SUMMARY REPORT 80 EAST CYPRESS STREET (FORMERLY 226 EAST CYPRESS 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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# 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 80 East Cypress Street (Formerly 226 East Cypress 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 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 80 East Cypress Street (Formerly 226 East Cypress Street). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 226 East Cypress Street* (MCAS Beaufort, 2008). The UST Assessment Report is provided in Appendix B.

# 2.1 UST Removal and Soil Sampling

On July 12, 2007, a single 280 gallon heating oil UST was removed from the driveway adjacent to the front of the house at 80 East Cypress Street (Formerly 226 East Cypress Street). The former UST location is indicated on 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 5'0" 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 3'7". The samples were collected from the fill port side of the former UST to represent a worst case scenario.

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

# 2.2 Soil Analytical Results

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

The soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form (Appendix B). The results of the soil sampling at the former UST location were used by MCAS Beaufort, in consultation with SCDHEC, to determine a path forward (i.e., additional sampling or NFA) for the property. The soil results collected from 80 East Cypress Street (Formerly 226 East Cypress 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 80 East Cypress Street (Formerly 226 East Cypress 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 – 226 East Cypress 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 - Soil80 East Cypress Street (Formerly 226 East Cypress Street)Laurel Bay Military Housing AreaMarine Corps Air Station BeaufortBeaufort, South Carolina

Constituent	SCDHEC RBSLs <sup>(1)</sup>	Results Samples Collected 07/12/07			
constituent	226 Cypress Bottom 01		226 Cypress Side 02		
Volatile Organic Compounds Analyzed	l by EPA Method 8260B (mg/kg)		•		
Benzene	0.003	ND	ND		
Ethylbenzene	1.15	ND	0.000245		
Naphthalene	0.036	ND	0.00200		
Toluene	0.627	ND	0.000307		
Xylenes, Total	13.01	ND	0.00104		
Semivolatile Organic Compounds Ana	lyzed 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:

<sup>(1)</sup> 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

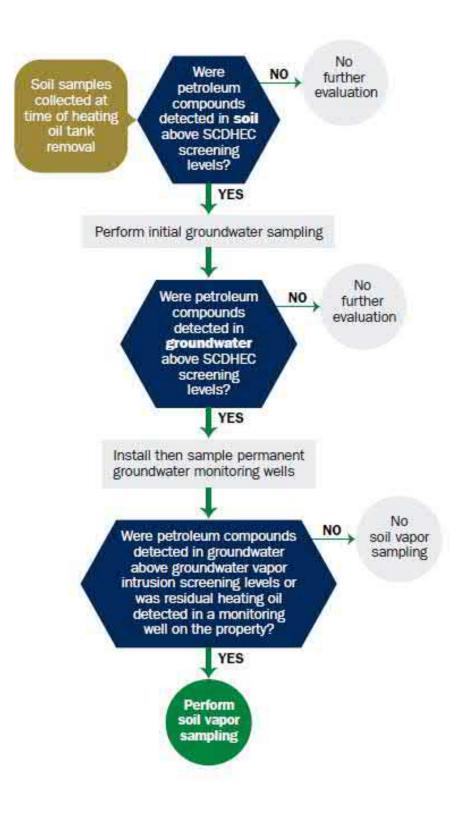
laboratory report is provided in Appendix B.

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

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

<u>I. OW</u>	VNERSHIP OF UST (S)	
Bennfort	Military Compley FAMILY House ration, Individual, Public Agency, Other)	NG
Owner Name (Corpor	ration, Individual, Public Agency, Other)	· · · · · · · · · · · · · · · · · · ·
1510 L	Aurel BAY BLUD.	
Mailing Address		
Beaufa		06
City	State. Zip Code	
843		Kyle BROADFOOT
Area Code	Telephone Number C	ontact Person
· •		

II. SITE IDENTIFICATION AND LOCATION	
N/A	
Permit I.D. # ACTUS LEND LEASE CONSTRUCTION Facility Name or Company Site Identifier	
Facility Name or Company Site Identifier	
VSTR & AMPRANIBAL BLOOD 226 CYPRESS	
Street Address or State Road (as applicable)	
Beaufort SC 29906 Beaufort City ZIP County	
City ZIP County	

Attachment 2 III. INSURANCE INFORMATION

Insurance Statement
The petroleum release reported to DHEC on $\nu/A$ at Permit ID # may qualify to receive state monies to pay for appropriate site rehabilitation activities. Before participation is allowed in the State Clean-up fund, written confirmation of the existence or non-existence of an environmental insurance policy is required. This section must be completed.
Is there now, or has there ever been an insurance policy or other financial mechanism that covers this UST release? YES NO (check one)
If you answered YES to the above question, please complete the following information:
My policy provider is: The policy deductible is: The policy limit is:
If you have this type of insurance, please include a copy of the policy with this report.
And
I do/ to not (circle one) wish to participate in the Superb Program.

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

I certify that I have personally examined and am fami attached documents; and that based on my inquiry of information, I believe that the submitted information	those individuals responsible for obtaining this
Name (Type or print.)	
Signature To be completed by Notary Public:	<b>-</b>
Sworn before me this day of	, 20
(Name)	<i>.</i>
Notary Public for the state of Please affix State seal if you are commissioned outside Se	outh Carolina

# V. UST IN\_ JRMATION

		Tank I	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
	· · · · · · · · · · · · · · · · · · ·	14-				ļ	·
, ,		#2		]			
A.	Product(ex. Gas, Kerosene)	DIESEL	{	· · · · · · · · · · · · · · · · · · ·			
B.	Capacity(ex. 1k, 2k)	358g.					
C.	Age	· .					
D.	Construction Material(ex. Steel, FRP)	steel					
E.	Month/Year of Last Use						
F.	Depth (ft.) To Base of Tank	60"					
G.	Spill Prevention Equipment Y/N	N					
H.	Overfill Prevention Equipment Y/N	N			İ		
I.	Method of Closure Removed Filled	Rejnoved	,				
J.	Date Tanks Removed/Filled						
K.	Visible Corrosion or Pitting Y/N	7-12-07					
L.	Visible Holes Y/N	Y					[
		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)

Landfull BROD Lucot TREATMENT FACILITY Solidification And Subtitle D Londfill

0. If any corrosion, pitting, or holes were observed, describe the location and extent for each UST <u>JUST A COUPLE OF SMALL HOLES WERE LOCATED ON THE</u> NORTHERN END. (CLOSEST TO THE GARAGE)

# VI. PIPING INFORMATION

		Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
A.	Construction Material(ex. Steel, FRP)	Stee.					
B.	Distance from UST to Dispenser	NIA					
C.	Number of Dispensers	-0-		·			
D.	Type of System Pressure or Suction						
Ε.	Was Piping Removed from the Ground? Y/N	Electra 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 + Vent pipe were mildly concoded.

# VII. BRIEF SITE DESCRIPTION AND HISTORY

Home HEATING DIP TANK - RESIDENTIAL

# VIII. SITE CONDITIONS

	Yes	No	Unk
<ul> <li>A. Were any petroleum-stained or contaminated soils found in the UST excavation, soil borings, trenches, or monitoring wells?</li> <li>If yes, indicate depth and location on the site map.</li> </ul>		*	-
<ul> <li>B. Were any petroleum odors detected in the excavation, soil borings, trenches, or monitoring wells?</li> <li>If yes, indicate location on site map and describe the odor (strong, mild, etc.)</li> </ul>		×	
C. Was water present in the UST excavation, soil borings, or trenches? If yes, how far below land surface (indicate location and depth)?		۶	
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:		ĸ	
<ul> <li>E. Was a petroleum sheen or free product detected on any excavation or boring waters?</li> <li>If yes, indicate location and thickness.</li> </ul>		×	

# IX. SAMPLE INFORMATION

A.

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 #
		6		( ())	7-12-07 1140	ECHEVARPUL	ND
	BOTTOM	5	SAND	60"	1140	A. ANADUSY R. MADICY	ND
2	SIDE	5	SAND	43"	1150	No Indiana	ND.
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1 <b>7</b>							
18							
19							
20							

\* = Depth Below the Surrounding Land Surface

# SAMPLING METHODOLOGY

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.

8260 B Volatile ORGANIC Compounds thad Mo BISUPFATE Reseas twe Zer Sodium PA Poly AROMATIC Hydro CARBONS METHON EP4 82 70 PRESERVATI No

ONE SIDEWAL Anno ONE Kattom TANK Secured from CAVATION were pped 1.3010 Stone 5 h AN AND Cooler red w IÈE

.

# XI. RECEPTORS

		Yes	No
А.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?		X
	If yes, indicate type of receptor, distance, and direction on site map.		
В.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?		
	If yes, indicate type of well, distance, and direction on site map.		
C.	Are there any underground structures (e.g., basements) Located within 100 feet of the UST system?		
	If yes, indicate type of structure, distance, and direction on site map.		1
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.		1
E.	Has contaminated soil been identified at a depth less than 3 feet below land surface in an area that is not capped by asphalt or concrete?		-
	If yes, indicate the area of contaminated soil on the site map.		

# SUMMARY OF ANALYSIS RESULTS

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	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8
Benzene								
Toluene					· ·			
Ethylbenzene								
Xylenes								
Naphthalene								
Benzo(a)anthracene								
Benzo(b)flouranthene								
Benzo(k)flouranthene								
Chrysene								
Dibenz(a,h)anthracene								
TPH (EPA 3550)								
CoC	SB-9	SB-10	SB-11	SB-12	SB-13	SB-14	SB-15	SB-16
Benzene								
Toluene								
Ethylbenzene								
Xylenes								
Naphthalene							•	

 Benzo(a)anthracene
 Image: Constraint of the second sec

# SUMMARY OF ANALYSIS RESULTS (cont'd)

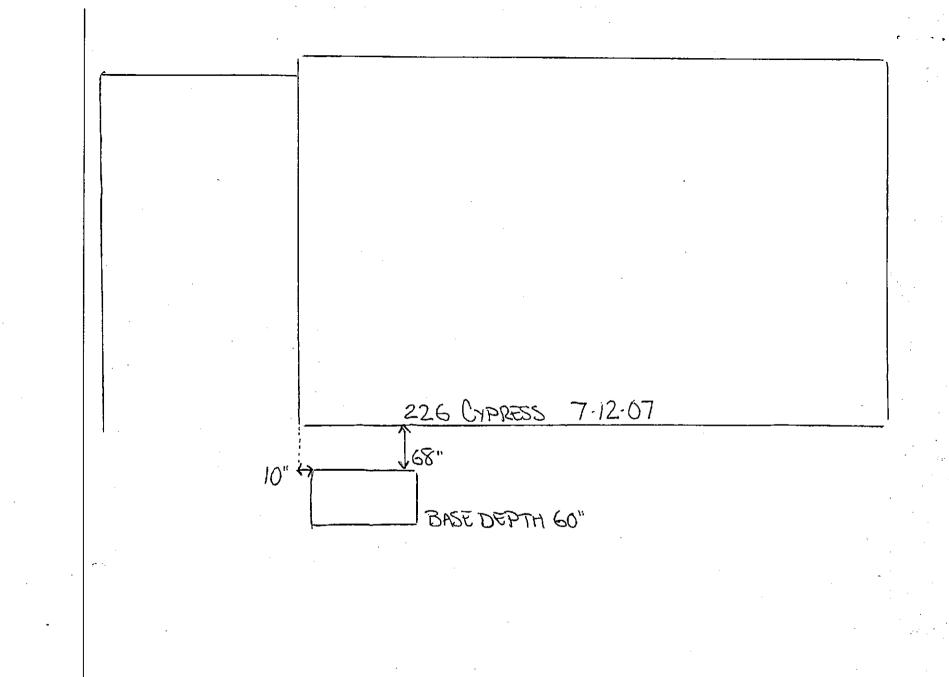
NA

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

CoC	RBSL (µg/l)	W-1	W-2	W -3	W -4
Free Product Thickness	None			,	
Benzene	5				
Toluene	1,000				
Ethylbenzene	700				
Xylenes	10,000				
Total BTEX	N/A				
МТВЕ	40				
Naphthalene	25				
Benzo(a)anthracene	10				
Benzo(b)flouranthene	10				
Benzo(k)flouranthene	10			,	
Chrysene	10				
Dibenz(a,h)anthracen e	10				
EDB	.05	· · · ·			
1,2-DCA	.05				
Lead	Site specific				



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	12-2012 1251 DC			Ν	
	12-2012 1251 DC		·	Ν	
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				N	
				N	
· · · · · · · · · · · · · · · · · · ·				N 	
CUSTOMER :		SCALE :			
customer : BEAUFORT MILITARY CO		SCALE : 1/16"=1'-0" SUPPLIER :		EPG INC.	
CUSTOMER :	OMPLEX FAMILY HOUSING	SCALE : 1/16"=1'-0"			5–1096



# 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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# **Test**America

ANALYTICAL TESTING CORPORATION

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

Client:	EPG, INC.	Work Order:	OQG0323	Sampled:	07/12/07-07/13/07
	PO BOX 1096	Project:	LAUREL BAY	Received:	07/17/07
	MT PLEASANT, SC 29465	Project Number:	EP2362		
Attn:	JOHN MAHONEY	• .			:

#### LABORATORY REPORT Sample ID: 225 CYPRESS SIDE 02 - Lab Number: OQG0323-02 - Matrix: Solid/Soil

CAS #	Analyte	Result	, Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	Ву	Method	Batch
Volatile C	rganic Compounds by EPA Metho	d 8260B - Co	ont.	••••••••			•••••	•	• • • • • • •		
91-20-3	Naphthalene	0.283	บ	ug/kg dry	0.283	0.513	1	07/17/07 17:38	JWT	EPA 8260B	7G17048
108-88-3	Toluene	0.443	U	ug/kg dry	0.443	0.513	1	07/17/07 17:38	JWT	EPA 8260B	7G17048
1330-20-7	Xylenes, total	0.266	U	ug/kg dry	0.266	0.513	1	07/17/07 17:38	JWT	EPA 8260B	7G17048
Surrogate: 1,	2-Dichloroethane-d4 (73-137%)	113 %									
Surrogate: 4-	Bromofluorobenzene (59-118%)	93 <b>%</b>									
Surrogate: D	ibromofluoromethane (55-145%)	105 %		;							
Surrogate: To	oluene-d8 (80–117%)	101 %									
	ar Aromatic Hydrocarbons by EPA	Method 823	70								
83-32-9	Acenaphthene	97.8	U	ug/kg dry	97.8	221	I	07/24/07 09:18	лs	EPA 8270C	7G19004
208-96-8	Acenaphthylene	129	U	ug/kg dry	129	221	1	07/24/07 09:18	JLS	EPA 8270C	7G19004
120-12-7	Anthracene	70.4	U	ug/kg dry	70.4	221	1	07/24/07 09:18	ЛS	EPA 8270C	7G19004
56-55-3	Benzo (a) anthracene	23.9	U	ug/kg dry	23.9	221	1	07/24/07 09:18	лѕ	EPA 8270C	7G19004
205-99-2	Benzo (b) fluoranthene	23.2	U	ug/kg dry	23.2	221	1	07/24/07 09:18	лл	EPA 8270C	7G19004
207-08-9	Benzo (k) fluoranthene	23.2	υ	ug/kg dry	23.2	221	1	07/24/07 09:18	JLS	EPA 8270C	7G19004
191-24-2	Benzo (g,h,i) perylene	22.9	ប	ug/kg dry	22.9	221	1	07/24/07 09:18	ЛS	EPA 8270C	7G19004
50-32-8	Benzo (a) pyrene	27,2	υ	ug/kg dry	27.2	221	1	07/24/07 09:18	л.s	EPA 8270C	7G19004
90-12-0	I-Methylnaphthalene	111	U	ug/kg dry	111	221	L	07/24/07 09:18	лs	EPA 8270C	7G19004
218-01-9	Chrysene	26.4	U	ug/kg dry	26.4	221	1	07/24/07 09:18	ЛS	EPA 8270C	7G19004
53-70-3	Dibenz (a,h) anthracene	29,0	U	ug/kg dry	29.0	221	1.	07/24/07 09:18	JLS	EPA 8270C	7G19004
206-44-0	Fluoranthene	31.7	U	ug/kg dry	31.7	221	1	07/24/07 09:18	ЛS	EPA 8270C	7G19004
86-73-7	Fluorene	86,4	U	ug/kg dry	86.4	221	. 1 .	07/24/07 09:18	ЛS	EPA 8270C	7G19004
193-39-5	Indeno (1,2,3-cd) pyrene	28.6	U	ug/kg dry	28.6	221	1	07/24/07 09:18	ЛS	EPA 8270C	7G19004
91-57-6	2-Methylnaphthalene	94.1	ប	ug/kg dry	94.1	221	1	07/24/07 09:18	JLS	EPA 8270C	7G19004
91-20-3	Naphthalene	88.6	U	ug/kg dry	88,6	221	1	07/24/07 09:18	ЛS	EPA 8270C	7G19004
85-01-8	Phenanthrene	52.0	υ	ug/kg dry	52.0	221	1	07/24/07 09:18	ЛS	EPA 8270C	7G19004
129-00-0	Pyrene	44.8	U	ug/kg dry	44.8	221		07/24/07 09:18	лs	EPA 8270C	7G19004
Surrogate: 2-F	luorobiphenyl (24-121%)	71 %									
Surrogate: Nit	robenzene-d5 (19-111%)	71%			÷						
Surrogate: Ter	phenyl-d14 (44-171%)	116 %			1						

#### LABORATORY REPORT

# Sample ID: 226 CYPRESS BOTTOM 01 - Lab Number: OQG0323-03 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	Ву	Method	Batch
General C	Chemistry Parameters					•••••		•••••••			
NA	% Solids	85.6		%.	0,100	0.100	1	07/18/07 16:50	RRP	EPA 160.3	7G18042
Volatile O	rganic Compounds by EPA N	1cthod 8260B									
71-43-2	Benzene	0.129	U	ug/kg dry	0.129	0.351	1	07/17/07 17:54	JWT	EPA 8260B	7G17048
100-41-4	Ethylbenzene	0.149	ט	ug/kg dry	0.149	0.351	1	07/17/07 17:54	TWL	EPA 8260B	7G17048
1-20-3	Naphthalene	0.194	U	ug/kg dry	0.194	0.351	1	07/17/07 17:54	JWT	EPA 8260B	7G17048
08-88-3	Toluene	0.304	U	ug/kg dry	0.304	0.351	1	07/17/07 17:54	JWT	EPA 8260B	7G17048
330-20-7	Xylenes, total	0.183	ប	ug/kg dry	0.183	0.351	· 1	07/17/07 17:54	TWL	EPA 8260B	7G17048
urrogate: 1,1	2-Dichloroethane-d4 (73-137%)	104 %		<u>}</u>	· .		-				

TestAmerica - Orlando, FL

Shali Brown

Project Manager

# Test America

ANALYTICAL TESTING CORPORATION

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

Client:	EPG, INC.	Work Order:	OQG0323	Sampled: 07/12/07-07/13/07
	PO BOX 1096	Project:	LAUREL BAY	Received: 07/17/07
Attn:	MT PLEASANT, SC 29465 JOHN MAHONEY	Project Number:	EP2362	· · · · · · · · · · · · · · · · · · ·

#### LABORATORY REPORT Sample ID: 226 CYPRESS BOTTOM 01 - Lab Number: OQG0323-03 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
	rganic Compounds by EPA M	ethod 8260B - Co	ont.	· · · · · · · · · · · · · · · · · · ·		• • • • • • •	•••••			••••••••	••••••
-	Bromofluorobenzene (59-118%)	97 %									
Surrogate: D	ibromofluoromeinane (55-145%)	105 <del>%</del>									
Surrogate: To	oluene-d8 (80-117%)	101 %									
	ar Aromatic Hydrocarbons by		70							-	
83-32-9	Acenaphthene	86.4	ប	ug/kg dry	86.4	195	1	07/24/07 09:40	ЛLS	EPA \$270C	7G19004
208-96-8	Acenaphthylene	114	U	ug/kg dry	114	195	1	07/24/07 09:40	Л.S	EPA 8270C	7G19004
20-12 <b>-</b> 7	Anthracene	62.2	U	ug/kg dry	62.2	195	1	07/24/07 09:40	лs	EPA 8270C	7G19004
6-55-3	Benzo (a) anthracene	21.1	U	ug/kg dry	21.1	195	1	07/24/07 09:40	ЛS	EPA 8270C	7G19004
05-99-2	Benzo (b) fluoranthene	20.5	U	ug/kg dry	20.5	195	1	07/24/07 09:40	ЛS	EPA 8270C	7G19004
07-08-9	Benzo (k) fluoranthene	20.5	ប	ug/kg dry	20.5	195	1	07/24/07 09:40	Л.S	EPA 8270C	7G19004
91-24-2	Benzo (g,h,i) perylene	20.2	U	ug/kg dry	20.2	195	1	07/24/07 09:40	ЛS	EPA 8270C	7G19004
0-32-8	Benzo (a) pyrene	24.0	U	ue/ke drv	24.0	195	1	07/24/07 09:40	ПS	EPA 8270C	7619004
0-12-0	1-Methylnaphthalene	97.9	บ	ug/kg dry	97.9	195	1	07/24/07 09:40	ЛS	EPA 8270C	7G19004
18-01-9	Chrysene	23.3	ប	ug/kg dry	23.3	195	1	07/24/07 09:40	лs	EPA 8270C	7G19004
3-70-3	Dibenz (a,h) anthracene	25.6	ប	ug/kg dry	25.6	195	1	07/24/07 09:40	ЛS	EPA 8270C	7G19004
06-44-0	Fluoranthene	28.1	U	ug/kg dry	28.1	195	1	07/24/07 09:40	ЛS	EPA 8270C	7G19004
6-73-7	Fluorene	76.3	U	ug/kg dry	76.3	195	L	07/24/07 09:40	JLS	EPA 8270C	7G19004
73-39-5	Indeno (1,2,3-cd) pyrene	25.3	υ	ug/kg dry	25.3	195	1	07/24/07 09:40	Л.S	EPA 8270C	7G19004
1-57-6	2-MethyInaphthalene	83.2	U	ug/kg dry	83.2	195	I	07/24/07 09:40	JLS	EPA 8270C	7G19004
1-20-3	Naphthalene	78.3	U	ug/kg dry	78.3	195	1	07/24/07 09:40	ЛS	EPA 8270C	7G19004
5-01-8	Phenanthreae	178	I	ug/kg dry	46.0	195	t	07/24/07 09:40	ЛS	EPA 8270C	7G19004
29-00-0	Pyrene	39.6	U	ug/kg dry	39.6	195	1	07/24/07 09:40	ЛLS	EPA 8270C	7G19004
urrogate: 2-l	Fluorobiphenyl (24-121%)	6I <b>%</b>								•	
irrogate: Nii	robenzene-d5 (19-111%)	64 %									
arrogate: Tel	phenyl-d14 (44-171%)	103 %									

#### LABORATORY REPORT

## Sample ID: 226 CYPRESS SIDE 02 - Lab Number: OQG0323-04 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
General C	hemistry Parameters				••••••				•••••	• • • • • • • • • • • • • • • • •	
NA COMPL	% Solids		• <i>2.</i>	%.	0.100	0.100	1	07/18/07 16:50	RRP	EPA 160.3	7G18042
Volatile Or	rganic Compounds by EPA Meth	nod 8260B									
71-43-2	Benzene	0,125	U	ug/kg dry	0.125	0.341	1	07/18/07 11:19	TWL	EPA 8260B	7G17048
100-41-4	Ethylbenzene	0.245	I	ug/kg dry	0,144	0.341	1	07/18/07 11:19	JWT	EPA 8260B	7G17048
91-20-3	Naphthalene	2.00		ug/kg dry	0.188	0.341	1	07/18/07 11:19	JWT	EPA 8260B	7G17048
108-88-3	Toluene	0.307	I	ug/kg dry	0.294	0.341	1	07/18/07 11:19	JWT	EPA 8260B	7G17048
1330-20-7	Xylenes, total	1.04	v	ug/kg dry	0.177	0.341	1	07/18/07 11:19	JWT	EPA 8260B	7G17048
Surrogate: 1,2	-Dichloroethane-d4 (73-137%)	110 %									
Surrogate: 4-B	Bromofluorobenzene (59-118%)	102 %									
Surrogate: Dib	promofluoromethane (55-145%)	108 %									
Surrogate: Tol	uene-d8 (80-117%)	100 %									

Polynuclear Aromatic Hydrocarbons by EPA Method 8270

TestAmerica - Orlando, FL Shali Brown Project Manager

# Test An nerica

ANALYTICAL TESTING CORPORATION

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

Client:	EPG, INC.	Work Order:	OQG0323	Sampled: 07/12/07-07/13/07
	PO BOX 1096	Project:	LAUREL BAY	Received: 07/17/07
Attn:	MT PLEASANT, SC 29465 JOHN MAHONEY	Project Number:	EP2362	· · · · · · · · · · · · · · · · · · ·

#### LABORATORY REPORT Sample ID: 226 CYPRESS SIDE 02 - Lab Number: OQG0323-04 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Polynucles	r Aromatic Hydrocarbons	by EPA Method 827(	• • - · }	•••••		•••••					
83-32-9	Acenaphthene	· 82,6	ប	ug/kg dry	82.6	186	1	07/24/07 10:02	ЛS	EPA 8270C	7G19004
208-96-8	Acenaphthylene	109	U	ug/kg dry	109	186	1	07/24/07 10:02	ЛS	EPA 8270C	7G19004
120-12-7	Anthracene	59.4	ប	ug/kg dry	59.4	186	t	07/24/07 10:02	JLS	EPA 8270C	7G19004
56-55-3	Benzo (a) anthracene	20.2	U	ug/kg dry	20.2	186	1	07/24/07 10:02	ЛLS	EPA 8270C	7G19004
205-99-2	Benzo (b) fluoranthene	19.6	ύ	ug/kg dry	19.6	186	, 1	07/24/07 10:02	JLS	EPA 8270C	7G19004
207-08-9	Benzo (k) fluoranthene	19.6	U	ug/kg dry	19.6	186	1	07/24/07 10:02	ЛS	EPA 8270C	7G19004
191-24-2	Benzo (g.h.i) perylene	19.3	U	ug/kg dry	19.3	186	1	07/24/07 10:02	Л.S	EPA 8270C	7G19004
50-32-8	Benzo (a) pyrene	22.9	U	ug/kg dry	22.9	186	1	07/24/07 10:02	лs	EPA 8270C	7G19004
90-12-0	1-Methyinaphthalene	93.5	U	ug/kg dry	93.5	186	1	07/24/07 10:02	JLS	EPA 8270C	7G19004
218-01-9	Chrysene	22.3	U	ug/kg dry	22.3	186	1	07/24/07 10:02	JLS	EPA \$270C	7G19004
53-70-3	Dibenz (a,h) anthracene	24.5	U	ug/kg dry	24.5	186	1	07/24/07 10:02	ЛLS	EPA 8270C	7G19004
206-44-0	Fluoranthene	26.8	ų	<u>ug/ug 스</u> 닷	26.8	195	1	07/24/07 10:02	лс	EFA 3278C	7019004
86-73-7	Fluorene	72.9	U	ug/kg dry	72.9	186	1	07/24/07 10:02	ЛS	EPA 8270C	7G19004
193-39-5	Indeno (1,2,3-cd) pyrene	24.1	U	ug/kg dry	<b>24</b> .1	186	1	07/24/07 10:02	ЛS	EPA 8270C	7G19004
91-57-6	2-Methylnaphthalene	79.4	U	ug/kg dry	79.4	186	1	07/24/07 10:02	ЛS	EPA 8270C	7G19004
91-20-3	Naphthalene	74.8	U	ug/kg dry	74.8	186	1	07/24/07 10:02	ЛS	EPA 8270C	7G19004
85-01-8	Phenanthrene	43.9	ប	ug/kg dry	43.9	186	1.	07/24/07 10:02	ЛS	EPA 8270C	7G19004
129-00-0	Рутеле	37.9	ប	ug/kg dry	37.9	186	1	07/24/07 10:02	ЛS	EPA \$270C	7G19004
Surrogate: 2-Fi	luorobiphenyl (24-121%)	60 %									
Surrogate: Nitr	obenzene-d5 (19-111%)	60 %									
Surrogate: Terp	ohenyl-d14 (44-171%)	109 %									

#### LABORATORY REPORT

### Sample ID: 262 BEECH BOTTOM 01 - Lab Number: OQG0323-05 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
General (	Chemistry Parameters			• • • • • • • • • • • • • •		••••			<b>-</b>	•••••••	· · · · · · · · · · · · · · ·
NA	% Solids	76.3		%.	0.100	0,100	1	07/18/07 16:50	RRP	EPA 160.3	7G18042
Volatile ()	rganic Compounds by EPA Methoe	I 8260B									
/1-43-2	Benzene	0.0982	IJ	ug/kg dry	0.0982	0.268	1	07/17/07 18:11	TWL	EPA 8260B	7G17048
100-41-4	Ethylbenzene	0.692	•	ug/kg dry	0.113	0.268	1	07/17/07 18:11	JWT	EPA 8260B	7G17048
91-20-3	Naphthalene gang and and and and	. <b>11.8</b>		ug/kg dry	0.148	0.268	I	07/17/07 18:11	JWT	EPA 8260B	7G17048
08-88-3	Toluene	0.232	ឋ	ug/kg dry	0.232	0.268	I	07/17/07 18:11	JWT	EPA 8260B	7G17048
330-20-7	Xylenes, total	0.139	ប	ug/kg dry	0.139	0.268	1	07/17/07 18:11	TWL	EPA 8260B	7G17048
urrogate: 1,3	2-Dichloroethane-d4 (73-137%)	112 %									
urrogale: 4-;	Bromofluarobenzene (59-118%)	96 %									
urrogale: Di	bromofluoromethane (55-145%)	107 %									
urrogate: To	luene-d8 (80-117%)	100 %									
olynuclea	ar Aromatic Hydrocarbons by EPA	Method 82?	70								
3-32-9	Acenaphthene	173	I	ug/kg dry	96.9	219	1	07/24/07 10:25	ЛS	EPA 8270C	7G19004
08-96 <b>-</b> 8	Acenaphthylene	128	U	ug/kg dry	128	219	1	07/24/07 10:25	JLS	EPA 8270C	7G19004
20-12-7	Anthracene	214	I	ug/kg dry	69,8	219	1	07/24/07 10:25	ЛS	EPA 8270C	7G19004
6-55-3	Benzo (a) anthracene	90.0	r	ug/kg dry	23.7	219	1	07/24/07 10:25	Л.S	EPA 8270C	7G19004

#### TestAmerica - Orlando, FL Shali Brown

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Project Manager

		ESTAMETICA ANALYTICAL TESTING CORPORATION Client Name EPG							•	Client #: 2411						To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes? Compliance Monitoring											
		Address		<u> </u>							•		nt#:			<u> </u>		<b>D</b>		1	~ ~ ~	<u>_</u>	R.				
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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. McCall Coleman F. Buckhouse, MD

C. Eatl 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 – 226 Cypress Site ID # 04005 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 Biston, Hydrogeologist Groundwater Quality Section Bureau of Water

B. Thomas Kright, 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)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL 2600 Bull Street • Columbia, SC 29201 • Phone: (803) 898-3432 • www.scdhec.gov