SUMMARY REPORT 192 FOXGLOVE STREET (FORMERLY 1025 FOXGLOVE STREET) LAUREL BAY MILITARY HOUSING AREA MARINE CORPS AIR STATION BEAUFORT BEAUFORT, SC

> Revision: 0 Prepared for:

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

and



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

JUNE 2021

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Prepared by:



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



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- Appendix B UST Assesment Report
- Appendix C Regulatory Correspondence



List of Acronyms

bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
СТО	Contract Task Order
COPC	constituents of potential concern
IDIQ	Indefinite Delivery, Indefinite Quantity
IGWA	Initial Groundwater Assessment
JV	Joint Venture
LBMH	Laurel Bay Military Housing
MCAS	Marine Corps Air Station
NAVFAC Mid-Lant	Naval Facilities Engineering Command Mid-Atlantic
NFA	No Further Action
PAH	polynuclear aromatic hydrocarbon
QAPP	Quality Assurance Program Plan
RBSL	risk-based screening level
SCDHEC	South Carolina Department of Health and Environmental Control
Site	LBMH area at MCAS Beaufort, South Carolina
UST	underground storage tank
VISL	vapor intrusion screening level



1.0 INTRODUCTION

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

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

This report summarizes the results the environmental investigation activities associated with the storage of home heating oil and the potential release of petroleum constituents at the referenced property. Based on the results of the investigation, a No Further Action (NFA) determination has been made by the South Carolina Department of Health and Environmental Control (SCDHEC) for 192 Foxglove Street (Formerly 1025 Foxglove Street). 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 OAPP (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 192 Foxglove Street (Formerly 1025 Foxglove Street). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 1025 Foxglove Street* (MCAS Beaufort, 2008). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On July 16, 2007, a single 280 gallon heating oil UST was removed from the front landscaped area adjacent to the porch area at 192 Foxglove Street (Formerly 1025 Foxglove Street). The former UST location is indicated on the figures of the UST Assessment Report (Appendix B). The UST was removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of the UST was 5'8" bgs and a single soil sample was collected from that



depth. An additional soil sample was collected from the side of the excavation at a depth of 3'8" bgs. The samples were collected from the fill port side of the former UST to represent a worst case scenario.

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

2.2 Soil Analytical Results

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

The soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form (Appendix B). The results of the soil sampling at the former UST location were used by MCAS Beaufort, in consultation with SCDHEC, to determine a path forward (i.e., additional sampling or NFA) for the property. The soil results collected from 192 Foxglove Street (Formerly 1025 Foxglove Street) were less than the SCDHEC RBSLs, which indicated the subsurface was not impacted by COPCs associated with the former UST at concentrations that presented a potential risk to human health and the environment.

3.0 PROPERTY STATUS

Based on the analytical results for soil, SCDHEC made the determination that NFA was required for 192 Foxglove Street (Formerly 1025 Foxglove Street). This NFA determination was obtained in a letter dated August 14, 2008. SCDHEC's NFA letter is provided in Appendix C.

4.0 REFERENCES

Marine Corps Air Station Beaufort, 2008. South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 1025 Foxglove Street, Laurel Bay Military Housing Area, January 2008.



- South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2013. *Quality Assurance Program Plan for the Underground Storage Tank Management* Division, *Revision 2.0*, April 2013.
- South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2015. *Quality Assurance Program Plan for the Underground Storage Tank Management* Division, *Revision 3.0*, May 2015.
- South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2016. *Quality Assurance Program Plan for the Underground Storage Tank Management* Division, *Revision 3.1*, February 2016.
- South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2017. *R.61-92, Part 280, Underground Storage Tank Control Regulations*, March 2017.
- South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2018. Underground Storage Tank Assessment Instructions for Permanent Closure and Change-In-Service, March 2018.

Table



Table 1Laboratory Analytical Results - Soil192 Foxglove Street (Formerly 1025 Foxglove Street)Laurel Bay Military Housing AreaMarine Corps Air Station BeaufortBeaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Results Samples Collected 07/16/07			
		1025 Foxglove Bottom 01	1025 Foxglove Side 02		
Volatile Organic Compounds Analyze	d by EPA Method 8260B (mg/kg)				
Benzene	0.003	0.000152	ND		
Ethylbenzene	1.15	ND	ND		
Naphthalene	0.036	ND	ND		
Toluene	0.627	0.000606	ND		
Xylenes, Total	13.01	ND	ND		
Semivolatile Organic Compounds Ana	alyzed by EPA Method 8270D (mg/kg)			
Benzo(a)anthracene	0.66	ND	ND		
Benzo(b)fluoranthene	0.66	ND	ND		
Benzo(k)fluoranthene	0.66	ND	ND		
Chrysene	0.66	ND	ND		
Dibenz(a,h)anthracene	0.66	ND	ND		

Notes:

⁽¹⁾ South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 1.0 and 1.1 (SCDHEC, May 2001 and SCDHEC, February 2011) and the Underground Storage Tank Assessment Guidelines (SCDHEC, February 2006).

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

mg/kg - milligram per kilogram

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

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

Appendix A Multi-Media Selection Process for LBMH





Appendix A - Multi-Media Selection Process for LBMH

Appendix B UST Assessment Report



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

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

•

I. OWNERSHIP OF UST (S)
Beaufort Military Complex FAMILY. Housing
1510 LAUREL BAY BRUD. Mailing Address
Beaufort SC 29906
843379-3305Kyle BROAD FOOTArea CodeTelephone NumberContact Person

II. SITE IDENTIFICATION AND LOCATION

10

Permit I.D. # ACTUS LEND LEASE CONST. Facility Name or Company Site Identifier	ruction
1025 FOXGLOVE Street Address or State Road (as applicable)	•
Beaufort, SC 29906	Beau fort
	County

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Attachment 2

III. INSURANCE INFORMATION

Insurance Statement

The petroleum release reported to DHEC on monies to pay for appropriate site rehabilitation activity fund, written confirmation of the existence or non-existence section must be completed.	ν/A at Permit ID # <u>may</u> qualify to receive state ties. Before participation is allowed in the State Clean-up ence of an environmental insurance policy is required. <u>This</u>
Is there now, or has there ever been an insurance UST release? YES NO (check one	e policy or other financial mechanism that covers this
If you answered YES to the above quest	on, 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.
. Ai	nd
I do/do not (circle one) wish to p	articipate in the Superb Program.
IV. CERTIFICATION (To be signed)	by the UST owner/operator.)
I certify that I have personally examined and am fami attached documents; and that based on my inquiry of information, I believe that the submitted information	liar with the information submitted in this and all those individuals responsible for obtaining this 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	
in gradie Commissionea oulside Sol	lin Carolina

		" ~~					
n de la com Nome		Tank 1	Tanl	Tank 3	Tank 4	Tank 5	Tank 6
A.	Product(ex. Gas, Kerosene)	#Z DIESE	2				
B.	Capacity(ex. 1k, 2k)	358g.					
С.	Age						
D.	Construction Material(ex. Steel, FRP)	Steel					
E.	Month/Year of Last Use						
F.	Depth (ft.) To Base of Tank	18"					
G.	Spill Prevention Equipment Y/N	N					
H.	Overfill Prevention Equipment Y/N	N					
I.	Method of Closure Removed Filled	Reinaut					
J.	Date Tanks Removed/Filled	ICANOR					
K.	Visible Corrosion or Pitting Y/N	7-16-07					
L.	Visible Holes Y/N	N					
·		Y					

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

Recycling - Scrap Steel

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

Republic BROADhurst LAnd Soludification + Subtitle D LAnd 1

O. If any corrosion, pitting, or holes were observed, describe the location and extent for each UST <u>IANK HAD PRENIXUSLY BEEN WT OPEN AND FILLED WSAND</u>. EXCANATION APPEARED TO BE CLEAN.

VI. PIPII INFORMATION

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

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

Fill pipe and Neut pipe were mildly correded

VII. BRIEF SITE DESCRIPTION AND HISTORY

Home HEATING Oil TANK - RESIDENTIAL 16

VIII. SITE CON IONS

		· · · · · · · · · · · · · · · · · · ·	-	•	ni Li se	Yes	No	Unk
A	. Were any petroleum- excavation, soil boring If yes, indicate depth a	stained or contaminat gs, trenches, or monite and location on the sit	ed soils found oring wells? e map.	l in the U	JST		+	4
в	Were any petroleum of trenches, or monitoring If yes, indicate location mild, etc.)	odors detected in the e g wells? n on site map and des	excavation, so	il boring r (strong,	S,		7	
C.	Was water present in t If yes, how far below la	he UST excavation, s and surface (indicate)	oil borings, o location and c	r trenche lepth)?	s?		7	
D.	Did contaminated soils If yes, indicate the stoc Name of DHEC represe	remain stockpiled on kpile location on the s entative authorizing so	site after clos site map. oil removal:	sure?			7	
Ē.	Was a petroleum sheen or boring waters? If yes, indicate location	or free product detect and thickness.	ted on any ex	cavation			×	

IX. SAM **Z** INFORMATION

Α.

SCDHEC Lab Certification Number DW: 84009002

<u>B.</u>		-		,			
Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
						ECHEVARRY	
1	BOTTOM	5	SAND	68"	7-16-07 1420	A. MANUEL	ND
2	SIDE	5	SAND	44"	1430	A MADECY	ND
3							
4							
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8			<u>_</u> ,,,				
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16							
17							
18							
19							
20							

* = Depth Below the Surrounding Land Surface

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SAMPLING METHODOLO

X:

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.

Method 8260 B Volatile ORGANic Compounds PA Reservative Zer Sodium Bisulfate lea EPA METHON Poly AROMATIC Hydra CARBONS 8270 PRESERVATIVE No

ONE IDEWA1. ONE And Bottom Were Scened from TANK excavation Were C toned AND She pped j.J AN Ed INSU PAT Cooler w ١Č F

XI. RECEPTC

A Are there and later a	Yes	No
1000 feet of the UST system?		
If yes, indicate type of receptor, distance, and direction on site map.		1
B. Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?	 	
If yes, indicate type of well, distance, and direction on site map.		1
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.		V
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.		~
Has contaminated soil been identified at a depth less than 3 feet below land surface in an area that is not capped by asphalt or concrete?		~
If yes, indicate the area of contaminated soil on the site map.		

SUMMARY OF ANALYSIS RESULTS

NIA

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	000					
Benzene		00-2	38-3	SB-4	SB-5	SB-6	SB-7	SB-8
T-1.			<u> </u>					
Toluene								
Ethylbenzene	·		T				-	
Xylenes		<u> </u>	<u> </u>	<u> </u>	<u> </u>		 	╞╸╺╸┤
Naphthalene	 	<u> </u>	<u> </u>	 	<u> </u>	┼╴──	<u> </u>	
Benzo(a)anthracene	<u> </u>			<u> </u>	<u> </u>	+	<u> </u>	
Benzo(b)flouranthene						<u> </u>		
Benzo(k)flouranthene	<u></u>			 		 		
Chrysene		<u> </u>				 	 	
		[
Dibenz(a,h)anthracene								
TPH (EPA 3550)				- <u></u>		<u> </u>	 	

1 o o		1						
	SB-9	SB-10	SB-11	SB-12	SB-13	SB-14	SP 15	CD 16
Benzene				·/			35-15	SB-10
Toluene			<u> </u>	 	+			+
Ethylbenzene				<u> </u>				
Xylenes				 			╂───	
Naphthalene			<u> </u>	<u> </u>			<u> </u>	
Benzo(a)anthracene						<u> </u>	/ 	<u> </u>
Benzo(b)flouranthene		!			[<u> </u>		<u> </u>
Benzo(k)flouranthene								
Chrysene				_		 		
Dibenz(a,h)anthracene				<u></u>				
TPH (EPA 3550)				 				

SUMMARY OF ANAL I SIS RESULTS (cont'd)

NIA

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
Free Product Thickness	None				
Benzene	. 5	<u> </u>			
Toluene	1,000				
Ethylbenzene	700			+	
Xylenes	10,000		<u> </u>		
Total BTEX	N/Ă			<u>-</u>	
МТВЕ	40	[<u> </u>		
Naphthalene	25			-	
Benzo(a)anthracene	10		<u> </u>		
Benzo(b)flouranthene	10				
Benzo(k)flouranthene	10			<u> </u>	
Chrysene	10			 	
Dibenz(a,h)anthracen e	10				
EDB	.05		·		
1,2-DCA	.05				
Lead	Site specific	·			

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· · ·

ANALYTICAL RESULTS

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

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

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<u>TestAmerica</u>

THE LEADER IN ENVIRONMENTAL TESTING

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

Client:	EPG, INC. PO BOX 1096 MT PLEASANT, SC 29465	, , , , , , , , , , , , , , , , , , ,	Work Order: Project: Project Number:	OQG0504 LAUREL BAY EP2362	• . •	Sampled: Received:	07/16/07-07/20/07 07/25/07
A	TOYIN LA CONTRACT		Tiolect Number.	EF 2302			

Attn: JOHN MAHONEY

LABORATORY REPORT

Sample ID: 256 BEECH SIDE 02 - Lab Number: OQG0504-02 - Matrix: Solid/Soil

CAS #	Anaiyte	Result	Q	Units	MDL	PQL	Dil Facto	Analyzed ^r Date/Time	By	Method	Batch
/olatile	Organic Compounds by EPA	Method 820	50 B - C e	ont.	- <u></u>						
1-20-3	Naphthalene	0.466		ug/kg dry	0.195	0.353	1	07/25/07 20:16	JWT	EPA 8260B	7626028
08-88-3	Toluene	0.305	U	ug/kg dry	0.305	0.353	1	07/25/07 20:16	JWT	FPA 8260B	7626020
330-20-7	Xylenes, total	0.183	U	ug/kg dry	0.183	0.353	1	07/25/07 20:16	IWT	EPA 8260B	7626028
urrogate:	1,2-Dichloroethane-d4 (73-137%)	124 %					-	20.10	2.11.1	LI A 8200D	/020020
urrogate:	4-Bromofluorobenzene (59-118%)	100 %									
urrogate:	Dibromofluoromethane (55-145%)	108 %						•			
urrogate:	Toluene-d8 (80-117%)	100 %								•	
'olynucl	ear Aromatic Hydrocarbons	by EPA Met	hod 827	70							
3-32-9	Acenaphthene	87.4	U	ug/kg dry	87.4	197	1	07/30/07 21-58	DEM	EBA POTOC	7007010
)8-96-8	Acenaphthylene	115	υ	ug/kg dry	115	197	- 1	07/30/07 21:59	DEM	EFA 0270C	/02/018
20-12-7	Anthracene	96.5	I	ug/kg drv	62.9	197	Ť	07/20/07 21.58	REM	EPA 8270C	7G27018
5-55-3	Benzo (a) anthracene	21.4	U	ue/ke drv	21.4	107	1	07/30/07 21:38	REM	EPA 8270C	7G27018
15-99-2	Benzo (b) fluoranthene	40.2	T	up/ko dry	20.8	107	,	07/30/07 21:58	REM	EPA 8270C	7G27018
7-08-9	Benzo (k) fluoranthene	31.9	- т	ng/kg dry	20.0	107	1	0//30/07 21:58	KEM	EPA 8270C	7G27018
1-24-2	Benzo (g,h,i) pervlene	20.5	1	ug/ka day	20.0	197	1	07/30/07 21:58	REM	EPA 8270C	7G27018
-32-8	Benzo (a) pyrene	24.3		ug/kg diy	20.5	197	1	07/30/07 21:58	REM	EPA 8270C	7G27018
-12-0	1-Methylnaphthalene	99.0		ug/kg uly	24.3	197	1	07/30/07 21:58	REM	EPA 8270C	7G27018
8-01-9	Chrysene	23.6		ug/kg ury	99.0	197	1	07/30/07 21:58	REM	EPA 8270C	7G27018
-70-3	Dibenz (a h) anthracene	25.0	0	ug/kg ury	23.6	197	1	07/30/07 21:58	REM	EPA 8270C	7G27018
6-44-0	Fluoranthene	23.9	U	ug/kg dry	25.9	197	1	07/30/07 21:58	REM	EPA 8270C	7G27018
-73-7	Fluorene	20.4	0	ug/kg dry	28.4	197	I	07/30/07 21:58	REM	EPA 8270C	7G27018
3-39-5	Indeno (1, 2, 3, cd) purene	77.4	0	ug/kg dry	77.2	197	I	07/30/07 21:58	REM	EPA 8270C	7G27018
-57-6	2-Methylpaphthalene	23.5	υ	ug/kg dry	25.5	197	1	07/30/07 21:58	REM	EPA 8270C	7G27018
-20-3	Naphthalena	84.1	U	ug/kg dry	84.1	197	1	07/30/07 21:58	REM	EPA 8270C	7G27018
.01_8		19.2	U	ug/kg dry	79.2	197	1	07/30/07 21:58	REM	EPA 8270C	7G27018
-01-0 2.00 A	гленанциене	112	I	ug/kg dry	46.5	197	1.	07/30/07 21:58	REM	EPA 8270C	7G27018
-00-0	Fyrene	43.3	I	ug/kg dry	40.1	197	1	07/30/07 21:58	REM	EPA 8270C	7627018
rogate: 2	riuorobiphenyl (24-121%)	65 %									
rogate: N	itrobenzene-d5 (19-111%)	69 %				1					•
rogate: Te	rphenyl-d]4 (44-171%)	125 %									

LABORATORY REPORT

		- CHOLOY B BOY FOM OF - Lab Number: OQG0504-03 - Matrix: Solid/Soll									
4S #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	Ву	Method	Batch
neral (Chemistry Parameters % Solids	95.5	 0	%.	0.100	0 100	 1	07/25/07 16:55			·· <u> </u>
latile (43-2	Organic Compounds by EPA Benzene	Method 8260)B						KKP	EPA 160.3	7G25040
-41-4	Ethylberzene	0,152	1	ug/kg ory	0.132	0.361	1	07/25/07 22:46	JWT	EPA 8260B	7G26028
20.3	Nanhthalana	0.133	U	ug/kg dry	0.153	0.361	1	07/25/07 22:46	JWT	EPA 8260B	7G26028
00 7	Taphtialene	0.199	υ	ug/kg dry	0.199	0.361	1	07/25/07 22:46	JWT	EPA 8260B	7G26028
-00-0	loluene	0.606		ug/kg dry	0.312	0.361	1	07/25/07 22:46	JWT	EPA 8260B	7626028
0-20-7 'ogate: 1,	Xylenes, total 2-Dichloroethane-d4 (73-137%)	0.188 119 %	.: U	ug/kg dry	0.188	0.361	1	07/25/07 22:46	JWT	EPA 8260B	7G26028

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

THE LEADER IN ENVIRONMENTAL TESTING Client: EPG, INC. Work Order: OQG0504 Sampled: 07/16/07-07/20/07 PO BOX 1096 Project: LAUREL BAY Received: 07/25/07 MT PLEASANT, SC 29465 Project Number: EP2362 Attn: JOHN MAHONEY LABORATORY REPORT Sample ID: 1025 FOXGLOVE BOTTOM 01 - Lab Number: OQG0504-03 - Matrix: Solid/Soil Dil Analyzed CAS# Analyte Result Q Units MDL PQL Factor By Method Batch Date/Time volatile Organic Compounds by EPA Method 8260B - Cont. urrogate: 4-Bromofluorobenzene (59-118%) 99 % urrogate: Dibromofluoromethane (55-145%) 109% urrogate: Toluene-d8 (80-117%) 100 % 'olynuclear Aromatic Hydrocarbons by EPA Method 8270 3-32-9 Acenaphthene 77.5 U ug/kg dry 77.5 175 1 07/30/07 22:21 REM EPA 8270C 7G27018 08-96-8 Acenaphthylene 102 υ ug/kg dry 102 175 1 07/30/07 22:21 REM EPA 8270C 7G27018 20-12-7 Anthracene 55.7 U ug/kg dry 55.7 175 1 07/30/07 22:21 REM EPA 8270C 7G27018 6-55-3 Benzo (a) anthracene 18.9 tt ug/kg dry 18.9 175 1 07/30/07 22:21 REM EPA 8270C 7G27018 05-99-2 Benzo (b) fluoranthene 184 U ug/kg dry 18.4 175 1 07/30/07 22:21 REM EPA 8270C 7G27018 07-08-9 Benzo (k) fluoranthene 18.4 D ug/kg dry 18.4 175 1 07/30/07 22:21 REM EPA 8270C 7G27018 91-24-2 Benzo (g,h,i) perylene 18.1 U ug/kg dry 18.1 175 1 07/30/07 22:21 REM EPA 8270C 7G27018 **D-32-8** Benzo (a) pyrene 21.5 IJ ug/kg dry 21.5 175 1 07/30/07 22:21 REM EPA 8270C 7G27018

87.8

20.9

23.0

25.1

68.4

22.6

74.5

70.2

41.2

35.5

175

175

175

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07/30/07 22:21 REM EPA 8270C

7G27018

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

LABORATORY REPORT

Sample ID: 1025 FOXGLOVE SIDE 02 - Lab Number: OQG0504-04 - Matrix: Solid/Soil

:AS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
eneral	Chemistry Parameters			· · · · · ·		<u> </u>					
4	% Solids	96.7	Q	%.	0.100	0.100	1	07/25/07 16:55	RRP	EPA 160 3	7025041
olatile (Organic Compounds by EPA	Method 826)B				-	0.120.07 10.55		LIN 100.5	/023041
-43-2	Benzene	0.135	ີ້ບ	ug/kg dry	0.135	0.368	1	07/25/07 23:03	IWT	EPA 8260B	7626028
0-41-4	Ethylbenzene	0.156	บ	ug/kg dry	0.156	0.368	1	07/25/07 23:03	IWT	EPA 82600	7020028
-20-3	Naphthalene	0.203	ប	ug/kg dry	0.203	0.368	-	07/25/07 23:03	IW/T	EDA 92400	7020020
8-88-3	Toluene	0.318	υ	ug/kg dry	0.318	0.368	1	07/25/07 23:03	INCT	ETA 0200D	7020020
30-20-7	Xylenes, total	0.191	υ	ug/kg dry	0.191	0 368	1	07/25/07 23:03		EFA 020VD	7020028
rrogate:]	,2-Dichloroethane-d4 (73-137%)	125 %		0.0.1		0.000	.	01125101 25,05	J 44 I	CFA 6200D	/020028
rrogate: 4	-Bromofluorobenzene (59-118%)	100 %									•
rrogate: D	Dibromofluoromethane (55-145%)	107 %									
rrogate: T	oluene-d8 (80-117%)	100 %									
olynucle	ar Aromatic Hydrocarbons b	WEPA Meth	od 827	n '				· • •			

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

J-12-0

18-01-9

3-70-3

)6-44-0

5-73-7

)3-39-5

1-57-6

1-20-3

5-01-8

29-00-0

1-Methylnaphthalene

Dibenz (a,h) anthracene

Indeno (1,2,3-cd) pyrene

2-Methylnaphthalene

Chrysene

Fluorene

Fluoranthene

Naphthalene

Phenanthrene

trrogate: 2-Fluorobiphenyl (24-121%)

urrogate: Nitrobenzene-d5 (19-111%)

strogate: Terphenyl-d14 (44-171%)

Рутепе

87.8

20.9

23.0

25.1

68.4

22.6

74.5

70.2

41.2

35.5

65 %

64 %

116%

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U

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U

ug/kg dry

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica

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

Client	EPG, INC. PO BOX 1096 MT PLEASANT, SC 29465	•	Work Order: Project: Project Number:	OQG0504 LAUREL BAY EP2362	Sampled: Received:	07/16/07-07/20/07 07/25/07
Attn:	JOHN MAHONEY	 	· · · · · · · · · · · · · · · · · · ·			·····

LABORATORY REPORT

Sample ID: 1025 FOXGLOVE SIDE 02 - Lab Number: OQG0504-04 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	Ву	Method	Batch
?olynucle	ear Aromatic Hydrocarbor	is by EPA Met	nod 827	70							
3-32-9	Acenaphthene	76.5	U	ug/kg dry	76.5	173	1	07/30/07 22:43	REM	FPA 8270C	7C27019
08-96-8	Acenaphthylene	101	U	ug/kg dry	101	173	1	07/30/07 22:43	REM	EPA 8270C	7627010
20-12-7	Anthracene	55.1	ບ່	ug/kg dry	55.1	173	1	07/30/07 22 43	REM	EPA 8270C	7027010
6-55-3	Benzo (a) anthracene	18.7	υ	ug/kg dry	18.7	173	1	07/30/07 22:43	DEM	EDA 0270C	7027018
05-99-2	Benzo (b) fluoranthene	18.2	ັບ	ug/kg dry	18.2	173	1	07/30/07 22:43	DEM	EFA 02/0C	7027018
07-08-9	Benzo (k) fluoranthene	18.2	υ	ug/kg dry	18.2	173	1	07/30/07 22:43	DEM	EPA 8270C	7027018
91-24-2	Benzo (g,h,i) perylene	17.9	U	ug/kg dry	17.9	173	1	07/30/07 22:43	DEM	EFA 62/UL	/02/018
0-32-8	Benzo (a) pyrene	21.2	υ	ug/kg dry	21.2	173	1	07/30/07 22:43	DEM	EPA 8270C	/G2/018
0-12-0	l-Methylnaphthalene	86.7	υ	ug/kg dry	86.7	173	1	07/30/07 22:43	DEM	EPA 82700	/G2/018
18-01-9	Chrysene	20.7	U	ug/kg dry	20.7	173	1	07/30/07 22.43	DEM	EPA 8270C	7627018
3-70-3	Dibenz (a,h) anthracene	22.7	U	ug/kg drv	22.7	173	1	07/20/07 22:43	REM	EPA 82/0C	7627018
Эб-44-0	Fluoranthene	24.8	U	ue/kg drv	24.8	173	1	07/30/07 22:43	REM	EPA 8270C	7G27018
5-73-7	Fluorene	67.6	U	ug/kg drv	67.6	173	1	07/30/07 22:43	DEM	EPA 82708	7G27018
}3-39-5	Indeno (1,2,3-cd) pyrene	22.4	U	ug/kg drv	27.4	173	1	07/30/07 22:43	REM	EPA 8270C	7G27018
i-57-6	2-Methylnaphthalene	73.6	U	ug/kg dry	73.6	173	1	07/30/07 22:43	REM	EPA 8270C	7G27018
I-20-3	Naphthalene	69.3	IJ	ug/kg dev	69.3	172	1	07/30/07 22:43	REM	EPA 8270C	7G27018
5-01-8	Phenanthrene	40.7	Ũ	ug/kg dry	107	173	1	07/30/07 22:43	REM	EPA 8270C	7G27018
<u> 9-00-0</u>	Ругепе	35.1	u u	ug/kg dry	35.1	172	1	07/30/07 22:43	REM	EPA 8270C	7G27018
irrogate: 2-	Fluorobiphenyl (24-121%)	55 %	.	op ng my	55.1	175	1	07/30/07 22:43	REM	EPA 8270C	7G27018
irrogate: Ni	itrobenzene-d5 (19-111%)	52%									41.
vrrogate: Te	erphenyl-d14 (44-171%)	120 %									

LABORATORY REPORT

Sample ID: 1019 FOXGLOVE BOTTOM 01 - Lab Number: OQG0504-05 - Matrix: Solid/Soil

:AS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	Ву	Method	Batch
eneral	Chemistry Parameters		_							<u> </u>	
ł	% Solids	96.8	Q	%.	0.100	0.100	·ī	07/25/07 16:55	DDD		
olatile	Organic Compounds by EPA	Method 826	0R -				•	01125/01 10.55	AKr	EPA 160.3	/G25041
-43-2	Benzene	0.152	υ υ	ug/kg drv	0 152	0.416	,	07/05/07 20 10			
0-41-4	Ethylbenzene	0.176		HP/kg dry	0.152	0.416	۰ ۲	07/25/07 23:19	JWI	EPA 8260B	7G26028
-20-3	Naphthalene	0.230		uging diry	0.170	0.410	1	0//25/07 23:19	JWT	EPA 8260B	7G26 <u>028</u>
8-88-3	Toluene	0.250	U	ug/kg aty	0.250	0.416	1	07/25/07 23:19	JWT	EPA 8260B	7G26028
20 20 7	Yolene A A	0.359	U	ug/kg dry	0.359	0.416	1	07/25/07 23:19	JWT	EPA 8260B	7G26028
50-20-7	Aylenes, total	0.216	U	ug/kg dry	0.216	0.416	1	07/25/07 23:19	JWT	FPA 8260B	7626028
rrogate: I	1,2-Dichloroethane-d4 (73-137%)	122 %			,					5111 02000	/020028
rrogate: 4	I-Bromofluorobenzene (59-118%)	99 %									
rogate: L	Dibromofluoromethane (55-145%)	108 %									
rogate: I	Toluene-d8 (80-117%)	99 %									
lynucle	ear Aromatic Hydrocarbons l	by EPA Metl	10d 827	0							
32-9	Acenaphthene	76.4	U	ug/kg dry	76.4	172	1	07/30/07 23:05	REM	EDA 9370C	7027018
1-96-8	Acenaphthylene	101	υ	ug/kg drv	101	172	1	07/30/07 23.05	DEM	EFA 0270C	/02/018
)-12-7	Anthracene	55.0	ŧ	ne/ke dry	55.0	172		07/30/07 23:03	REM	EPA 8270C	7G27018
55-3	Benzo (a) anthracene	947			10.7	172	1	07/30/07 23:05	REM	EPA 8270C	7G27018
	· · · · · · · · · · · · · · · · · · ·	/42		nevel at A	18.7	172	÷ 1	07/30/07 23:05	REM	EPA 8270C	7G27018
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Test	America - Orlando, FL				4					•	
- Enid	Ortiz For Shali Brown							. •			- 1

Project Manager

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	Sampler Signature:	PAN MAN	IC VE	1-60	:			.				-0	In	voice To	»:	<u>. </u>					
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Address: Project Manager: Project Manager: Dhn MAHatteY Site/Lot Project Manager: John MAHatteY Site/Lot Site/Lot Telephone Number: Fax: It Site/Lot Site/Lot Sampler Name: (Print Name) Jos Eph Horry It Sampler Signature: Optoph Horry It TAT Matrix Preservation & # of Containere Standard Rush (surcharges may apply) Standard Standard Standard	roject Name:
Project Manager: JOhn MAHENEY Site/Log Telephone Number: Fax: Sampler Name: Fax: Sampler Name: (Print Name) Joscph Horry Sampler Signature: Optoph Horry Intrix Preservation & # of Containers TAT Matrix Preservation & # of Containers Y Standard Standard Rush (surcharges may apply) Standard Standard	Project #: EP 236-2 Location ID:
Telephone Number: Site/Log Sampler Name: (Print Name) Joscph Horry Sampler Signature: Opscph Matrix Preservation &# of Containere Y Standard Rush (surcharges may apply)</th><th>Location ID: State: Report To: Invoice To:</th></tr><tr><td>Fax Sampler Name: (Print Name) Joseph Horry Sampler Signature: Opson Horry Sampler Signature: Opson Horry Matrix Preservation & # of Containera TAT Matrix Preservation & # of Containera A Standard # # # # # Rush (surcharges may apply) # # # #</td><td>Report To:</td></tr><tr><td>Sampler Signature: Opson With TAT Matrix Preservation & # of Containers X Standard # # # # Rush (surcharges may apply) # # #</td><td></td></tr><tr><td>TAT Matrix Preservation & # of Containera </td><td>Durate di</td></tr><tr><td>✓ Standard </td><td>Quote #: PO#:</td></tr><tr><td></td><td>Analyze For: QC Deliverable None</td></tr><tr><td>Date Needed:</td><td>(Batch QC)</td></tr><tr><th>*ax Results: N PO PO</th><th>Level 3 Level 4 Other:</th></tr><tr><td></td><td></td></tr><tr><td>007 FoxGlove Bettom of 748-07 1050 G</td><td>REMARKS</td></tr><tr><td>607 FOXGLEVE SIDE 02 7-18-07 1050 C</td><td></td></tr><tr><td>252</math> Beech Sitter d 7-18-07 1340 G $1/2$ 2 X X</td><td></td></tr><tr><td>100 1215 BOTTOM (1) 7-19-07 1050 B</td><td></td></tr><tr><td>100</math> BD SIDE 02 79 STASOC</td><td></td></tr><tr><td>1081RIST VOTTOM OI 1719-011520 G</td><td></td></tr><tr><td>108 1215 SIDE 02 7 9013800</td><td></td></tr><tr><td>112 1215 BOTTOM OI 73007940 R</td><td></td></tr><tr><td>112 Rais 5 DE 02 7-2007 950 C</td><td></td></tr><tr><td>vecial instructions:</td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td>γ</td></tr><tr><td>hus ECARNAVICIA THUR OPIEL I A ALLENTIC</td><td>Beclob Temps</td></tr><tr><td></td><td></td></tr></tbody></table>	

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Appendix C Regulatory Correspondence



BOARD: Paul C. Aughtry, III Chairman

Edwin H. Cooper, III Vice Chairman

Steven G. Kisner Secretary



BOARD: Henry C. Scott M. David Mitchell, MD Glenn A. McCali 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 – 1025 Foxglove Site ID # 03992 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 <u>bishopma@dhec.sc.gov</u>.

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)