP)	Steel
	Month/Year of Last Use	Mid 80s
	Depth (ft.) To Base of Tank	418"
	Spill Prevention Equipment Y/N	No .
	Overfill Prevention Equipment Y/N	No
	Method of Closure Removed/Filled	Removed
	Date Tanks Removed/Filled	10/13/2011
	Visible Corrosion or Pitting Y/N	Yes
	Visible Holes Y/N	Yes
,	Method of disposal for any USTs removed from the UST 283Birch was removed from the "D" landfill. See Attachment "A.	e ground and disposed at a Subtitle
	Method of disposal for any liquid petroleum, sludge disposal manifests) UST 283Birch had been previously	
,	If any corrosion, pitting, or holes were observed, des Corrosion and pitting were found	

VII. PIPING INFORMATION

•		283Birch
		Steel
A.	Construction Material(ex. Steel, FRP)	& Copper
B.	Distance from UST to Dispenser	N/A
C.	Number of Dispensers:	N/A
D.	Type of System Pressure or Suction	Suction
Ε.	Was Piping Removed from the Ground? Y/N	No
F.	Visible Corrosion or Pitting Y/N	Yes
G.	Visible Holes Y/N	No
Н.	Age	Late 1950s
I.	If any corrosion, pitting, or holes were observed, de	scribe the location and extent for each piping run.
	The steel vent piping was corrode	
	supply and return piping was soun	d
	·	
	VIII. BRIEF SITE DESCRI	PTION AND HISTORY
	The USTs at the residences are cor	· · · ·
	and formerly contained fuel oil for	or heating. These USTs were
	installed in the late 1950s and la	ast 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.		Х	
B. Were any petroleum odors detected in the excavation, soil borings, trenches, or monitoring wells?		х	
If yes, indicate location on site map and describe the odor (strong, mild, etc.)			
C. Was water present in the UST excavation, soil borings, or trenches?		х	
If yes, how far below land surface (indicate location and depth)?			
D. Did contaminated soils remain stockpiled on site after closure?		х	
· If yes, indicate the stockpile location on the site map. Name of DHEC representative authorizing soil removal:		٠.	
E. Was a petroleum sheen or free product detected on any excavation or boring waters?		Х	
If yes, indicate location and thickness.			•

X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 84009

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA#
283 Birch	Excav at fill end	Soil	Sandy	4'8"	10/13/11 1200 hrs	P. Shaw	
· -,				•		·	
٠.		<i>.</i> .			·		
8				•			
9			· · · · · · · · · · · · · · · · · · ·				
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20	,						

^{* =} Depth Below the Surrounding Land Surface

XI. SAMPLING METHODOLOGY

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

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

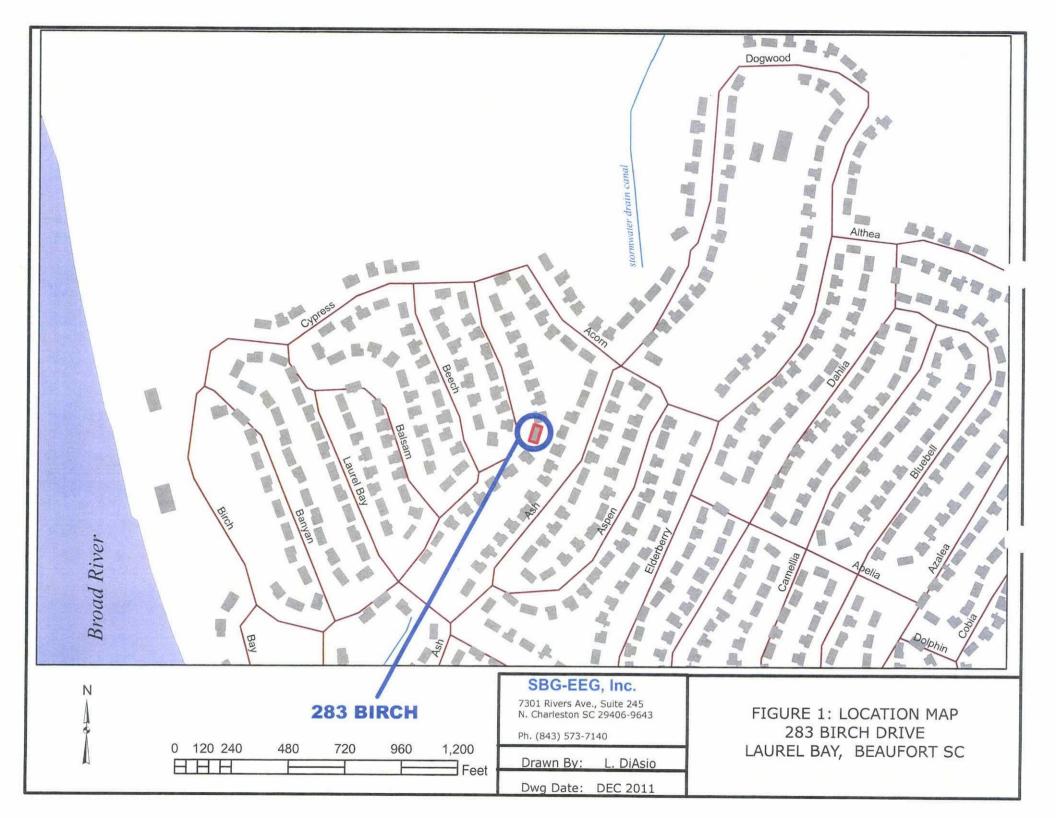
XII. RECEPTORS

		Yes	No
A.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?	*X	
	*~ 760' to stormwater drainage of If yes, indicate type of receptor, distance, and direction on site map.	canal	
B.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?		Х
	If yes, indicate type of well, distance, and direction on site map.		
C.	Are there any underground structures (e.g., basements) Located within 100 feet of the UST system?		х
	If yes, indicate type of structure, distance, and direction on site map.	·	
D.	Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the	*X	
	contamination? *Sewer, water		I II
	electricity &	fibe:	c optic
	If yes, indicate the type of utility, distance, and direction on the site		
	map.		
E.	Has contaminated soil been identified at a depth less than 3 feet below land surface in an area that is not capped by asphalt or concrete?		Х
	If yes, indicate the area of contaminated soil on the site map.		

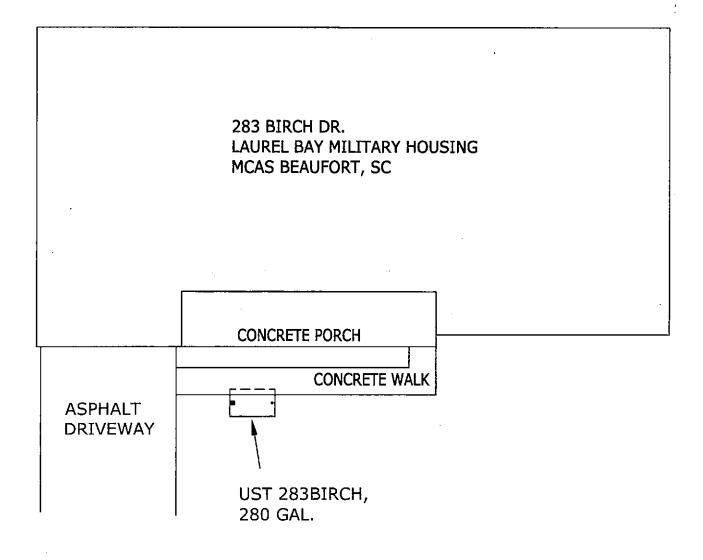
XIII. SITE MAP

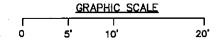
You must supply a <u>scaled</u> site map. It should include all buildings, road names, utilities, tank and dispenser island locations, labeled sample locations, extent of excavation, and any other pertinent information.

(Attach Site Map Here)









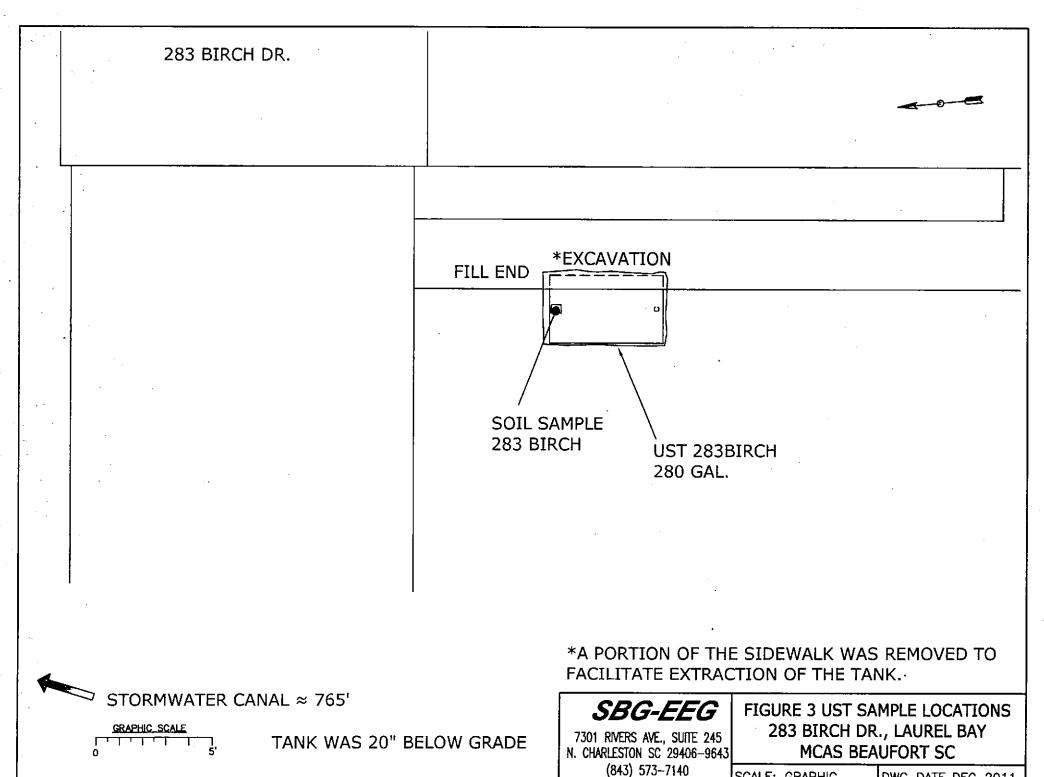
SBG-EEG

7301 RIVERS AVE., SUITE 245 N. CHARLESTON SC 29406-9643 (843) 573-7140

SCALE: GRAPHIC

FIGURE 2 SITE MAP 283 BIRCH DR., LAUREL BAY MCAS BEAUFORT SC

DWG DATE DEC 2011



SCALE: GRAPHIC DWG DATE DEC 2011



Picture 1: Location of UST 283Birch.



Picture 2: UST 283Birch 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.

·			<u> </u>	1		T		nowing page
CoC UST	283 B:	ırcn						· · · · · · · · · · · · · · · · · · ·
Benzene		ND					<u> </u>	· · · · · · · · · · · · · · · · ·
Toluene		N D	* * *		. •			
Ethylbenzene		ND			20g	• • •	-	 .
Xylenes		ND	,	, * , #				
Naphthalene	0.0402	mg/kg						-
Benzo (a) anthracene		ND						
Benzo (b) fluoranthene		· ND					٨.	
Benzo (k) fluoranthene	•	ND			r.			v
Chrysene		ND		•				
Dibenz (a, h) anthracene		ND						
TPH (EPA 3550)								
CoC		:			<u> </u>			·
Benzene								
Toluene		7						
Ethylbenzene			*	_ •				
Xylenes								
Naphthalene	; .					·	•	
Benzo (a) anthracene			Ţ,					
Benzo (b) fluoranthene		٠,						
Benzo (k) fluoranthene	* **		- 15		· .			
Chrysene					:			
Dibenz (a, h) anthracene								
TPH (EPA 3550)	:	,		·	-			

SUMMARY OF ANALYSIS RESULTS (cont'd)

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

CoC	RBSL	W-1	W-2	W -3	W -4
	(µg/l)		74-2	***	77 -7
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)





October 31, 2011

2:21:48PM

Client:

EEG - Small Business Group, Inc. (2449)

10179 Highway 78

Ladson, SC 29456

Attn:

Tom McElwee

Work Order:

NUJ2184

Project Name:

Laurel Bay Housing Project

Project Nbr:

[none] 1035

P/O Nbr: Date Received:

1035 10/15/11

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE AND TIME

392 Acorn

283 Birch

NUJ2184-01

10/12/11 12:15

NUJ2184-02

10/13/11 12:00

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately at 615-726-0177.

South Carolina Certification Number: 84009

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

All solids results are reported in wet weight unless specifically stated.

Estimated uncertainty is available upon request.

Roxame L. Connor

This report has been electronically signed.

Report Approved By:

Roxanne Connor

Program Manager - Conventional Accounts



10179 Highway 78 Ladson, SC 29456 Tom McElwee

Attn

Work Order:

NUJ2184

Project Name:

Laurel Bay Housing Project

 $\label{eq:project Number: Project Number: Pr$

[none]

Received:

10/15/11 08:40

ANALYTICAL REPORT

			72, 1122 1	TICINO NO	TOKI				`+ <u> </u>	
	.*:		¥1		MDX	Dilution				
Analyte	Result	Flag	Units	MDL	MRL	Factor	Date/Time	Method	Analyst	Batch
Sample ID: NUJ2184-01 (39	2 Acorn - Soil) San	ipled:	10/12/11 12	:15	-		:			
General Chemistry Parameters										
% Dry Solids	78,3		%	0.500	0.500	1	10/26/11 12:50	SW-846	RRS	11J5741
Volatile Organic Compounds by	y EPA Method 8260B								.*	
Benzene	ND		mg/kg dry	0.00126	0.00230	1	10/21/11 20:57	SW846 8260B	KKK	11J5081
Ethylbenzene	0.0321		mg/kg dry	0.00126	0.00230	1	10/21/11 20:57	SW846 8260B	KKK	1135081
Naphthalene	1.04		mg/kg dry	0.136	0.273	50	10/22/11 14:24	SW846 8260B	KKK	11J5196
Toluene	0.00136	J	mg/kg dry	0.00126	0.00230	· 1	10/21/11 20:57	SW846 8260B	KKK	11J5081
Xylenes, total	0.00316	J	mg/kg dry	0.00287	0.00574	1	10/21/11 20:57	SW846 8260B	KKK	[1]5081
Surr: 1,2-Dichloroethane-d4 (70-130%)	106 %	•	•	0.00207	0.00374		10/21/11 20:57	SW846 8260B		
Surr: 1,2-Dichloroethane-d-1 (70-130%)	. 110%				•	1 50	10/21/11 20:3/	SW846 8260B	KKK	11,15081
Surr: Dibromofluoromethane (70-130%)	105 %					30 1	10/21/11 20:57	SW846 8260B	KKK KKK	11J5196 11J5081
Surr: Dibromofluoromethane (70-130%)	101 %					50	10/22/11 14:24	SW846 8260B	KKK	1135081
Surr: Toluene-d8 (70-130%)	· 106%					1	10/21/11 20:57	SW846 8260B	KKK	11J5081
Surr: Toluene-d8 (70-130%)	98 %					50	10/22/11 14:24	SW846 8260B	KKK	11,5196
Surr: 4-Bromofluorobenzene (70-130%)	111 %					1	10/21/11 20:57	SW846 8260B	KKK	1135190
Surr: 4-Bromosluorobenzene (70-130%)	96 %					50	10/22/11 14:24	SW846 8260B	KKK	1135196
Polyaromatic Hydrocarbons by 1	EPA 8270D					20		0	KILL.	1100170
Acenaphthene	ND		mg/kg dry	0.0427	0.0841	1	10/18/11 18:23	SW846 8270D	BES	11J3932
Acenaphthylene	ND		mg/kg dry	0.0427	0.0841	1	10/18/11 18:23	SW846 8270D	BES	11J3932
Anthracene	ND		mg/kg dry	0.0427	0.0841	ŧ	10/18/11 18:23	SW846 8270D	BES	11J3932
Benzo (a) anthracene	ND		mg/kg dry	0.0427	0.0841	1	10/18/11 18:23	SW846 8270D	BES	11J3932
Benzo (a) pyrene	ND		mg/kg dry	0.0427	0.0841	1	10/18/11 18:23	SW846 8270D	BES	11J3932
Велzo (b) fluoranthene	ND		mg/kg dry	0.0427	0.0841	1	10/18/11 18:23	SW846 8270D	BES	11J3932
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0427	0.0841	1	10/18/11 18:23	SW846 8270D	BES	11J3932
Benzo (k) fluoranthene	ND		mg/kg dry	0.0427	0.0841	1	10/18/11 18:23	SW846 8270D	BES	11J3932
Chrysene	ND		mg/kg dry	0.0427	0.0841	1	10/18/11 18:23	SW846 8270D	BES	11J3932
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0427	0.0841	1	10/18/11 18:23	SW846 8270D	BES	11J3932
Fluoranthene	ND		mg/kg dry	0.0427	0.0841	1	10/18/11 18:23	SW846 8270D	BES	11J3932
Fluorene	ND		mg/kg dry	0.0427	0.0841	1	10/18/11 18:23	SW846 8270D	BES	11J3932
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0427	0.0841	ī	10/18/11 18:23	SW846 8270D	BES	11/3932
Naphthalene	0.111		mg/kg dry	0.0427	0.0841	1	10/18/11 18:23	SW846 8270D	BES	11J3932
Phenanthrene	0.0795	J	mg/kg dry	0.0427	0.0841		10/18/11 18:23	SW846 8270D	BES	11J3932
Pyrene	ND	-	mg/kg dry	0.0427	0.0841	. 1		SW846 8270D		11J3932
1-Methylnaphthalene	0,220		mg/kg dry	0.0427	0.0841		10/18/11 18:23		BES	11J3932
2-Methylnaphthalene	0.411		mg/kg dry	0.0427	0.0841		10/18/11 18:23	SW846 8270D	BES	11J3932
Surr: Terphenyl-d14 (18-120%)	80 %		5 8-5	0.0427	U.U84 I		10/18/11 18:23	SW846 8270D		
Surr: 2-Fluorobiphenyl (14-120%)	62 %					1	10/18/11 18:23	SW846 8270D	BES	11J3932
Surr: Nitrobenzene-d5 (17-120%)	57%					1	10/18/11 18:23	SW846 8270D	BES	11J3932
	. 11.11		9			1	10/18/11 18:23	SW846 8270D	BES	11,J3932



10179 Highway 78 Ladson, SC 29456

Attn Tom McElwee

Work Order:

NUJ2184

Project Name:

Laurel Bay Housing Project

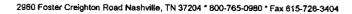
Project Number:

[none]

Received: 10/15/11 08:40

ANALYTICAL REPORT

			ANALY	TICAL REP	UKI					
Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUJ2184-02 (283 Bi	rch - Soil) Sar	npled: 1	0/13/11 12:	00	•					
General Chemistry Parameters						•				
% Dry Solids	78.7		%	0.500	0.500	1	10/26/11 12:50	SW-846	RRS	11 J574 1
Volatile Organic Compounds by EP.	A Method 82601	В								
Benzene	ND		mg/kg dry	0.00115	0.00208	1	10/21/11 21:27	SW846 8260B	KKK	11J5081
Ethylbenzene	ND		mg/kg dry	0.00115	0.00208	1	10/21/11 21:27	SW846 8260B	KKK	11J5081
Naphthalene	0.0402		mg/kg dry	0.00260	0.00521	1	10/21/11 21:27	SW846 8260B	KKK	11J5081
Toluene	ND		mg/kg dry	0.00115	0.00208	1	10/21/11 21:27	SW846 8260B	KKK	11 J508 1
Xylenes, total	ND		mg/kg dry	0.00260	0.00521	1	10/21/11 21:27	SW846 8260B	KKK	11J5081
Surr: 1,2-Dichloroethane-d4 (70-130%)	104%					1	10/21/11 21:27	SW846 8260B	KKK	11,35081
Surr: Dibromofluoromethane (70-130%)	103 %				•	1	10/21/11 21:27	SW846 8260B	KKK	1135081
Surr: Toluene-d8 (70-130%)	102 %					1	10/21/11 21:27	SW846 8260B	KKK	11,5081
Surr: 4-Bromofluorobenzene (70-130%)	105 %					1	10/21/11 21:27	SW846 8260B	KKK	11.J5081
Polyaromatic Hydrocarbons by EPA	. 827 0D									
Acenaphthene	ND		mg/kg dry	0.0428	0.0843	1	10/18/11 18:45	SW846 8270D	BES	I 1J3932
Acenaphthylene	ND		mg/kg dry	0.0428	0.0843	1	10/18/11 18:45	SW846 8270D	BES	11J3932
Anthracene	ND		mg/kg dry	0.0428	0.0843	1	10/18/11 18:45	SW846 8270D	BES	11J3932
Benzo (a) anthracene	ND		mg/kg dry	0.0428	0.0843	1	10/18/11 18:45	SW846 8270D	BES	11J3932
Benzo (a) pyrene	ND		mg/kg dry	0.0428	0.0843	1	10/18/11 18:45	SW846 8270D	BES	11J3932
Benzo (b) fluoranthene	ND		mg/kg dry	0.0428	0.0843	. 1	10/18/11 18:45	SW846 8270D	BES	11J3932
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0428	0.0843	1	10/18/11 18:45	SW846 8270D	BES	11J3932
Benzo (k) fluoranthene	ND		mg/kg dry	0.0428	0.0843	1	10/18/11 18:45	SW846 8270D	BES	11J3932
Chrysene	ND		mg/kg dry	0.0428	0.0843	1	10/18/11 18;45	SW846 8270D	BES	11J3932
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0428	0.0843	1	10/18/11 18:45	SW846 8270D	BES	11J3932
Fluoranthene	ND		mg/kg dry	0.0428	0.0843	1	10/18/11 18:45	SW846 8270D	BES	11 J39 32
Fluorene	0.0553	Ţ	mg/kg dry	0.0428	0.0843	1	10/18/11 18:45	SW846 8270D	BES	11J3932
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0428	0.0843	1	10/18/11 18:45	SW846 8270D	BES	11J3932
Naphthalene	0.250		mg/kg dry	0.0428	0.0843	1	10/18/11 18:45	SW846 8270D	BES	11J3932
Phenanthrene	ND		mg/kg dry	0.0428	0.0843	1	10/18/11 18:45	SW846 8270D	BES	11 J3 932
Pyrene	ND		mg/kg dry	0.0428	0.0843	1	10/18/11 18:45	SW846 8270D	BES	11J3932
1-Methylnaphthalene	0,480		mg/kg dry	0.0428	0.0843	1	10/18/11 18:45	SW846 8270D	BES	11J3932
2-Methylnaphthalene	0.832		mg/kg dry	0.0428	0.0843	1	10/18/11 18:45	SW846 8270D	BES	11J3932
Surr: Terphenyl-d14 (18-120%)	74%					1	10/18/11 18:45	SW846 8270D	BES '	11J3932
Surr: 2-Fluorobiphenyl (14-120%)	57 %			*		1	10/18/11 18:45	SW8468270D	BES	11J3932
Surr: Nitrobenzene-d5 (17-120%)	55 %					1	10/18/11 18:45	SW846 8270D	BES	11J3932





10179 Highway 78 Ladson, SC 29456

Tom McElwee

Attn

Work Order:

NUJ2184

Project Name:

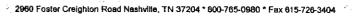
Laurel Bay Housing Project

Project Number: Received: [none]

10/15/11 08:40

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extract Vol	Date	Analyst	Extraction Method
Polyaromatic Hydrocarbons by I	EPA 8270D						
SW846 8270D	11J3932	NUJ2184-01	30.52	1,00	10/17/11 14:27	KDJ	EPA 3550C
SW846 8270D	11J3932	NUJ2184-02	30.32	1.00	10/17/11 14:27	KDJ	EPA 3550C
Volatile Organic Compounds by	EPA Method 8260B	•			•		
SW846 8260B	11J5081	NUJ2184-01	5.56	5,00	10/12/11 12:15	AAN	EPA 5035
SW846 8260B	11J5196	NUJ2184-01RE1	5,85	5.00	. 10/12/11 12:15	AAN	EPA 5035
SW846 8260B	11J5081	NUJ2184-02	6.10	5.00	10/13/11 12:00	AAN	EPA 5035





10179 Highway 78 Ladson, SC 29456

Tom McElwee

Attn

Work Order:

NUJ2184

Project Name:

Laurel Bay Housing Project

Project Number: Received: [none] 10/15/11 08:40

PROJECT QUALITY CONTROL DATA Blank

		_					_ -
Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time	
Volatile Organic Compounds by	EPA Method 8260B					••	
11J5081-BLK1	•						•
Benzene	<0.00110		mg/kg wet	11J5081	11J5081-BLK1	10/21/11 12:53	
Ethylbenzene	< 0.00110		mg/kg wet	11 , 5081	11J5081-BLK1	10/21/11 12;53	
Naphthalene	<0.00250		mg/kg wet	11 J50 81	11J5081-BLK1	10/21/11 12:53	
Toluene	<0.00110		mg/kg wet	11J5081	11J5081-BLK1	10/21/11 12:53	
Xylenes, total	<0.00250		mg/kg wet	11J5081	11J5081-BLK1	10/21/11 12:53	
Surrogate: 1,2-Dichloroethane-d4	108%			11J5081	11J5081-BLK1	10/21/11 12:53	
Surrogate: Dibromofluoromethane	109%			11J5081	11J5081-BLK1	10/21/11 12:53	
Surrogate: Toluene-d8	100%		•	11J5081	11J5081-BLK1	10/21/11 12:53	
Surrogate: 4-Bromofluorobenzene	99%			11J5081	11J5081-BLK1	10/21/11 12:53	•
11J5081-BLK2	·						
Benzene	<0.0550		mg/kg wet	11J5081	11J5081-BLK2	10/21/11 13:23	
Ethylbenzene	<0.0550		mg/kg wet	115081	11J5081-BLK2	10/21/11 13:23	
Naphthalene	<0.125		mg/kg wet	1135081	11J5081-BLK2	10/21/11 13:23	
Toluene	<0.0550		mg/kg wet	11J5081	11J5081-BLK2	10/21/11 13:23	
Xylenes, total	<0.125		mg/kg wet	11J5081	11J5081-BLK2	10/21/11 13:23	
Surrogate: 1,2-Dichloroethane-d4	109%			11J5081	11J5081-BLK2	10/21/11 13:23	
Surrogate: Dibromofluoromethane	110%			11J5081	11J5081-BLK2	10/21/11 13:23	
Surrogate: Toluene-d8	100%			11J5081	11J5081-BLK2	10/21/11 13:23	, , :
Surrogate: 4-Bromofluorobenzene	101%			[1]5081	11J5081-BLK2	10/21/11 13:23	
11J5196-BLK1			·				
Benzene	<0.00110		mg/kg wet	11J5196	11J5196-BLK1	10/22/11 13:53	
Ethylbenzene	< 0.00110		mg/kg wet	11J5196	11J5196-BLK1	10/22/11 13:53	
Naphthalene	< 0.00250		mg/kg wet	11J5196	11J\$196-BLK1	10/22/11 13:53	
Taluene	< 0.00110		mg/kg wet	11J5196	11J5196-BLK1	10/22/11 13:53	
Xylenes, total	< 0.00250		mg/kg wet	11J5196	11J5196-BLK1	10/22/11 13:53	
Surrogate: 1,2-Dichloroethane-d4	110%			11J5196	11J5196-BLK1	10/22/11 13:53	
Surrogate: Dibromofluoromethane	106%			11J5196	11J5196-BLK1	10/22/11 13:53	
Surrogate: Toluene-d8	98%			11J5196 -	11J5196-BLK1	10/22/11 13:53	
Surrogate: 4-Bromofluorobenzene	97%			11J5196	11 J5196-BLK 1	10/22/11 13:53	
11J5196-BLK2							
Benzene	<0.0550		mg/kg wet	11J5196	11J5196-BLK2	10/22/11 13:23	
Ethylbenzene	<0.0550		mg/kg wet	11J5196	11J5196-BLK2	10/22/11 13:23	
Naphthalene	<0.125		mg/kg wet	11J5196	11J5196-BLK2	10/22/11 13:23	
Toluene	<0.0550		mg/kg wet	11J5196	11J5196-BLK2	10/22/11 13:23	
Xylenes, total	<0.125		mg/kg wet	11J5196	11J5196-BLK2	10/22/11 13:23	
Surrogate: 1,2-Dichloroethane-d4	108%		<u>.</u>	11J5196	11J5196-BLK2	10/22/11 13:23	:
Surrogate: Dibromofluoromethane	105%	-		11J5196	11J5196-BLK2	10/22/11 13:23	4
Surrogate: Toluene-d8	80%			11J5196	11J5196-BLK2	10/22/11 13:23	•
Surrogate: 4-Bromofluorobenzene	97%			11J5196	11J5196-BLK2	10/22/11 13:23	
	2170				*		•





10179 Highway 78 Ladson, SC 29456

Tom McElwee

Attn

Work Order.

NUJ2184

Project Name:

Laurel Bay Housing Project

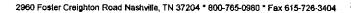
Project Number: [none]

Received:

10/15/11 08:40

PROJECT QUALITY CONTROL DATA Blank - Cont.

		; ;				· · · · · · · · · · · · · · · · · · ·	
Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time	•
Volatile Organic Compound	s by EPA Method 8260B						
Polyaromatic Hydrocarbons	by EPA 8270D			•			
11J3932-BLK1		*	•, •				•
Acenaphthene	<0.0340		mg/kg wet	11J3932	11J3932-BLK1	10/18/11 14:46	
Acenaphthylene	<0.0340		mg/kg wet	11J3932	11J3932-BLK1	10/18/11 14:46	
Anthracene	< 0.0340		mg/kg wet	11J3932	11J3932-BLK1	10/18/11 14:46	
Benzo (a) anthracene	<0.0340		mg/kg wet	1113932	11J3932-BLK1	10/18/11 14:46	
Benzo (a) pyrene	<0.0340		mg/kg wet	11J3932	11J3932-BLK1	10/18/11 14:46	
Benzo (b) fluoranthene	<0.0340		mg/kg wet	11J3932	11J3932-BLK1	10/18/11 14:46	
Benzo (g,h,i) perylene	<0.0340	1.	mg/kg wet	11J3932	11J3932-BLK1	10/18/11 14:46	
Benzo (k) fluoranthene	<0.0340		mg/kg wet	11J3932	11J3932-BLK1	10/18/11 14:46	
Chrysene	<0.0340		mg/kg wet	11J3932	11J3932-BLK1	10/18/11 14:46	*
Dibenz (a,h) anthracene	<0.0340		mg/kg wet	11J3932	11J3932-BLK1	10/18/11 14:46	
Fluoranthene	<0.0340		mg/kg wet	11J3932	11J3932-BLK1	10/18/11 14:46	
Fluorene	<0.0340		mg/kg wet	11J3932	11J3932-BLK1	10/18/11 14:46	
Indeno (1,2,3-cd) pyrene	<0.0340		mg/kg wet	11J3932	11J3932-BLK1	10/18/11 14:46	
Naphthalene	<0.0340		mg/kg wet	11J3932	11J3932-BLK1	10/18/11 14:46	
Phenanthrene	< 0.0340		mg/kg wet	11J3932	11J3932-BLK1	10/18/11 14:46	
Pyrene	<0.0340		mg/kg wet	11J3932	11J3932-BLK1	10/18/11 14:46	
1-Methylnaphthalene	<0.0340		mg/kg wet	11J3932	11J3932-BLK1	10/18/11 14:46	
2-Methylnaphthalene	< 0.0340		mg/kg wet	11J3932 *	11J3932-BLK1	10/18/11 14:46	
Surrogate: Terphenyl-dl4	87%			11J3932	11J3932-BLK1	10/18/11 14:46	
Surrogate: 2-Fluorobiphenyl	66%			11J3932	11J3932-BLK1	10/18/11 14:46	
Surrogate: Nitrobenzene-d5	64%			11J3932	11J3932-BLK1	10/18/11 14:46	





10179 Highway 78 Ladson, SC 29456

Tom McElwee

Attn

Work Order:

NUJ2184

Project Name:

Laurel Bay Housing Project

Project Number:

[none]

Received:

10/15/11 08:40

PROJECT QUALITY CONTROL DATA

Duplicate

Analyte	Orig, Val.	Duplicate	Q	Units	RFD	Limit	Batch	Sample Duplicated	% Rec.	Analyzed Date/Time
General Chemistry Parameters										
11J5741-DUP1 % Dry Solids	82.9	84.1		%	1	20	11J5741	NUJ1976-38		10/26/11 12:50



EEG - Small Business Group, Inc. (2449) Client

10179 Highway 78

Attn

Ladson, SC 29456 Tom McElwee

Work Order:

NUJ2184

Project Name:

Laurel Bay Housing Project

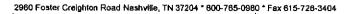
Project Number: Received:

[none]

10/15/11 08:40

PROJECT QUALITY CONTROL DATA LCS -

			<u> </u>	·· ·			
Analyte	Known Val.	Analyzed Val • Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by El	PA Method 8260B			<u> </u>	- .	V	
11J5081-BS1	: *						
Benzene	50.0	47.8	ug/kg	96%	75 - 127	11J5081	10/21/11 11:22
Ethylbenzene	50.0	49.2	ug/kg	98%	80 - 134	11J5081	10/21/11 11:22
Naphthalene	50.0	43 2	ug/kg	86%	69 - 150	11J5081	10/21/11 11:22
Toluene	50.0	50.2	ug/kg	100%	80 - 132	11J5081	10/21/11 11:22
Xylenes, total	150	149	ug/kg	99%	80 - 137	[1,508]	10/21/11 11:22
Surrogate: 1,2-Dichloroethane-d4	50.0	54.8		110%	70 - 130	11J5081	10/21/11 11:22
Surrogate: Dibromofluoromethane	50.0	54.2		108%	70 - 130	1135081	10/21/11 11:22
Surrogate: Toluene-d8	50.0	50.0		100%	70 - 130	1135081	
Surrogate: 4-Bromosluorobenzene	50,0	45.6		91%	70 - 130	1135081	10/21/11 11:22 10/21/11 11:22
11J5196-BS1							
Benzene	50.0	44.0	ug/kg	88%	75 - 127	11J5196	10/22/11 12:22
Ethylbenzene	50.0	46.2	ug/kg	92%	80 - 134	11J5196	10/22/11 12:22
Naphthalene	50.0	45.9	ug/kg	92%	69 - 150	11J5196	10/22/11 12:22
Toluene	50.0	45.6	ug/kg	91%	80 - 132	11J5196	10/22/11 12:22
Xylenes, total	150	140	ug/kg	93%	80 - 137	1135196	10/22/11 12:22
Surrogate: 1,2-Dichloroethane-d4	50,0	54.1	-55	108%	70 - 130	11,5196	10/22/11 12:22
Surrogate: Dibromofluoromethane	50.0	52.5		105%	70 - 130	1135196	10/22/11 12:22
Surrogate: Toluene-d8	50.0	49.6		99%	70 - 130	1135196	10/22/11 12:22
Surrogate: 4-Bromosluorobenzene	50.0	48.0		96%	70 - 130	11J5196	10/22/11 12:22
Polyaromatic Hydrocarbons by EP.	A 8270D						
11J3932-BS1							
Acenaphthene	1.67	1.23	mg/kg wet	74%	36 - 120	11J3932	10/18/11 15:08
Acenaphthylene	1.67	1.16	mg/kg wet	69%	38 - 120	11J3932	10/18/11 15:08
Anthracene	1.67	1.35	mg/kg wet	81%	46 - 124	11J3932 11J3932	
Benzo (a) anthracene	1.67	1.37	mg/kg wet	82%	45 - 120	11J3932	10/18/11 15:08
Benzo (a) pyrene	1.67	1.43	mg/kg wet	86%	45 - 120		10/18/11 15:08
Benzo (b) fluoranthene	1.67	1.41	mg/kg wet	85%		11J3932	10/18/11 15:08
Benzo (g,h,i) perylene	1.67	1.35	-		42 - 120	11J3932	10/18/11 15:08
Benzo (k) fluoranthene	1.67		mg/kg wet	81%	38 - 120	11J3932	10/18/11 15:08
		1.20	mg/kg wet	72%	42 - 120	11J3932	10/18/11 15:08
Chrysene Dibon (a b) anthrony	1.67	1.33	mg/kg wet	80%	43 - 120	11J3932	10/18/11 15:08
Dibenz (a,h) anthracene	1.67	1.34	mg/kg wet	80%	32 - 128	11J3932	10/18/11 15:08
Fluoranthene	1.67	1.38	mg/kg wet	83%	46 - 120	11J3932	10/18/11 15:08
Fluorene	1.67	1.28	mg/kg wet	77%	42 - 120	11J3932	10/18/11 15:08
Indeno (1,2,3-cd) pyrene	1.67	1.34	mg/kg wet	80%	41 - 121	11J3932	10/18/11 15:08
Naphthalene	1.67	1.22	mg/kg wet	73%	32 - 120	11J3932	10/18/11 15:08
Phenanthrene	1.67	1.31	mg/kg wet	79%	45 - 120	11J3932	10/18/11 15:08
Pyrene	1.67	1.32	mg/kg wet	79%	43 - 120	11J3932	10/18/11 15:08
1-Methylnaphthalene	1.67	0.957	mg/kg wet	57%	32 - 120	11J3932	10/18/11 15:08
2-Methylnaphthalene	1.67	1.14	mg/kg wet	68%	28 - 120	11J3932	10/18/11 15:08





EEG - Small Business Group, Inc. (2449) Client

10179 Highway 78

Ladson, SC 29456 Tom McElwee

Attn

Work Order:

NUJ2184

Project Name:

Laurel Bay Housing Project

Project Number:

[none]

Received:

10/15/11 08:40

PROJECT QUALITY CONTROL DATA

LCS - Cont.

Analyte	Known Val.	Analyzed Val	0	Units	% Rec.	Target Range	Datak	Analyzed Date/Time
	Kilowii vai.	Allatyzeu vat	Q	Onus	76 RCC.	rearge	Batch	Dato Time
Polyaromatic Hydrocarbons by I	EPA 8270D							_
11J3932-B\$1								
Surrogate: Terphenyl-d14	1.67	1,41			85%	18 - 120	11J3932	10/18/11 15:08
Surrogate: 2-Fluorobiphenyl	1.67	1.07			64%	14 - 120	11J3932	10/18/11 15:08
Surrogate: Nitrobenzene-d5	1.67	0,980			59%	17 - 120	11J3932	10/18/11 15:08



10179 Highway 78 Ladson, SC 29456

Tom McElwee

Attn

Work Order:

NUJ2184

Project Name:

Laurel Bay Housing Project

Project Number: [none]

Received:

10/15/11 08:40

PROJECT QUALITY CONTROL DATA

LCS Dup -

					Spike		Target		-1 .		Sample	Analyzed
Analyte	Orig, Val.	Duplicate	Q	Units	Conc	% Rec.	Range	RPD	Limit	Batch	Duplicated	Date/Time
Volatile Organic Compounds by EP	A Method 8	3260B					•	-				,
11J5081-BSD1												*
Benzene	•	48.4		ug/kg	50.0	97%	75 - 127	1	50	11J5081		10/21/11 11:52
Ethylbenzene		50.2		ug/kg	50.0	100%	80 - 134	2	50	11 J5 081		10/21/11 11:52
Naphthalene		42.3		ug/kg	50.0	85%	69 - 150	2	50	11J5081		10/21/11 11:52
Toluene	• :	50.7		ug/kg	. 50.0	101%	80 - 132	, ₁	50 -	11J5081	•	10/21/11 11:52
Xylenes, total	•	154	. 1	ug/kg	150	103%	80 - 137	3	50	11J5081	• • •	10/21/11 11:52
Surrogate: 1,2-Dichloroethane-d4		55,2		ug/kg	50.0	110%	70 - 130			11J5081		10/21/11 11:52
Surrogate: Dibromofluoromethane	•	54.6		ug/kg	50.0	109%	70 - 130			11J5081		10/21/11 11:52
Surrogate: Toluene-d8		50.4		ug/kg	50.0	101%	70 - 130			11J5081		10/21/11 11:52
Surrogate: 4-Bromofluorobenzene		45.8		ug/kg	50.0	92%	70 - 130			11J5081		10/21/11 11:52
11J5196-BSD1												
Benzene		45.1		ug/kg	50.0	90%	75 - 127	2	50	11J5196		10/22/11 12:52
Ethylbenzene		47.7		ug/kg	50.0	95%	80 - 134	3	50	11J5196		10/22/11 12:52
Naphthalene		47.3		ug/kg	50.0	95%	69 - 150	3	50	11J5196		10/22/11 12:52
Toluene		47.6		ug/kg	50.0	95%	80 - 132	4	50	11 J 5196		10/22/11 12:52
Xylenes, total		144		ug/kg	150	96%	80 - 137	3	50	11J5196		10/22/11 12:52
Surrogate: 1,2-Dichloroethane-d4		53.2		ug/kg	50.0	106%	70 - 130			11J5196		10/22/11 12:52
Surrogate: Dibromofluoromethane		52.8		ug/kg	50.0	106%	70 - 130			11J5196		10/22/11 12:52
Surrogate: Toluene-d8		49.7		ug/kg	50.0	99%	70 - 130			11J5196		10/22/11 12:52
Surrogate: 4-Bromosluorobenzene		47.8		ug/kg	50.0	96%	70 - 130			11J5196		10/22/11 12:52



10179 Highway 78 Ladson, SC 29456

Tom McElwee

Attn

Work Order:

NUJ2184

Project Name:

Laurel Bay Housing Project

Project Number: Received: [none]

10/15/11 08:40

PROJECT QUALITY CONTROL DATA Matrix Spike

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by E	PA Method 826)B				'	•	,	<u></u>	
11J5081-MS1										
Benzene	ND	0.0638		mg/kg dry	0.0602	106%	31 - 143	11J5081	NUJ2184-02	10/21/11 21:58
Ethylbenzene	ND	0.0749		mg/kg dry	0.0602	125%	23 - 161	11J5081	NUJ2184-02	10/21/11 21:58
Toluene	ND	0.0792		mg/kg dry	0.0602	132%	30 - 155	11 J 5081	NUJ2184-02	10/21/11 21:58
Xylenes, total	ND	0.215		mg/kg dry	0.181	119%	25 - 162	1135081	NUJ2184-02	10/21/11 21:58
Surrogate: 1,2-Dichloroethane-d4		51.4		ug/kg	50.0	103%	70 - 130	11J5081	NUJ2184-02	10/21/11 21:58
Surrogate: Dibromofluoromethane		52.4		ug/kg	50.0	105%	70 - 130	11J5081	NUJ2184-02	10/21/11 21:58
Surrogate: Toluene-d8		57.2		ug/kg	50.0	114%	70 - 130	11J5081	NUJ2184-02	10/21/11 21:58
Surrogate: 4-Bromofluorobenzene		69.2	ZX	ug/kg	50.0	138%	70 - 130	11J5081	NUJ2184-02	10/21/11 21:58
11J5196-MS1						-				
Benzene	ND	3.21		mg/kg dry	2.73	118%	31 - 143	11J5196	NUJ2184-01RE	10/22/11 22:33
Ethylbenzene	ND	3.32	•	mg/kg dry	2.73	122%	23 - 161	11J5196	NUJ2184-01RE	10/22/11 22:33
Naphthalene	1.04	4.06	•	mg/kg dry	2.73	111%	10 - 176	1175196	NUJ2184-01RE	10/22/11 22:33
Toluene	ND	3.28		mg/kg dry	2,73	120%	30 - 155	11J5196	NUJ2184-01RE	10/22/11 22:33
Xylenes, total	ND	9.92		mg/kg dry	8.19	121%	25 - 162	11J5196	1 NUJ2184-01RE	10/22/11 22;33
Surrogate: 1,2-Dichloroethane-d4		53.3		ug/kg	50.0	107%	70 - 130	11J5196	1 NUJ2184-01RE	10/22/11 22:33
Surrogate: Dibromofluoromethane		52.7		ug/kg	50.0	105%	70 - 130	11J5196	l NUJ2184-01RE	10/22/11 22:33
Surrogate: Toluene-d8		49.8		ug/kg	50.0	100%	70 - 130	11J51 96	1 NUJ2184-01RE	10/22/11 22:33
Surrogate: 4-Bromofluorobenzene		47.4		ug/kg	50.0	95%	70 - 130	11J5196	1 NUJ2184-01RE 1	10/22/11 22:33
Polyaromatic Hydrocarbons by EP	'A 8270D									•
11J3932-MS1										
Acenaphthene	ND	0.990		mg/kg dry	1.86	53%	19 - 120	11J3932	NUJ1811-01	10/18/11 15:29
Acenaphthylene	ND	0.980		mg/kg dry	1.86	53%	25 - 120	11J3932	NUJ1811-01	10/18/11 15:29
Anthracene	ND	1.15		mg/kg dry	1.86	62%	28 - 125	11J3932	NUJ1811-01	10/18/11 15:29
Benzo (a) anthracene	0.0707	1.19		mg/kg dry	1.86	60%	23 ~ 120	11J3932	NUJ1811-01	10/18/11 15:29
Benzo (a) pyrene	0.0925	1.24		mg/kg dry	1.86	62%	15 - 128	11 J39 32	NUJ1811-01	10/18/11 15:29
Benzo (b) fluoranthene	0.0944	1.14		mg/kg dry	1.86	. 56%	12 - 133	11J3932	NUJ1811-01	10/18/11 15:29
Benzo (g,h,i) perylene	0.0751	1.14		mg/kg dry	1.86	57%	22 - 120	11J3932	NUJ1811-01	10/18/11 15:29
Benzo (k) fluoranthene	0.0992	1.21		mg/kg dry	1.86	60%	28 - 120	11J3932	NUJ1811-01	10/18/11 15:29
Chrysene	0,0984	I.21 '		mg/kg dry	1.86	60%	20 - 120	11J3932	NUJ1811-01	10/18/11 15:29
Dibenz (a,h) anthracene	ND	1.12		mg/kg dry	1.86	60%	12 - 128	1133932	NUJ1811-01	10/18/11 15:29
Fluoranthene	0.185	1.31		mg/kg dry	1.86	61%	10 - 143	11 J3932	NUJ1811-01	10/18/11 15:29



10179 Highway 78 Ladson, SC 29456

Tom McElwee

Attn

Work Order:

NUJ2184

Project Name:

Laurel Bay Housing Project

Project Number: [none]

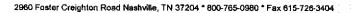
Received:

10/15/11 08:40

PROJECT QUALITY CONTROL DATA

Matrix Spike - Cont.

				F						
Analyte		Orig. Val.	MS Val Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Polyaromatic Hydrocarbons b	y EPA 8	3270D								
11J3932-MS1						. :				1.5
Fluorene		ND	1.09	mg/kg dry	1.86	59%	20 - 120	11J3932	NUJ1811-01	10/18/11 15:29
Indeno (1,2,3-cd) pyrene	•	0.0648	1.14	mg/kg dry	1.86	58%	22 - 121	11J3932	NUJ1811-01	10/18/11 15:29
Naphthalene		ND.	1.09	mg/kg dry	1.86	58%	10 - 120	11J3932	NUJ1811-01	10/18/11 15:29
Phenanthrene		0.0492	1.16	mg/kg dry	1.86	60%	21 - 122	11J3932	NUJ1811-01	10/18/11 15:29
Pyrene		0.141	1.18	mg/kg dry	1.86	. 56%	20 - 123	11J3932	NUJ1811-01	10/18/11 15:29
1-Methylnaphthalene		ND	0.838	mg/kg dry	1.86	45%	10 - 120	11J3932	NUJ1811-01	10/18/11 15:29
2-Methylnaphthalene		ND	0.993	mg/kg dry	1.86	53%	13 - 120	11J3932	NUJ1811-01	10/18/11 15:29
Surrogate: Terphenyl-d14			1.15	mg/kg dry	1.86	62%	18 - 120	11J3932	NUJ1811-01	10/18/11 15:29
Surrogate: 2-Fluorobiphenyl			0.901	mg/kg dry	1.86	48%	14 - 120	11J3932	NUJ1811-01	10/18/11 15:29
Surrogate: Nitrobenzene-d5			0.855	mg/kg dry	1.86	46%	17 - 120	11J3932	NUJ1811-01	10/18/11 15:29





10179 Highway 78 Ladson, SC 29456

Tom McElwee

Attπ

Work Order:

NUJ2184

Project Name:

Laurel Bay Housing Project

Project Number: Received: [none] 10/15/11 08:40

PROJECT QUALITY CONTROL DATA Matrix Spike Dup

				Mattix of	וועם אות	, 						
Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by	EPA Method 8	3260B										
11J5081-MSD1												
Benzene	ND	0.0618	*	mg/kg dry	0 0563	110%	31 - 143	3	50	11J5081	NUJ2184-02	10/21/11 22:3
Ethylbenzene	ND	0.0714		mg/kg dry	0 0563	127%	23 - 161	5	50	11J5081	NUJ2184-02	10/21/11 22:
Toluene .	ND	0.0769	•	mg/kg dry	0.0563	136%	30 - 155	3	50	11J5081	NUJ2184-02	10/21/11 22:
Xylenes, total	ND	0.210		mg/kg dry	0 169	124%	25 - 162	2	50	11J5081	NUJ2184-02	10/21/11 22:
urrogate: 1,2-Dichloroethane-d4		51.7		ug/kg	50.0	103%	70 - 130			11J5081	NUJ2184-02	10/21/11 22:
urrogate: Dibromofluoromethane		52.8		ug/kg	50.0	106%	70 - 130			11J5081	NUJ2184-02	10/21/11 22:
urrogate: Toluene-d8		59.7		ug/kg	500	119%	70 - 130			11J5081	NUJ2184-02	10/21/11 22:
Surrogate: 4-Bromosluorobenzene	•	71.6	ZX	ug/kg	50.0	143%	70 - 130			11J5081	NUJ2184-02	10/21/11 22:
1J5196-MSD1												
Benzene	ND	3.07		mg/kg dry	2.73	112%	31 - 143	5	50	11J5196	NUJ2184-01RE I	10/22/11 23:
Ethylbenzene	ND	3.23		mg/kg dry	2.73	118%	23 - 161	3	50	11J5196	NUJ2184-01RE	10/22/11 23:
Naphthalene	1.04	3.97		mg/kg dry	2.73	107%	10 - 176	2	50	11J5196	NUJ2184-01RE	10/22/11 23:
Toluene	ND	3.25		mg/kg dry	2.73	119%	30 - 155	0.9	50	11J5196	NUJ2184-01RE	10/22/11 23:
Xylenes, total	ND	9.63		mg/kg dry	8.19	118%	25 - 162	3	50	11 J5 196	NUJ2184-01RE	10/22/11 23:
urrogate: 1,2-Dichloroethane-d4		52.0		ug/kg	50.0	104%	70 - 130			11J5196	NUJ2184-01RE	10/22/11 23:
urrogate: Dibroniofluoromethane		51.9		ug/kg	50.0	104%	70 - 130			11J5196	NUJ2184-01RE	10/22/11 23:
urrogate: Toluene-d8		50.5		ug/kg	50.0	101%	70 - 130			11 J 51 9 6	I NUJ2184-01RE	10/22/11 23:
urrogate: 4-Bromofluorobenzene		47.0		ug/kg	50.0	94%	70 - 130			11J5196	NUJ2184-01RE	10/22/11 23:
	ED 1 0050D										1	
'olyaromatic Hydrocarbons by	EPA 8270D											
1J3932-MSD1 Acenaphthene	ND	1.24			1.87	66%	19 - 120	22	50 50	11J3932	MT11011 A1	10/10/11 15
Acenaphthylene	ND	1.24		mg/kg dry	1.87	65%	25 - 120		50		NUJ1811-01 NUJ1811-01	10/18/11 15:
Anthracene	ИD	1.46		mg/kg dry	1.87	78%	28 - 125	22		11J3932		10/18/11 15:
				mg/kg dry				24	49	11J3932	NUJ1811-01	10/18/11 15:
Benzo (a) anthracene	0.0707	1.54		mg/kg dry	1.87 1.87	79%	23 - 120	26	50 60	[1J3932	NUJ1811-01	10/18/11 15:
Benzo (a) pyrene	0.0925	1.58	*	mg/kg dry		79%	15 - 128	24	50	11J3932	NUJ1811-01	10/18/11 15
Benzo (b) fluoranthene	0,0944	1.46		mg/kg dry	1.87	73%	12 - 133	25	50	11J3932	NUJ1811-01	10/18/11 15:
Benzo (g,h,i) perylene	0.0751	1.44		mg/kg dry	1.87	73%	22 - 120	23	50	11J3932	NUJ1811-01	10/18/11 15:
Benzo (k) fluoranthene	0.0992	1.59	:	mg/kg dry	1.87	80%	28 - 120	27	45	11J3932	NUJ1811-01	10/18/11 15
Chrysene	0.0984	1.48		mg/kg dry	1.87	74%	20 - 120	21	49	11J3932	NUJ1811-01	10/18/11 15:
Dibenz (a,h) anthracene	ND	1.41		mg/kg dry	1.87	76%	12 - 128	23	50	11J3932	NUJ1811-01	10/18/11 15
Fluoranthene	0.185	1.67		mg/kg dry	1.87	79%	10 - 143	24 .	50	11J3932	NUJ1811-01	10/18/11 15:
Fluorene	ND	1.39	- '	mg/kg dry	1.87	75%	20 - 120	24	50	11J3932	NUJ1811-01	10/18/11 15:
Indeno (1,2,3-cd) pyrene	0.0648	1.44		mg/kg dry	1.87	73%	22 - 121	23	50	11J3932	NUJ1811-01	10/18/11 15:
Naphthalene •	ND	1.29		mg/kg dry	1.87	69%	10 - 120	17	50	11J3932	NUJ1811-01	10/18/11 15:
· ·												



10179 Highway 78 Ladson, SC 29456

Tom McElwee

Attn

Work Order:

NUJ2184

[none]

Project Name:

Laurel Bay Housing Project

Project Number: Received:

10/15/11 08:40

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample : Duplicated :	Analyzed Date/Time
Polyaromatic Hydrocarbons by	y EPA 8270D			• ;		_	1.1					
11J3932-MSD1												
Phenanthrene	0.0492	1.46		mg/kg dry	1.87	75%	21 - 122	23	50	11J3932	NUJ1811-01	10/18/11 15:51
Ругепе	0.141	1.55		mg/kg dry	1.87	75%	20 - 123	27	50	11J3932	NUJ1811-01	10/18/11 15:51
I-Methylnaphthalene	ND	1.00		mg/kg dry	1.87	54%	10 - 120	18	50	11J3932	NUJ1811-01	10/18/11 15:51
2-Methylnaphthalene	ND	1.18		mg/kg dry	1.87	63%	13 - 120	18	50	11J3932	NUJ1811-01	10/18/11 15:51
Surrogate: Terphenyl-dl4		1.53	-	mg/kg dry	1.87	82%	18 - 120		1	11J3932	NUJ1811-01	10/18/11 15:51
Surrogate: 2-Fluorobiphenyl		1.09		mg/kg dry	1.87	58%	14 - 120			11J3932	NUJ1811-01	10/18/11 15:51
Surrogate: Nitrobenzene-d5		0.993		mg/kg dry	1.87	53%	17 - 120			11J3932	NUJ1811-01	10/18/11 15:51



THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client EEG - Small Business Group, Inc. (2449)

10179 Highway 78 Ladson, SC 29456

Tom McElwee

Work Order:

NUJ2184

Project Name:

Laurel Bay Housing Project

Project Number:

Received:

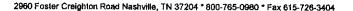
[none] 10/15/11 08:40

CERTIFICATION SUMMARY

TestAmerica Nashville

Attn

Method	Matrix ·	АІНА	Nelac	South Carolina	
SW846 8260B	Soil	N/A	Х	X	
SW846 8270D	Soil		X	X	
SW-846	Soil				





10179 Highway 78 Ladson, SC 29456

Tom McEiwee

Attn

J ZX

ND

Work Order:

NUJ2184 -

[none]

Project Name:

Laurel Bay Housing Project

Project Number:

Received:

10/15/11 08:40

DATA QUALIFIERS AND DEFINITIONS

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

Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Not detected at the reporting limit (or method detection limit if shown)

METHOD MODIFICATION NOTES

NUJ2184

10/31/11 23:59

· · · · · · · · · · · · · · · · · · ·	Client Name/Account i	#: <u>EEG - SBG # :</u>		ater Cr le, TN 3	eighto 7204	n			To	oll Fre	e E	Section (:	*				. 4	10 · · · · · · · · · · · · · · · · · · ·		••	He nekar Gelogney	ston bur	7		•
		: 10179 Highwa											·•								go- ka	Printe 14c.	सद्धावह	.9	Yes	
	City/State/Zip	: Ladson, SC 29	458								·		•• • ••												Vag.	
	Project Manager	Tom McElwee	email: mce	wee@e	eginc.n	el				··						3	•	: :								
	reseptions Number	: 843.412.2097					Fa	ıx No	. 5	24	ξ.	87	× /				:		16	2=3	-2		•			*
	Sampler Name: (Print		stt,	86	, et a				·· <u>_</u>	27.	<u> </u>		7, 8	70	1	بذ	1 47 0						100	·		
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ATTACHMENT A



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EF	PAID No. Ma	anifest Doc N	No.	2. Page 1	of					
NON-HAZARDOUS MANIFEST					1						
3. Generator's Mailing Address:	Ger	nerator's Site Address (If d	ifferent than ma	ailing):	A. Manife	st Number			(delta)		
MCAS, BEAUFORT					W	MNA	00316	5818			
LAUREL BAY HOUSING						B. State	Generator's	Contract Contract	107		
BEAUFORT, SC 29907											
THE RESIDENCE OF THE PARTY OF T	28-6461			S. Brath							
5. Transporter 1 Company Name		6. US EPA II	Number		15/2015		SI SHOULD BE				
EEG, INC.					C. State Transporter's ID						
				D. Transporter's Phone 843-879-0411							
7. Transporter 2 Company Name		8. US EPA II	Number		C Chata T						
						ransporter's I orter's Phone		A SERVICE OF	ita da		
9. Designated Facility Name and Site	Address	10. US EPA	ID Number		r. Hallspe	orter's Phone			SCHOOL S		
HICKORY HILL LANDFILL					G. State F	acility ID	fla spinor				
2621 LOW COUNTRY ROAD					Contract of the Contract of th	acility Phone	8/13-0	987-464	2		
RIDGELAND, SC 29936				W. Daniel	TI, State I	acility i florie	84/14/2	707 404			
11. Description of Waste Materials				ntainers	13. Total	14. Unit	1. N	lisc. Commer	nts		
a. HEATING OIL TANKS FILLED	WITH SAND		No.	Туре	Quantity	Wt./Vol.					
a											
WM Prof	ile # 102655SC										
b											
WM Profile #											
c.							THE RESERVE				
WM Profile #			Front View						SVIE		
d.							A Section		3 (1)		
							操作				
WM Profile #				A COLUMN		To the state of	Apple Sen		No.		
J. Additional Descriptions for Mater	ials Listed Above		K. Dispos	al Location							
			Cell				Level	Clycul	Role.		
			Grid				2	Lay 1	A CONTRACTOR		
15. Special Handling Instructions and USTS FROM		The state of the s	3)3	45 K	ACOR	1					
	3/2/9	BASAMI	4)	283	BiRG	h					
Purchase Order #	4)411	EMERGENCY CO	THE RESERVE AND ADDRESS.	A STATE OF THE PARTY OF THE PAR	10166			STATE OF STREET			
16. GENERATOR'S CERTIFICATE:		ENIENCENCI CO	TIACIT FING	ZIVE IVO			Tradition Law				
hereby certify that the above-describ	ned materials are not h	azzardous wastes as defin	od by CEP P	ort 261 or :	ny applicable	o stato law b	ava boon fu	lly and			
accurately described, classified and pa							ave been tu	ily and			
Printed Name / 1	, 1, ,	Signature "On beha		5 /	11 0		Month	Day	Yea		
limolny	WhAles	Ju	nothy	, W	nake	1	10	18	11		
17. Transporter 1 Acknowledgement	of Receipt of Materials	s	1		1						
Printed Name	2 11 6	Signature	DU		1		Month	Day	Yea		
Jam Es 1	20 Idwin	James	Dolld	les			110	18	14		
18. Transporter 2 Acknowledgement	of Receipt of Materials				1 -						
Printed Name		Signature					Month	Day	Yea		
19. Certificate of Final Treatment/Dis	posal				THE STATE OF						
certify, on behalf of the above listed			edge, the ab	ove-descri	bed waste w	as managed	n complian	ce with all			
applicable laws, regulations, permits a											
20. Facility Owner or Operator: Certi	fication of receipt of n		overed by th	is manifest							
Printed Name		Signature			1.		Month	Day	Yea		
10 NI (0)	Held	10n	t) Lu	1 L		1/0	18	11		
AND THE PROPERTY OF THE PARTY O	Company of the Compan										

White-TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Pink- FACILITY USE ONLY

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

Yellow- GENERATOR #1 COPY

Appendix C Laboratory Analytical Report - Groundwater



Volatile Organic Compounds by GC/MS

Client: AECOM - Resolution Consultants

Description: BEALB283TW01WG20170303

Laboratory ID: SC04007-007

Matrix: Aqueous

36403

Date Sampled: 03/03/2017 1430 Date Received: 03/04/2017

5030B

Run Prep Method Analytical Method Dilution Analysis Date Analyst **Prep Date** Batch

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
Benzene	71-43-2	8260B	0.80	U	1.0	0.80	0.40	ug/L	1
Ethylbenzene	100-41-4	8260B	2.4		1.0	0.80	0.40	ug/L	1
Naphthalene	91-20-3	8260B	9.3		1.0	0.80	0.40	ug/L	1
Toluene	108-88-3	8260B	0.80	U	1.0	0.80	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	0.80	U	1.0	0.80	0.40	ug/L	1

03/07/2017 1637 PMV

Surrogate	Run 1 A Q % Recovery	cceptance Limits	
Bromofluorobenzene	111	85-114	
Dibromofluoromethane	108	80-119	
1,2-Dichloroethane-d4	101	81-118	
Toluene-d8	99	89-112	

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 L = LCS/LCSD failure

ND = Not detected at or above the MDL Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

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

Client: AECOM - Resolution Consultants

Laboratory ID: SC04007-007

Description: BEALB283TW01WG20170303

Date Sampled: 03/03/2017 1430 Date Received: 03/04/2017

Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	3520C	8270D	1	03/15/2017 1556 RBH	03/07/2017 1304	36374

	CAS	Analytical							
Parameter	Number	Method	Result	Q	LOQ	LOD	DL	Units Rur	n
Benzo(a)anthracene	56-55-3	8270D	0.10	U	0.20	0.10	0.040	ug/L 1	
Benzo(b)fluoranthene	205-99-2	8270D	0.10	U	0.20	0.10	0.040	ug/L 1	
Benzo(k)fluoranthene	207-08-9	8270D	0.10	U	0.20	0.10	0.040	ug/L 1	
Chrysene	218-01-9	8270D	0.10	U	0.20	0.10	0.040	ug/L 1	
Dibenzo(a,h)anthracene	53-70-3	8270D	0.10	U	0.20	0.10	0.040	ug/L 1	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	
Nitrobenzene-d5		65	44-120	
2-Fluorobiphenyl		60	44-119	
Terphenyl-d14		79	50-134	

PQL = Practical quantitation limit ND = Not detected at or above the MDL B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range P = The RPD between two GC columns exceeds 40%

H = Out of holding time

Q = Surrogate failure N = Recovery is out of criteria L = LCS/LCSD failure

 $J = Estimated result < PQL and <math>\geq MDL$ 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





August 24, 2016

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

RE:

Laurel Bay Underground Tank Assessment Reports

Dear Mr. Drawdy:

The South Carolina Department of Health and Environmental Control (the Department) received the Underground Storage Tanks (USTs) Assessment Reports for the addresses listed in the attachment. 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 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 these sites.

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,

LIPT

Laurel Petrus, Environmental Engineer Associate RCRA Federal Facilities Section

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, August 24, 2016
Subject: IGWA, Laurel Bay Underground Tank Assessment Reports

Draft Final Initial Groundwater Investigation Report for (41 addresses)

122 Banyan	905 Barracuda	
159 Cypress Tank 2	921 Barracuda	
221 Cypress	935 Albacore	
283 Birch Tank 2	946 Albacore	
328 Ash Tank 2	1037 Iris	
346 Ash	1039 Iris	
359 Aspen	1110 Iris	*** **********************************
370 Aspen	1134 Iris	1000
377 Aspen	1143 Iris	
409 Elderberry	1202 Cardinal	
486 Laurel Bay	1212 Cardinal	
515 Laurel Bay	1222 Cardinal	
542 Laurel Bay	1224 Cardinal	
593 Aster	1226 Dove	
630 Dahlia	1236 Dove	X.5.02
693 Camellia	1245 Dove	
723 Blue Bell	1247 Dove	
774 Althea	1274 Albatross	× ×
860 Dolphin	1319 Albatross	
873 Cobia	1337 Albatross	· · · · · · · · · · · · · · · · · · ·
883 Cobia		

BOARD: --Paul C. Aughtry, III Chairman Edwin H. Cooper, III Vice Chairman

Steven G. Kisner

Secretary

Henry C. Scott

M. David Mitchell, MD

Glenn A. McCall

BOARD:

Coleman F. Buckhouse, MD

C. Earl Hunter, Commissioner Promoting and protecting the health of the public and the environment

14 August 2008

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

Re:

MCAS – Laurel Bay Housing – 283 Birch

Site ID # 04001

UST Closure Reports received 31 January 2008

No Further Action Beaufort County

Dear Mr. Broadfoot:

The Department has reviewed the referenced closure report. Based upon the geotechnical data in the referenced report, the soil samples are below risk based screening levels.

As the Department did not specifically request this data, and the work conducted at this site received no prior review by the Department, we cannot provide any comments on the completeness of the work performed or the overall environmental conditions of the site. Based on the information and analytical data submitted, there is no evidence to indicate that a violation of the Pollution Control Act has occurred. Consequently, no investigation will be required at this time. Please note, this statement pertains only to the data submitted 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 803-898-3553 (office phone), 803-898-2893 (fax) or bishopma@dhec.sc.gov.

Sincerely,

Michael Bishop, (Hydrogeologist

Groundwater Quality Section

Bureau of Water

B. Thomas Knight, Manager 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 (pdf)



July 27, 2017

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

RE:

Draft Final Initial Groundwater Investigation Report, February and March 2017

Dear Mr. Drawdy:

The South Carolina Department of Health and Environmental Control (DHEC) received groundwater data from temporary monitoring well installations in the Draft Final Groundwater Investigation Report, Laurel Bay Military Housing Area for the fifty two (52) addresses shown in the attachment. 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 DHEC's request, groundwater samples were collected from the attached referenced addresses. DHEC 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 groundwater monitoring wells should be installed at the three (3) stated addresses. For the remaining forty nine (49) addresses, there is no indication of contamination on the property and therefore no further investigation is required at this time.

Please note that DHEC'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, DHEC 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,

Lal Rt

Cc: Russell Berry, EQC Region 8

Bureau of Land and Waste Management

Shawn Dolan, Resolution Consultants

Bryan Beck, NAVFAC MIDLANT

Laurel Petrus, Environmental Engineer Associate

Attachment to:

Petrus to Drawdy

Dated July 27, 2017

Draft Final Initial Groundwater Investigation Report for (52 addresses)

Permanent Well Installation recommedation (3 Addresses):

- 254 Beech Street (110 ug/L)
- 268 Beech Street (28 ug/L) 0
- 774 Althea Street (35 ug/L)

No Further Action recommendation (49 addresses):

- 113 Birch Drive
- 121 Banyan Drive
- 122 Banyan Drive
- 159 Cypress Street 0
- 221 Cypress Street 0
- 274 Birch Drive 0
- 279 Birch Drive 0
- 283 Birch Drive 0
- 328 Ash Street
- 346 Ash Street
- 359 Aspen Street
- 370 Aspen Street 0
- 377 Aspen Street 0
- 409 Elderberry Drive 0
- 465 Dogwood Drive
- 0 480 Laurel Bay Boulevard
- 0 486 Laurel Bay Boulevard
- 0 515 Laurel Bay Boulevard O
- 542 Laurel Bay Boulevard
- 593 Aster Street
- 630 Dahlia Drive
- 641 Dahlia Drive
- 693 Camelia Drive 0
- 723 Bluebell Lane 0
- 860 Dolphin Street 0
- 873 Cobia Drive 0
- 883 Cobia Drive 0
- 905 Barracuda Drive 0
- 921 Barracuda Drive
- 935 Albacore Street 0
- 946 Albacore Street 0
- 1037 Iris Lane 0
- 1039 Iris Lane 0
- 1110 Iris Lane 0
- 1134 Iris Lane 0
- 1143 Iris Lane 0
- 1177 Bobwhite Drive
- 1202 Cardinal Lane 1212 Cardinal Lane
- 0 1222 Cardinal Lane
- 1224 Cardinal Lane
- 1226 Dove Lane
- 1236 Dove Lane
- 1245 Dove Lane
- 1247 Dove Lane
- 0 1274 Albatross Drive
- 1319 Albatross Drive 0
- 1337 Albatross Drive 0
- 1346 Cardinal Lane