SUMMARY REPORT
57 BANYAN DRIVE (FORMERLY 119 BANYAN DRIVE)
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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**Contract Number: N62470-14-D-9016** 

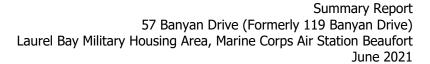
CTO WE52

**JUNE 2021** 



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#### **List of Acronyms**

bgs below ground surface

BTEX benzene, toluene, ethylbenzene, and xylenes

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

LTM long-term monitoring
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

UFP SAP Uniform Federal Policy Sampling and Analysis Plan
USEPA United States Environmental Protection Agency

UST underground storage tank

VI vapor intrusion

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 57 Banyan Drive (Formerly 119 Banyan Drive). 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 UST. 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).

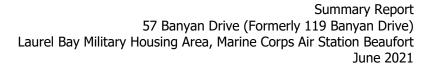
In 2007, MCAS Beaufort began a voluntary program to remove the unregulated, residential heating oil USTs and conduct sampling activities to determine if, and to what extent, petroleum constituents may have impacted the surrounding environment. MCAS Beaufort coordinated with the SCDHEC to develop removal 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 IGWA sampling process utilizes temporary groundwater sampling points that are typically installed and sampled within the same day. The intent of the sampling point is to determine the presence or absence of the aforementioned COPCs in groundwater and identify whether former UST locations may require additional delineation of COPCs in groundwater. These sampling points are not subjected to the same installation standards as permanent monitoring wells and, as such; the data obtained from the IGWA wells can sometimes be biased high and is considered preliminary data. In order to confirm the presence of any impact to groundwater, a permanent well is installed where IGWA sampling has indicated the presence of COPCs is in excess of the SCDHEC RBSLs for groundwater. If COPCs are found to be present in the permanent well, additional permanent wells are installed to delineate the extent of impact to groundwater and a sampling program (long-term monitoring [LTM]) is established. LTM is conducted at the property until COPC concentrations in groundwater sampled from all permanent monitoring wells are less than the SCDHEC RBSLs for three or more consecutive sampling events. Groundwater analytical results from permanent wells 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 multimedia 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 57 Banyan Drive (Formerly 119 Banyan Drive). The sampling activities at 57 Banyan Drive (Formerly 119 Banyan Drive) comprised a soil investigation, IGWA sampling, installation and sampling of four permanent monitoring wells, LTM sampling, and a vapor intrusion (VI) investigation. Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report* – 119 Banyan Drive (MCAS Beaufort, 2009). The UST Assessment Report is provided in



Appendix B. Details regarding the IGWA sampling activities at this site are provided in the *Initial Groundwater Investigation Report – July 2013* (Resolution Consultants, 2015). The laboratory report that includes the pertinent IGWA analytical results for this site is presented in Appendix C. Details regarding the permanent well installations and initial sampling activities at this site are provided in the *Groundwater Assessment Report – November and December 2015* (Resolution Consultants, 2016). The laboratory reports that includes the pertinent groundwater analytical results for this site are presented in Appendix D. Details regarding the LTM activities to date at this site are provided in the *2018 Groundwater Monitoring Report* (Resolution Consultants, 2018). A comprehensive table of the historical groundwater analytical results for all permanent monitoring wells at the site through 2019 is presented in Appendix E. Details regarding the VI investigation at this site are provided in the *Letter Report Petroleum Vapor Intrusion Investigations – April 2017 through February 2018* (Resolution Consultants, 2018). The laboratory report that includes the pertinent soil gas analytical results for this site is presented in Appendix F.

#### 2.1 UST Removal and Soil Sampling

On February 17, 2009, a single 280 gallon heating oil UST was removed from the front landscaped area, adjacent to the porch at 57 Banyan Drive (Formerly 119 Banyan Drive). The former UST location is indicated on Figures 2 and 3 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. The sample was collected from the fill port side of the former UST to represent a worst case scenario 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 No Further Action [NFA]) for the property. The soil results collected from the former UST location at 57 Banyan Drive (Formerly 119 Banyan Drive) were greater than the SCDHEC RBSLs, which indicated further investigation was required. In a letter dated May 12, 2009, SCDHEC requested an IGWA for 57 Banyan Drive (Formerly 119 Banyan Drive) to determine if the groundwater was impacted by petroleum COPCs. SCDHEC's request letter is provided in Appendix G.

#### 2.3 Initial Groundwater Sampling

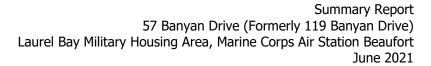
On July 18, 2013, a single temporary monitoring well was installed at 57 Banyan Drive (Formerly 119 Banyan Drive), in accordance with the South Carolina Well Standards and Regulations (R.61-71.H-I, updated June 24, 2016). In order to provide data that can be used to determine whether COPCs are migrating to underlying groundwater, the monitoring well was placed in the same general location as the former heating oil UST. The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). Further details are provided in the *Initial Groundwater Investigation Report – July 2013* (Resolution Consultants, 2015).

The sampling strategy for this phase of the investigation required a one-time sampling event of the temporary monitoring well. Following well installation and development, a groundwater sample was 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.H-I (SCDHEC, 2016). Field forms are provided in the *Initial Groundwater Investigation Report – July 2013* (Resolution Consultants, 2015).

#### 2.4 Initial 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 57 Banyan Drive (Formerly 119 Banyan Drive) were greater than the SCDHEC RBSLs and the site specific groundwater VISLs (Table 2), which





indicated further investigation was required. In a letter dated August 6, 2015, SCDHEC requested a permanent well be installed for 57 Banyan Drive (Formerly 119 Banyan Drive) to confirm the impact to groundwater detected in the temporary well sample. SCDHEC's request letter is provided in Appendix G.

#### 2.5 Permanent Well Groundwater Sampling

In November 2015, four permanent monitoring wells were installed at 57 Banyan Drive (Formerly 119 Banyan Drive), 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, a permanent monitoring well, MW01, was placed in the same general location as the former heating oil UST and the IGWA sample location. The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). Three additional permanent wells (MW02, MW03 and MW04) were also installed around the property at 57 Banyan Drive (Formerly 119 Banyan Drive) to delineate potential contamination. Further details are provided in the *Groundwater Assessment Report – November and December 2015* (Resolution Consultants, 2016).

The sampling strategy for this phase of the investigation required an initial sampling event of the permanent monitoring wells. Following well installation and development, groundwater samples were collected using low-flow methods and shipped to an offsite laboratory for analysis of the petroleum COPCs. Field forms are provided in the *Groundwater Assessment Report – November and December 2015* (Resolution Consultants, 2016).

#### 2.6 Permanent Well Groundwater Analytical Results

A summary of the laboratory analytical results and SCDHEC RBSLs is presented in Table 3. A copy of the laboratory analytical data reports are included in Appendix D.

The groundwater results collected from 57 Banyan Drive (Formerly 119 Banyan Drive) at MW01 were greater than the SCDHEC RBSLs (Table 3), which indicated that further investigation was required. In a letter dated July 21, 2016, SCDHEC requested that LTM be carried out for 57 Banyan Drive (Formerly 119 Banyan Drive) to continue to monitor the impact to groundwater detected in the permanent well sample (MW01). SCDHEC's request letter is provided in Appendix G.



#### 2.7 Long Term Monitoring

The LTM program at 57 Banyan Drive (Formerly 119 Banyan Drive) consisted of annual groundwater sampling at the four permanent monitoring wells. LTM sampling activities were conducted annually from 2016 until 2018 at the referenced site. The latest groundwater sampling details are provided in the *2018 Groundwater Monitoring Report* (Resolution Consultants, 2018).

The sampling strategy for this phase of the investigation required annual LTM sampling of the permanent wells until an optimized monitoring strategy (e.g., reduced COPCs, reduced sampling frequency, reduce number of wells, etc.) or NFA determination could made for the site. During each LTM sampling event, groundwater samples were collected using low-flow methods and shipped to an offsite laboratory for analysis of the petroleum COPCs. Field forms from the most recent sampling event at 57 Banyan Drive (Formerly 119 Banyan Drive) are provided in the 2018 Groundwater Monitoring Report (Resolution Consultants, 2018).

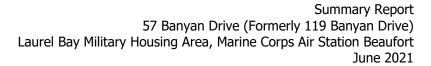
#### 2.8 Long Term Monitoring Analytical Results

A summary of the laboratory analytical results and SCDHEC RBSLs is presented in Table 4. A comprehensive table of the historical groundwater analytical results for all permanent monitoring wells at the site through 2018 is presented in Appendix E. The associated laboratory analytical data reports are located in each of the annual LBMH groundwater monitoring reports.

The groundwater results collected from 57 Banyan Drive (Formerly 119 Banyan Drive) were less than the SCDHEC RBSLs and the site specific groundwater VISLs (Table 4) during the 2016, 2017 and 2018 groundwater sampling events. This indicated that the groundwater was no longer impacted by COPCs associated with the former UST at concentrations that may present a potential risk to human health and the environment.

#### 2.9 Soil Gas Sampling

On May 2, 2017, a single temporary subsurface soil gas well was installed at 57 Banyan Drive (Formerly 119 Banyan Drive) in accordance with the SCDHEC approved *Uniform Federal Policy Sampling and Analysis Plan (UFP SAP) for Vapor Media, Revision 4* (Resolution Consultants, 2017). A near-slab subsurface soil gas well was placed near the house slab and in the same general location as the former heating oil UST. The former UST location is indicated on Figures





2 and 3 of the UST Assessment Report (Appendix B). Further details are provided in the *Letter Report Petroleum Vapor Intrusion Investigations – April 2017 through February 2018* (Resolution Consultants, 2018).

The sampling strategy for this phase of the investigation required a one-time sampling event of the subsurface soil gas well. The subsurface soil gas well was sampled on May 8, 2017. A soil gas sample was collected and shipped to an offsite laboratory for analysis of the petroleum COPCs. Upon completion of soil gas sampling, the temporary subsurface soil gas well was abandoned in accordance with the *UFP SAP for Vapor Media, Revision 4* (Resolution Consultants, 2017). Field forms are provided in the *Letter Report Petroleum Vapor Intrusion Investigations – April 2017 through February 2018* (Resolution Consultants, 2018).

#### 2.10 Soil Gas Analytical Results

A summary of the laboratory analytical results and United States Environmental Protection Agency (USEPA) VISLs is presented in Table 5. A copy of the laboratory analytical data report is included in Appendix F.

The soil gas results collected from 57 Banyan Drive (Formerly 119 Banyan Drive) were below the USEPA VISLs, which indicated that the near-slab subsurface soil gas was not impacted by COPCs associated with the former UST at concentrations that present a potential risk to human health and the environment.

#### 3.0 PROPERTY STATUS

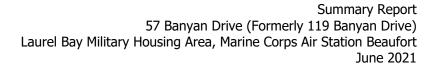
Based on the analytical results for groundwater collected from the permanent monitoring wells during the three most recent sampling events, SCDHEC made the determination that NFA was required for 57 Banyan Drive (Formerly 119 Banyan Drive). The NFA determination for groundwater was obtained in a letter dated September 24, 2018. Based on the analytical results for soil gas, it was determined that there was not a VI concern at this property and a recommendation was made for no additional VI assessment activities. SCDHEC approved the no further VI investigation recommendation for 57 Banyan Drive (Formerly 119 Banyan Drive) in a letter dated August 29, 2018. SCDHEC's letters are provided in Appendix G.



#### 4.0 REFERENCES

- Marine Corps Air Station Beaufort, 2009. South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report 119
  Banyan Drive, Laurel Bay Military Housing Area, April 2009.
- Resolution Consultants, 2015. *Initial Groundwater Investigation Report July 2013 for Laurel Bay Military Housing Area, Multiple Properties, Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort, Beaufort, South Carolina*, June 2015.
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  Housing Area, Marine Corps Air Station Beaufort, Beaufort, South Carolina, June 2016.
- Resolution Consultants, 2017. *Uniform Federal Policy Sampling and Analysis Plan for Vapor Media, Revision 4, for Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort, Beaufort, South Carolina*, May 2017.
- Resolution Consultants, 2018. Letter Report Petroleum Vapor Intrusion Investigations April 2017 through February 2018 for Laurel Bay Military Housing Area, Multiple Properties, Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort, Beaufort, South Carolina, July 2018.
- Resolution Consultants, 2018. 2018 Groundwater Monitoring Report for Laurel Bay Military Housing Area, Long-Term Monitoring (LTM), Revision 1, Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort, Beaufort, South Carolina, August 2018.
- 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.
- United States Environmental Protection Agency, 2018. *USEPA OSWER Vapor Intrusion Assessment, Vapor Intrusion Screening Level Calculator,* May 2018.



# Table 1 Laboratory Analytical Results - Soil 57 Banyan Drive (Formerly 119 Banyan Drive) Laurel Bay Military Housing Area Marine Corps Air Station Beaufort Beaufort, South Carolina

Constituent	SCDHEC RBSLs (1)	Results Sample Collected 02/17/09
Volatile Organic Compounds Analyz	ed by EPA Method 8260B (mg/kg)	
Benzene	0.007	ND
Ethylbenzene	1.15	0.168
Naphthalene	0.036	4.99
Toluene	1.45	0.00355
Xylenes, Total	14.5	0.198
Semivolatile Organic Compounds Ar	nalyzed by EPA Method 8270C (mg/kg)	
Benzo(a)anthracene	0.066	ND
Benzo(b)fluoranthene	0.066	ND
Benzo(k)fluoranthene	0.066	ND
Chrysene	0.066	ND
Dibenz(a,h)anthracene	0.066	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

<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 (SCDHEC, May 2001).

#### Laboratory Analytical Results - Initial Groundwater 57 Banyan Drive (Formerly 119 Banyan Drive) Laurel Bay Military Housing Area Marine Corps Air Station Beaufort Beaufort, South Carolina

Constituent	SCDHEC RBSLs (1)	Site-Specific Groundwater VISLs (µg/L) <sup>(2)</sup>	Results Sample Collected 07/18/2013
<b>Volatile Organic Compounds Analyze</b>	d by EPA Method 8260B (µ	ıg/L)	
Benzene	5	16.24	ND
Ethylbenzene	700	45.95	7.5
Naphthalene	25	29.33	58
Toluene	1000	105,445	ND
Xylenes, Total	10,000	2,133	8.5
Semivolatile Organic Compounds Ana	alyzed by EPA Method 827	0D (μg/L)	
Benzo(a)anthracene	10	NA	0.11
Benzo(b)fluoranthene	10	NA	ND
Benzo(k)fluoranthene	10	NA	ND
Chrysene	10	NA	ND
Dibenz(a,h)anthracene	10	NA	ND

#### Notes:

(1) South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 2.0 (SCDHEC, April 2013).

(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<sup>-6</sup>, 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

# Laboratory Analytical Results - Permanent Monitoring Well Groundwater 57 Banyan Drive (Formerly 119 Banyan Drive) Laurel Bay Military Housing Area Marine Corps Air Station Beaufort Beaufort, South Carolina

Constituent	SCDHEC RBSLs (1)	Site-Specific Groundwater VISLs	Results Samples Collected 12/11/15 and 12/14/15					
	000111011101101101101101101101101101101	(μg/L) <sup>(2)</sup>	MW01 12/11/15	MW02 12/11/15	MW03 12/11/15	MW04 12/14/15		
Volatile Organic Compounds Analyzed by EPA Method 8260B (µg/L)								
Benzene	5	16.24	ND	ND	ND	ND		
Ethylbenzene	700	45.95	5.0	ND	ND	ND		
Naphthalene	25	29.33	36	ND	ND	ND		
Toluene	1000	105,445	ND	0.31	ND	ND		
Xylenes, Total	10,000	2,133	3.3 ND		ND	ND		
Semivolatile Organic Compounds And	alyzed by EPA Method 827	0D (μg/L)						
Benzo(a)anthracene	10	NA	0.065	ND	ND	ND		
Benzo(b)fluoranthene	10	NA	0.034	ND	ND	ND		
Benzo(k)fluoranthene	10	NA	ND	ND	ND	ND		
Chrysene	10	NA	0.079	ND	ND	ND		
Dibenz(a,h)anthracene	10	NA	ND	ND	ND	ND		

#### Notes:

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 D.

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

 $\mu g/L$  - micrograms per liter

<sup>(1)</sup> South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 3.0 (SCDHEC, May 2015).

<sup>&</sup>lt;sup>(2)</sup> 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 <sup>-6</sup>, 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.

#### Laboratory Analytical Results - Long Term Monitoring 57 Banyan Drive (Formerly 119 Banyan Drive) Laurel Bay Military Housing Area Marine Corps Air Station Beaufort Beaufort, South Carolina

Constituent		Benzene	Ethylbenzene	Naphthalene	Toluene	Xylenes	Benzo(a) anthracene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene
SCDHEC RBSLs (1) (µg/	L)	5	700	25	1000	10,000	10	10	10	10	10
Site-Specific Groundwa	ater VISLs <sup>(2)</sup> (µg/L)	16.24	45.95	29.33	105,445	2,133	N/A	N/A	N/A	N/A	N/A
Well ID	Sample Date										
	12/11/2015	ND	5.0	36	ND	3.3	0.065	0.034	ND	0.079	ND
DEAL D110MW01	7/28/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BEALB119MW01	6/14/2017	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND
	1/23/2018	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA
	12/11/2015	ND	ND	ND	0.31	ND	ND	ND	ND	ND	ND
DEAL D110MW02	7/28/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BEALB119MW02	6/13/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1/23/2018	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA
	12/11/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DEAL D110MW02	7/28/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BEALB119MW03	6/13/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1/23/2018	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA
	12/14/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DEAL D110MW04	7/28/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BEALB119MW04	6/13/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1/23/2018	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA

#### Notes:

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.

JE - Johnson & Ettinger

N/A - not applicable

NA - not analyzed

ND - not detected at the reporting limit (or method detection limit if shown on the laboratory report). A comprehensive table of the historical groundwater analytical results for all permanent monitoring wells at the site through 2018 is presented in Appendix E.

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

μg/L - micrograms per liter

<sup>(1)</sup> 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).

<sup>(2)</sup> 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<sup>-6</sup>, 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.

## Laboratory Analytical Results - Vapor 57 Banyan Drive (Formerly 119 Banyan Drive) Laurel Bay Military Housing Area Marine Corps Air Station Beaufort

Beaufort, South Carolina

Constituent	USEPA VISL (1)	Soil Gas Results Sample Collected 05/08/17
<b>Volatile Organic Compounds Analyze</b>	d by USEPA Method TO-15	(μg/m³)
Benzene	12	ND
Toluene	17000	1.4
Ethylbenzene	37	ND
m,p-Xylenes	350	ND
o-Xylene	350	ND
Naphthalene	2.8	1.4

#### **Notes:**

VISLs are based on a residual exposure scenario and a target risk level of  $1x10^{-6}$  and a hazard quotient of 0.1. Bold font indicates the analyte was detected.

Bold font and shading indicates the concentration exceeds the residential VISL.

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

RBSL - Risk-Based Screening Level

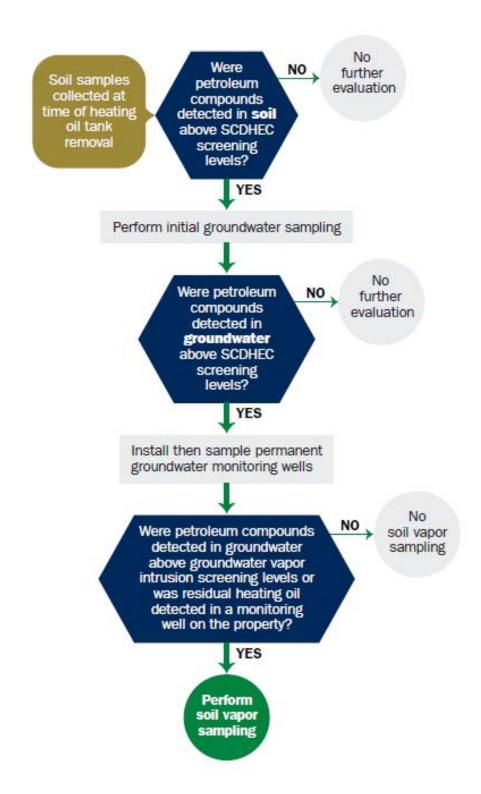
μg/m<sup>3</sup> - micrograms per cubic meter

USEPA - United States Environmental Protection Agency

<sup>(1)</sup> United States Environmental Protection Agency Exterior Soil Gas Vapor Intrusion Screening Level (VISL) from VISL Calculator (May 2018).

# Appendix A Multi-Media Selection Process for LBMH





**Appendix A - Multi-Media Selection Process for LBMH** 

# Appendix B UST Assessment Report



0475

Attachment 1

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

Date Received

State Use Only

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

APR 2 4 2009

SITE ASSESSMENT, REMEDIATION & REVITALIZATION

I. OWNERSHIP OF UST (S)

	mmanding Officer Attn: N	REAO (Craig Ehde)
	, Individual, Public Agency, Other)	
P.O. Box 55001		
Mailing Address Beaufort,	South Carolina	29904-5001
City	State	Zip Code
843	228-7317	Craig Ehde
Area Code	Telephone Number	Contact Person

# II. SITE IDENTIFICATION AND LOCATION

Permit I.D. #								
Laurel 1	Bay Military	Housing Area,	Marin	e Corps	Air	Station,	Beaufort,	SC
Facility Nan	ne or Company Sit	e Identifier			1 1 1		6.00	
Laurel	Bay Military	Housing Area,	119	Banyan	Stre	et		
Street Addre	ss or State Road (a	as applicable)						
Beaufor	t,	Beaufort						
City		County						

Attachment 2

# III. INSURANCE INFORMATION

Insuranc	ce Statement
qualify to receive state monies to pay for appropriate s	on of the existence or non-existence of an environmental
Is there now, or has there ever been an insurance UST release? YES NO (check on	ce policy or other financial mechanism that covers this e)
If you answered YES to the above ques	tion, 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	de a copy of the policy with this report.
IV. REQUEST	FOR SUPERB FUNDING
I <b>DO</b> / DO <b>NOT</b> wish to participate in the S	UPERB Program. (Circle one.)
V. CERTIFICATION	(To be signed by the UST owner)
I certify that I have personally examined and am attached documents; and that based on my inqui information, I believe that the submitted information	familiar with the information submitted in this and all iry of those individuals responsible for obtaining this on 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	South Carolina

Tank 1 119Ba	Tank 2 nyan	Tank 3	Tank 4	Tank 5	Tank 6
heati	ng				
oil					
280					
gal		<u> </u>			
1950s	<u> </u>	<u> </u>			
steel					
mid					
1980s					
5'8"					
No					
	<u> </u>	<del> </del>	<u> </u>		
No					
1.0					
Pemov	Da				
	<del>†</del>			<u> </u>	
2/1//	<b>W</b> 9				
Ves					
105					
Yes					
				<u></u>	
					_
<del> </del>	_=		a Sub	title	
waste i	шаптте	SC.			
	oil 280 gal Late 1950s steel mid 1980s 5'8" No No Remov 2/17/ Yes Yes	280 gal Late 1950s steel mid 1980s 5'8" No No No Removed 2/17/09 Yes Yes the ground (attach did, and disposed	oil 280 gal Late 1950s  steel mid 1980s  5'8"  No No Removed 2/17/09 Yes  Yes  the ground (attach disposal m	oil 280 gal Late 1950s  steel mid 1980s  5'8"  No No Removed 2/17/09 Yes  Yes  the ground (attach disposal manifests) d, and disposed of at a Sub	oil 280 gal Late 1950s  steel mid 1980s  5'8"  No No Removed 2/17/09 Yes Yes  the ground (attach disposal manifests) d, and disposed of at a Subtitle

# VII. PIPING INFORMATION

		Tank 1 119Ba	Tank 2 nyan	Tank 3	Tank 4	Tank 5	Tank 6
	Construction Material(ex. Steel, FRP)	Steel /coppe	er				
	Distance from UST to Dispenser	N/A					
	Number of Dispensers						
		N/A					
•	Type of System Pressure or Suction	Sucti	on				
1	Was Piping Removed from the Ground? Y/N	Yes					
	Visible Corrosion or Pitting Y/N	res				<u> </u>	
		Yes		<u> </u>			
•	Visible Holes Y/N	No					
ł	Age	Early					
	VIII. BRIEF SITE DESCRIE	TION	AND U	пстоі	) V		
	The USTs at the residences are con					steel	
		r heat	ing. S	These 1	USTs w	ere	
	and formerly contained fuel oil fo						
-	and formerly contained fuel oil for installed in the late 1950s and la	st use	ed in t	the mid	d 1980	s.	
		ist use	ed in t	the mid	d 1980	s.	
-		ist use	ed in t	the mic	d 1980	s.	
		ist use	ed in t	the mid	d 1980	s.	

# IX. 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>		Х	
<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>		Х	
C. Was water present in the UST excavation, soil borings, or trenches?  If yes, how far below land surface (indicate location and depth)?		х	
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:		х	
<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>		х	

# X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 96012001

В.

Collection   Soil   Clay   S   8   2/17/09   S. Pra   1425 hrs   Soil   Clay   S   8   2/17/09   S. Pra   1425 hrs   S   S   S   S   S   S   S   S   S	····			77.00					В.
1 fill end 1425 hrs 2 3 4 4 5 5 5 6 7 7 8 8 9 9 10 11 1 1 12 13 14 15 16 16 17	oVA#		Collection	Depth*	Soil Type (Sand/Clay)	(Soil/Water)			
2       3         3       4         5       6         7       8         9       0         10       0         11       0         12       0         13       0         14       0         15       0         16       0         17       0	tt	S. Pratt		5'8"	Clay	Soil	Excav at	Banyan	11
3       4         5       6         7       8         9       9         10       11         12       13         14       15         16       17			1425 hrs				fill end	1	
4       5         6       7         8       9         10       11         12       13         14       15         16       17								2	
5         6         7         8         9         10         11         12         13         14         15         16         17								3	
6 7 8 9 10 11 12 13 14 15 16 16 17								4	
7       8         9       10         11       11         12       13         14       15         16       17								5	
8       9       10       11       12       13       14       15       16       17								6	
9 10 11 12 13 14 15 16 17								7	
10       11       12       13       14       15       16       17								8	
11       12       13       14       15       16       17								9	
12       13       14       15       16       17								10	
13 14 15 16 17								11	
14       15       16       17								12	
15 16 17								13	
16       17								14	
17								15	
								16	
10								17	
	,							18	į
19				_				19	
20								20	

<sup>\* =</sup> 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, Inc. until they were transferred to Test America
Incorporated for analysis as documented in the Chain of Custody Record.

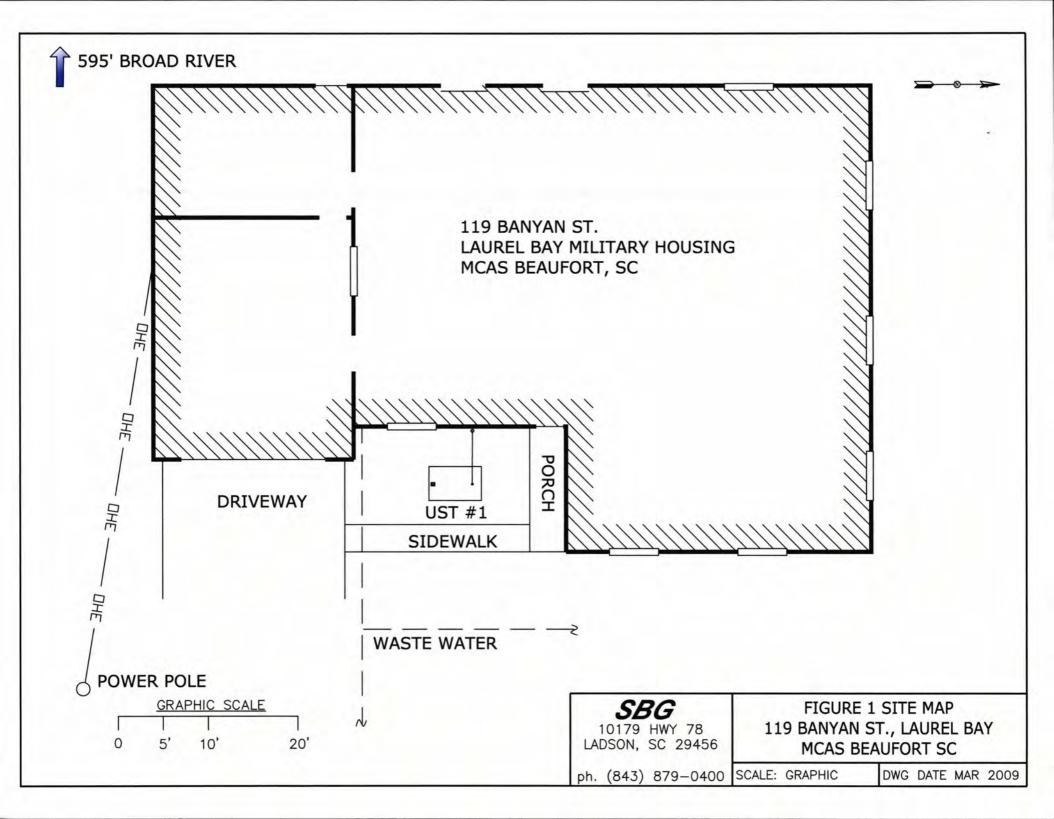
# XII. RECEPTORS

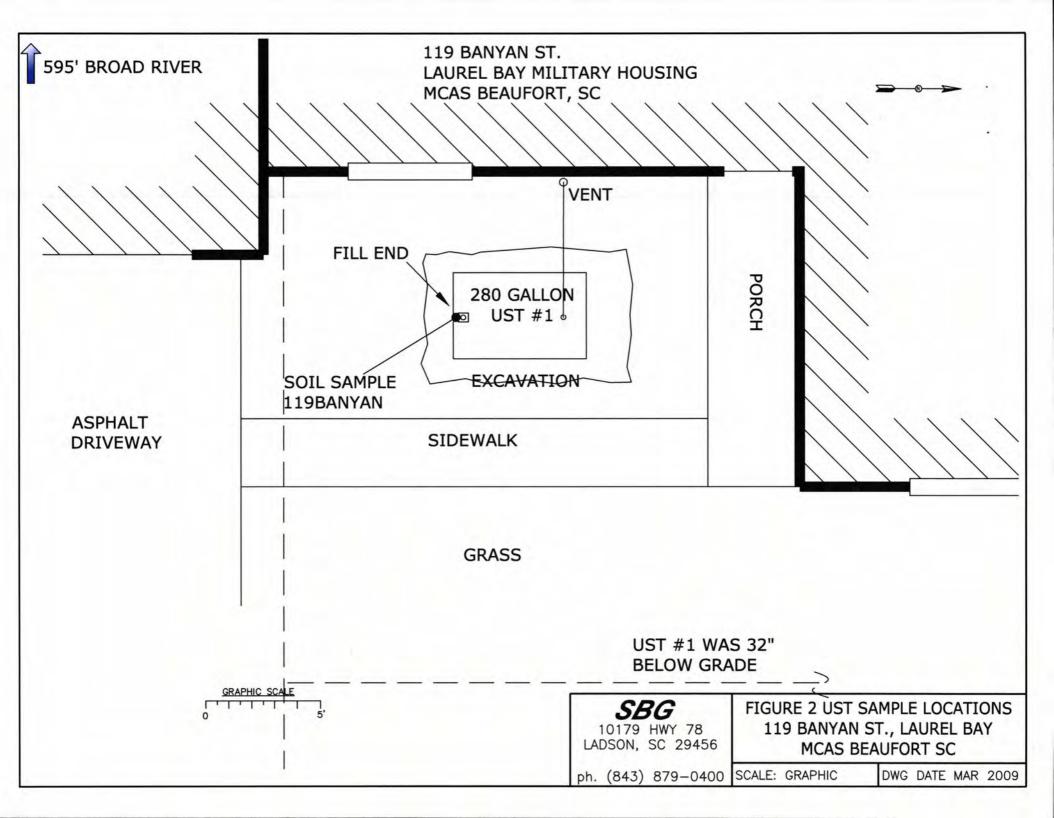
		Yes	No
A.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?	х	
	If yes, indicate type of receptor, distance, and direction on site map.		
B.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?		х
	If yes, indicate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







Picture 1: 119 Banyan St. site prior to tank removal.



Picture 2: UST 119 Banyon during removal.

UST Assessment Report for 119 Banyan St., Laurel Bay Military Housing, MCAS Beaufort, SC

# 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.

	T 1			1	<del></del>	1		7
СоС	119ban SB-1	yan SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8
Benzene	ND							
Toluene	0.0035	5 mg/k	g					
Ethylbenzene	0.168	mg/kg						
Xylenes	0.198	mg/kg						
Naphthalene	4.99 m	g/kg						
Benzo (a) anthracene	ND							
Benzo (b) fluoranthene	ND							
Benzo (k) fluoranthene	ND							
Chrysene	ND							
Dibenz (a, h) anthracene	ND							
	Ĭ					]		
TPH (EPA 3550)						_		
TPH (EPA 3550)								
TPH (EPA 3550)	SB-9	SB-10	SB-11	SB-12	SB-13	SB-14	SB-15	SB-16
	SB-9	SB-10	SB-11	SB-12	SB-13	SB-14	SB-15	SB-16
СоС	SB-9	SB-10	SB-11	SB-12	SB-13	SB-14	SB-15	SB-16
CoC Benzene	SB-9	SB-10	SB-11	SB-12	SB-13	SB-14	SB-15	SB-16
CoC Benzene Toluene	SB-9	SB-10	SB-11	SB-12	SB-13	SB-14	SB-15	SB-16
CoC Benzene Toluene Ethylbenzene	SB-9	SB-10	SB-11	SB-12	SB-13	SB-14	SB-15	SB-16
CoC Benzene Toluene Ethylbenzene Xylenes	SB-9	SB-10	SB-11	SB-12	SB-13	SB-14	SB-15	SB-16
CoC Benzene Toluene Ethylbenzene Xylenes Naphthalene	SB-9	SB-10	SB-11	SB-12	SB-13	SB-14	SB-15	SB-16
CoC Benzene Toluene Ethylbenzene Xylenes Naphthalene Benzo (a) anthracene	SB-9	SB-10	SB-11	SB-12	SB-13	SB-14	SB-15	SB-16
CoC Benzene Toluene Ethylbenzene Xylenes Naphthalene Benzo (a) anthracene Benzo (b) fluoranthene	SB-9	SB-10	SB-11	SB-12	SB-13	SB-14	SB-15	SB-16
CoC Benzene Toluene Ethylbenzene Xylenes Naphthalene Benzo (a) anthracene Benzo (b) fluoranthene Benzo (k) fluoranthene	SB-9	SB-10	SB-11	SB-12	SB-13	SB-14	SB-15	SB-16

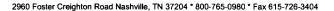
SUMMARY OF ANALYSIS RESULTS (cont'd)
Enter the ground water analytical data for each sample for all CoC in the table below. If free product is present, indicate the measured thickness to the nearest 0.01 feet.

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

#### XV. ANALYTICAL RESULTS

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

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





March 04, 2009

2:28:28PM

Client:

EEG - Env. Enterprise Group (2449)

10179 Highway 78

Ladson, SC 29456

Attn:

Tom McElwee

Work Order:

NSB1765

Project Name:

Laurel Bay Housing Project

Project Nbr: P/O Nbr: Date Received:

[none] 08087 02/20/09

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE AND TIME

115 Banyan-2	NSB1765-01	02/17/09 09:50
119 Banyan	NSB1765-02	02/17/09 14:25
125 Banyan	NSB1765-03	02/18/09 14:50
129 Banyan-1	NSB1765-04	02/19/09 13:40

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.

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.

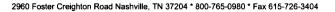
Roxanne L. Connor

This report has been electronically signed.

Report Approved By:

Roxanne Connor

Program Manager - Conventional Accounts





10179 Highway 78 Ladson, SC 29456 Tom McElwee

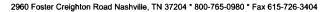
Attn

Work Order: NSB1765

Project Name: Laurel Bay Housing Project

Project Number: [none]
Received: 02/20/09 08:00

		ANABITICALIE					
Analyte	Result	Flag Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSB1765-01 (115 Ban	yan-2 - Soil) San	ipled: 02/17/09 09:50					
General Chemistry Parameters							
% Dry Solids	79.5	%	0.500	1	03/03/09 07:45	SW-846	9030084
Selected Volatile Organic Compounds	by EPA Method 82	260B					
Benzene	ND	mg/kg dry	0.00232	1	02/23/09 16:29	SW846 8260B	9023273
Ethylbenzene	ND	mg/kg dry	0.00232	1	02/23/09 16:29	SW846 8260B	9023273
Naphthalene	0.0232	mg/kg dry	0.00580	1	02/23/09 16:29	SW846 8260B	9023273
Toluene	ND	mg/kg dry	0.00232	1	02/23/09 16:29	SW846 8260B	9023273
Xylenes, total	ND	mg/kg dry	0.00580	1	02/23/09 16:29	SW846 8260B	9023273
Surr: 1,2-Dichloroethane-d4 (41-150%)	100 %				02/23/09 16:29	SW846 8260B	9023273
Surr: Dibromofluoromethane (55-139%)	101 %				02/23/09 16:29	SW846 8260B	9023273
Surr: Toluene-d8 (57-148%)	100 %				02/23/09 16:29	SW846 8260B	9023273
Surr: 4-Bromofluorobenzene (58-150%)	111 %				02/23/09 16:29	SW846 8260B	9023273
Polyaromatic Hydrocarbons by EPA 82	270C						
Acenaphthene	ND	mg/kg dry	0.418	5	03/02/09 13:24	SW846 8270C	9022864
Acenaphthylene	ND	mg/kg dry	0.418	5	03/02/09 13:24	SW846 8270C	9022864
Anthracene	ND	mg/kg dry	0.418	5	03/02/09 13:24	SW846 8270C	9022864
Benzo (a) anthracene	ND	mg/kg dry	0.418	5	03/02/09 13:24	SW846 8270C	9022864
Benzo (a) pyrene	ND	mg/kg dry	0.418	5	03/02/09 13:24	SW846 8270C	9022864
Benzo (b) fluoranthene	ND	mg/kg dry	0.418	5	03/02/09 13:24	SW846 8270C	9022864
Benzo (g,h,i) perylene	ND	mg/kg dry	0.418	5	03/02/09 13:24	SW846 8270C	9022864
Benzo (k) fluoranthene	ND	mg/kg dry	0.418	5	03/02/09 13:24	SW846 8270C	9022864
Chrysene	ND	mg/kg dry	0.418	5	03/02/09 13:24	SW846 8270C	9022864
Dibenz (a,h) anthracene	ND	mg/kg dry	0.418	5	03/02/09 13:24	SW846 8270C	9022864
Fluoranthene	ND	mg/kg dry	0.418	5	03/02/09 13:24	SW846 8270C	9022864
Fluorene	0.678	mg/kg dry	0.418	5	03/02/09 13:24	SW846 8270C	9022864
Indeno (1,2,3-cd) pyrene	ND	mg/kg dry	0.418	5	03/02/09 13:24	SW846 8270C	9022864
Naphthalene	ND	mg/kg dry	0.418	5	03/02/09 13:24	SW846 8270C	9022864
Phenanthrene	1.52	mg/kg dry	0.418	5	03/02/09 13:24	SW846 8270C	9022864
Pyrene	ND	mg/kg dry	0.418	5	03/02/09 13:24	SW846 8270C	9022864
Surr: Terphenyl-d14 (26-128%)	73 %			-	03/02/09 13:24	SW846 8270C	9022864
Surr: 2-Fluorobiphenyl (19-109%)	73 %				03/02/09 13:24	SW846 8270C	9022864
Surr: Nitrobenzene-d5 (22-104%)	72 %				03/02/09 13:24	SW846 8270C	9022864





EEG - Env. Enterprise Group (2449) Client

> 10179 Highway 78 Ladson, SC 29456 Tom McElwee

Attn

Work Order:

NSB1765 Project Name:

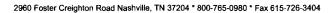
Project Number:

Laurel Bay Housing Project [none]

Received:

02/20/09 08:00

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSB1765-02 (119 Bany	van - Soil) San	npled: 02/	17/09 14:25					
General Chemistry Parameters	, un 5011, 5un	ipica. 02	17709 11120					
% Dry Solids	79.3		%	0.500	1	03/03/09 07:45	SW-846	9030084
Selected Volatile Organic Compounds	by EPA Method	8260B						
Benzene	ND	PX	mg/kg dry	0.00205	1	02/21/09 01:30	SW846 8260B	9022696
Ethylbenzene	0.168		mg/kg dry	0.109	50	02/23/09 18:28	SW846 8260B	9023273
Naphthalene	4.99		mg/kg dry	0.273	50	02/23/09 18:28	SW846 8260B	9023273
Toluene	0.00355	PX	mg/kg dry	0.00205	1	02/21/09 01:30	SW846 8260B	9022696
Xylenes, total	0.198	PX	mg/kg dry	0.00513	1	02/21/09 01:30	SW846 8260B	9022696
Surr: 1,2-Dichloroethane-d4 (41-150%)	106 %	• • • • • • • • • • • • • • • • • • • •		0.00015	•	02/21/09 01:30	SW846 8260B	9022696
Surr: 1,2-Dichloroethane-d4 (41-150%)	100 %					02/23/09 18:28	SW846 8260B	9023273
Surr: Dibromofluoromethane (55-139%)	102 %					02/21/09 01:30	SW846 8260B	9022696
Surr: Dibromofluoromethane (55-139%)	101 %					02/23/09 18:28	SW846 8260B	9023273
Surr: Toluene-d8 (57-148%)	393 %					02/21/09 01:30	SW846 8260B	9022696
Surr: Toluene-d8 (57-148%)	98 %					02/23/09 18:28	SW846 8260B	9023273
Surr: 4-Bromofluorobenzene (58-150%)	256 %					02/21/09 01:30	SW846 8260B	9022696
Surr: 4-Bromofluorobenzene (58-150%)	110 %					02/23/09 18:28	SW846 8260B	9023273
Polyaromatic Hydrocarbons by EPA 82	270C							
Acenaphthene	2.65		mg/kg dry	0.841	10	03/01/09 16:25	SW846 8270C	9022864
Acenaphthylene	ND		mg/kg dry	0.841	10	03/01/09 16:25	SW846 8270C	9022864
Anthracene	ND		mg/kg dry	0.841	10	03/01/09 16:25	SW846 8270C	9022864
Benzo (a) anthracene	ND		mg/kg dry	0.841	10	03/01/09 16:25	SW846 8270C	9022864
Benzo (a) pyrene	ND		mg/kg dry	0.841	10	03/01/09 16:25	SW846 8270C	9022864
Benzo (b) fluoranthene	ND		mg/kg dry	0.841	10	03/01/09 16:25	SW846 8270C	9022864
Benzo (g,h,i) perylene	ND		mg/kg dry	0.841	10	03/01/09 16:25	SW846 8270C	9022864
Benzo (k) fluoranthene	ND		mg/kg dry	0.841	10	03/01/09 16:25	SW846 8270C	9022864
Chrysene	ND		mg/kg dry	0.841	10	03/01/09 16:25	SW846 8270C	9022864
Dibenz (a,h) anthracene	ND		mg/kg dry	0.841	10	03/01/09 16:25	SW846 8270C	9022864
Fluoranthene	1.19		mg/kg dry	0.841	10	03/01/09 16:25	SW846 8270C	9022864
Fluorene	5.92		mg/kg dry	0.841	10	03/01/09 16:25	SW846 8270C	9022864
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.841	10	03/01/09 16:25	SW846 8270C	9022864
Naphthalene	5.58		mg/kg dry	0.841	10	03/01/09 16:25	SW846 8270C	9022864
Phenanthrene	14.1		mg/kg dry	0.841	10	03/01/09 16:25	SW846 8270C	9022864
Pyrene	1.79		mg/kg dry	0.841	10	03/01/09 16:25	SW846 8270C	9022864
•	64 %		mg/kg ury	0.041	10		SW846 8270C	
Surr: Terphenyl-d14 (26-128%) Surr: 2-Fluorobiphenyl (19-109%)	04 % 71 %					03/01/09 16:25 03/01/09 16:25	SW846 8270C SW846 8270C	9022864 9022864
5urr. 2-1 (u0100)pnenyi (13-103/0)	66 %					03/01/09 10:23	511 040 02/0C	7022004





10179 Highway 78 Ladson, SC 29456 Tom McElwee

Attn

Work Order:

NSB1765

Project Name:

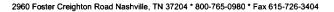
Received:

Laurel Bay Housing Project

Project Number:

[none] 02/20/09 08:00

			EWIET TICHE RE			····		
Analyte	Result	Floo	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Analytt	Result	Flag	Units	WIKE	racioi	Date/Time	Method	Daten
Sample ID: NSB1765-03 (125 Ban	yan - Soil) Sam	pled: 02/	18/09 14:50					
General Chemistry Parameters								
% Dry Solids	79.2		%	0.500	1	03/03/09 07:45	SW-846	9030084
Selected Volatile Organic Compounds	by EPA Method	3260B						
Benzene	ND		mg/kg dry	0.00184	1	02/23/09 16:59	SW846 8260B	9023273
Ethylbenzene	0.00352		mg/kg dry	0.00184	1	02/23/09 16:59	SW846 8260B	9023273
Naphthalene	0.0489		mg/kg dry	0.00459	1	02/23/09 16:59	SW846 8260B	9023273
Toluene	ND		mg/kg dry	0.00184	1	02/23/09 16:59	SW846 8260B	9023273
Xylenes, total	0.00940		mg/kg dry	0.00459	1	02/23/09 16:59	SW846 8260B	9023273
Surr: 1,2-Dichloroethane-d4 (41-150%)	105 %					02/23/09 16:59	SW846 8260B	9023273
Surr: Dibromofluoromethane (55-139%)	108 %					02/23/09 16:59	SW846 8260B	9023273
Surr: Toluene-d8 (57-148%)	123 %					02/23/09 16:59	SW846 8260B	9023273
Surr: 4-Bromofluorobenzene (58-150%)	341 %	ZX				02/23/09 16:59	SW846 8260B	9023273
Polyaromatic Hydrocarbons by EPA 8	270C							
Acenaphthene	1.65		mg/kg dry	0.829	10	03/01/09 16:47	SW846 8270C	9022864
Acenaphthylene	ND		mg/kg dry	0.829	10	03/01/09 16:47	SW846 8270C	9022864
Anthracene	2.17		mg/kg dry	0.829	10	03/01/09 16:47	SW846 8270C	9022864
Benzo (a) anthracene	10.0		mg/kg dry	0.829	10	03/01/09 16:47	SW846 8270C	9022864
Benzo (a) pyrene	5.23		mg/kg dry	0.829	10	03/01/09 16:47	SW846 8270C	9022864
Benzo (b) fluoranthene	6.02		mg/kg dry	0.829	10	03/01/09 16:47	SW846 8270C	9022864
Benzo (g,h,i) perylene	1.59		mg/kg dry	0.829	10	03/01/09 16:47	SW846 8270C	9022864
Benzo (k) fluoranthene	5.27		mg/kg dry	0.829	10	03/01/09 16:47	SW846 8270C	9022864
Chrysene	10.6		mg/kg dry	0.829	10	03/01/09 16:47	SW846 8270C	9022864
Dibenz (a,h) anthracene	ND		mg/kg dry	0.829	10	03/01/09 16:47	SW846 8270C	9022864
Fluoranthene	17.0		mg/kg dry	0.829	10	03/01/09 16:47	SW846 8270C	9022864
Fluorene	2.47		mg/kg dry	0.829	10	03/01/09 16:47	SW846 8270C	9022864
Indeno (1,2,3-cd) pyrene	1.88		mg/kg dry	0.829	10	03/01/09 16:47	SW846 8270C	9022864
Naphthalene	ND		mg/kg dry	0.829	10	03/01/09 16:47	SW846 8270C	9022864
Phenanthrene	7.97		mg/kg dry	0.829	10	03/01/09 16:47	SW846 8270C	9022864
Pyrene	17.4		mg/kg dry	0.829	10	03/01/09 16:47	SW846 8270C	9022864
Surr: Terphenyl-d14 (26-128%)	65 %					03/01/09 16:47	SW846 8270C	9022864
Surr: 2-Fluorobiphenyl (19-109%)	70 %					03/01/09 16:47	SW846 8270C	9022864
Surr: Nitrobenzene-d5 (22-104%)	64 %					03/01/09 16:47	SW846 8270C	9022864





10179 Highway 78 Ladson, SC 29456 Tom McElwee

Attn

Work Order:

NSB1765

Project Name:

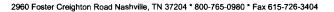
Laurel Bay Housing Project

Project Number: [none]

Received:

02/20/09 08:00

					Dilution	Analysis		
Analyte	Result	Flag	Units	MRL	Factor	Date/Time	Method	Batch
Sample ID: NSB1765-04 (129 Bany	/an-1 - Soil) Sa	mpled: 0	2/19/09 13:40					
General Chemistry Parameters	•	•						
% Dry Solids	73.1		%	0.500	1	03/03/09 07:45	SW-846	9030084
Selected Volatile Organic Compounds	by EPA Method	8260B						
Benzene	ND		mg/kg dry	0.00199	1	02/21/09 02:31	SW846 8260B	9022696
Ethylbenzene	ND		mg/kg dry	0.00199	1	02/21/09 02:31	SW846 8260B	9022696
Naphthalene	ND		mg/kg dry	0.00498	1	02/21/09 02:31	SW846 8260B	9022696
Toluene	ND		mg/kg dry	0.00199	1	02/21/09 02:31	SW846 8260B	9022696
Xylenes, total	ND		mg/kg dry	0.00498	1	02/21/09 02:31	SW846 8260B	9022696
Surr: 1,2-Dichloroethane-d4 (41-150%)	93 %					02/21/09 02:31	SW846 8260B	9022696
Surr: Dibromofluoromethane (55-139%)	94 %					02/21/09 02:31	SW846 8260B	9022696
Surr: Toluene-d8 (57-148%)	107 %					02/21/09 02:31	SW846 8260B	9022696
Surr: 4-Bromofluorobenzene (58-150%)	116 %					02/21/09 02:31	SW846 8260B	9022696
Polyaromatic Hydrocarbons by EPA 82	270C							
Acenaphthene	ND		mg/kg dry	0.0895	1	03/01/09 15:18	SW846 8270C	9022864
Acenaphthylene	ND		mg/kg dry	0.0895	1	03/01/09 15:18	SW846 8270C	9022864
Anthracene	ND		mg/kg dry	0.0895	1	03/01/09 15:18	SW846 8270C	9022864
Benzo (a) anthracene	ND		mg/kg dry	0.0895	1	03/01/09 15:18	SW846 8270C	9022864
Benzo (a) pyrene	ND		mg/kg dry	0.0895	1	03/01/09 15:18	SW846 8270C	9022864
Benzo (b) fluoranthene	ND		mg/kg dry	0.0895	1	03/01/09 15:18	SW846 8270C	9022864
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0895	1	03/01/09 15:18	SW846 8270C	9022864
Benzo (k) fluoranthene	ND		mg/kg dry	0.0895	1	03/01/09 15:18	SW846 8270C	9022864
Chrysene	ND		mg/kg dry	0.0895	1	03/01/09 15:18	SW846 8270C	9022864
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0895	1	03/01/09 15:18	SW846 8270C	9022864
Fluoranthene	ND		mg/kg dry	0.0895	1	03/01/09 15:18	SW846 8270C	9022864
Fluorene	ND		mg/kg dry	0.0895	1	03/01/09 15:18	SW846 8270C	9022864
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0895	1	03/01/09 15:18	SW846 8270C	9022864
Naphthalene	ND		mg/kg dry	0.0895	1	03/01/09 15:18	SW846 8270C	9022864
Phenanthrene	ND		mg/kg dry	0.0895	1	03/01/09 15:18	SW846 8270C	9022864
Pyrene	ND		mg/kg dry	0.0895	1	03/01/09 15:18	SW846 8270C	9022864
Surr: Terphenyl-d14 (26-128%)	37 %		367		-	03/01/09 15:18	SW846 8270C	9022864
Surr: 2-Fluorobiphenyl (19-109%)	46 %					03/01/09 15:18	SW846 8270C	9022864
Surr: Nitrobenzene-d5 (22-104%)	52 %					03/01/09 15:18	SW846 8270C	9022864





10179 Highway 78 Ladson, SC 29456

Tom McElwee

Attn

Work Order: N

NSB1765

Project Name:

Laurel Bay Housing Project

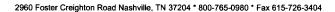
Project Number: [none]

Received:

02/20/09 08:00

#### SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
Polyaromatic Hydrocarbons by EPA	A 8270C						
SW846 8270C	9022864	NSB1765-01	30.24	1.00	02/24/09 12:01	TEM	EPA 3550B
SW846 8270C	9022864	NSB1765-01RE1	30.24	1.00	02/24/09 12:01	TEM	EPA 3550B
SW846 8270C	9022864	NSB1765-02	30.14	1.00	02/24/09 12:01	TEM	EPA 3550B
SW846 8270C	9022864	NSB1765-02RE1	30.14	1.00	02/24/09 12:01	TEM	EPA 3550B
SW846 8270C	9022864	NSB1765-03	30.60	1.00	02/24/09 12:01	TEM	EPA 3550B
SW846 8270C	9022864	NSB1765-03RE1	30.60	1.00	02/24/09 12:01	TEM	EPA 3550B
SW846 8270C	9022864	NSB1765-04	30.72	1.00	02/24/09 12:01	TEM	EPA 3550B
Selected Volatile Organic Compour	nds by EPA Method	8260B					
SW846 8260B	9022696	NSB1765-01	5.59	5.00	02/20/09 15:59	JRL	EPA 5035
SW846 8260B	9023273	NSB1765-01RE1	5.42	5.00	02/17/09 09:50	JRL	EPA 5035
SW846 8260B	9022696	NSB1765-02	6.15	5.00	02/20/09 16:04	JRL	EPA 5035
SW846 8260B	9023273	NSB1765-02RE1	5.78	5.00	02/17/09 14:25	JRL	EPA 5035
SW846 8260B	9022696	NSB1765-03	5.82	5.00	05/20/09 16:06	JRL	EPA 5035
SW846 8260B	9023273	NSB1765-03RE1	6.88	5.00	02/18/09 14:50	JRL	EPA 5035
SW846 8260B	9022696	NSB1765-04	6.87	5.00	02/20/09 16:07	JRL	EPA 5035





10179 Highway 78 Ladson, SC 29456 Tom McElwee

Attn

Work Order:

NSB1765

Project Name:

Laurel Bay Housing Project

Project Number: Received: [none] 02/20/09 08:00

### PROJECT QUALITY CONTROL DATA Blank

Analyte	Blank Value Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time	
Selected Volatile Organic Compo	ounds by EPA Method 8260B					
9022696-BLK1						
Benzene	<0.000670	mg/kg wet	9022696	9022696-BLK1	02/20/09 18:53	
Ethylbenzene	<0.000670	mg/kg wet	9022696	9022696-BLK1	02/20/09 18:53	
Naphthalene	< 0.00151	mg/kg wet	9022696	9022696-BLK1	02/20/09 18:53	
Toluene	<0.000670	mg/kg wet	9022696	9022696-BLK1	02/20/09 18:53	
Xylenes, total	< 0.00172	mg/kg wet	9022696	9022696-BLK1	02/20/09 18:53	
Surrogate: 1,2-Dichloroethane-d4	99%		9022696	9022696-BLK1	02/20/09 18:53	
Surrogate: Dibromofluoromethane	102%		9022696	9022696-BLK1	02/20/09 18:53	
Surrogate: Toluene-d8	99%		9022696	9022696-BLK1	02/20/09 18:53	
Surrogate: 4-Bromofluorobenzene	106%		9022696	9022696-BLK1	02/20/09 18:53	
9023273-BLK1						
Benzene	<0.000670	mg/kg wet	9023273	9023273-BLK1	02/23/09 14:39	
Ethylbenzene	<0.000670	mg/kg wet	9023273	9023273-BLK1	02/23/09 14:39	
Naphthalene	<0.00151	mg/kg wet	9023273	9023273-BLK1	02/23/09 14:39	
Toluene	<0.000670	mg/kg wet	9023273	9023273-BLK1	02/23/09 14:39	
Xylenes, total	< 0.00172	mg/kg wet	9023273	9023273-BLK1	02/23/09 14:39	
Surrogate: 1,2-Dichloroethane-d4	101%		9023273	9023273-BLK1	02/23/09 14:39	
Surrogate: Dibromofluoromethane	104%		9023273	9023273-BLK1	02/23/09 14:39	
Surrogate: Toluene-d8	97%		9023273	9023273-BLK1	02/23/09 14:39	
Surrogate: 4-Bromofluorobenzene	99%		9023273	9023273-BLK1	02/23/09 14:39	
Polyaromatic Hydrocarbons by E	EPA 8270C					
9022864-BLK1						
Acenaphthene	< 0.0310	mg/kg wet	9022864	9022864-BLK1	02/27/09 16:57	
Acenaphthylene	< 0.0320	mg/kg wet	9022864	9022864-BLK1	02/27/09 16:57	
Anthracene	< 0.0330	mg/kg wet	9022864	9022864-BLK1	02/27/09 16:57	
Benzo (a) anthracene	< 0.0380	mg/kg wet	9022864	9022864-BLK1	02/27/09 16:57	
Benzo (a) pyrene	<0.0290	mg/kg wet	9022864	9022864-BLK1	02/27/09 16:57	
Benzo (b) fluoranthene	< 0.0320	mg/kg wet	9022864	9022864-BLK1	02/27/09 16:57	
Benzo (g,h,i) perylene	< 0.0290	mg/kg wet	9022864	9022864-BLK1	02/27/09 16:57	
Benzo (k) fluoranthene	<0.0290	mg/kg wet	9022864	9022864-BLK1	02/27/09 16:57	
Chrysene	< 0.0390	mg/kg wet	9022864	9022864-BLK1	02/27/09 16:57	
Dibenz (a,h) anthracene	< 0.0310	mg/kg wet	9022864	9022864-BLK1	02/27/09 16:57	
Fluoranthene	< 0.0340	mg/kg wet	9022864	9022864-BLK1	02/27/09 16:57	
Fluorene	< 0.0390	mg/kg wet	9022864	9022864-BLK1	02/27/09 16:57	
Indeno (1,2,3-cd) pyrene	< 0.0310	mg/kg wet	9022864	9022864-BLK1	02/27/09 16:57	
Naphthalene	<0.0410	mg/kg wet	9022864	9022864-BLK1	02/27/09 16:57	
•	<0.0340	mg/kg wet	9022864	9022864-BLK1	02/27/09 16:57	
Phenanthrene						
Phenanthrene Pyrene	<0.0410	mg/kg wet	9022864	9022864-BLK1	02/27/09 16:57	
	<0.0410 <0.0320	mg/kg wet mg/kg wet	9022864 9022864	9022864-BLK1 9022864-BLK1	02/27/09 16:57 02/27/09 16:57	



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

EEG - Env. Enterprise Group (2449) Client

10179 Highway 78 Ladson, SC 29456 Tom McElwee

Attn

Work Order:

NSB1765

Project Name:

Laurel Bay Housing Project

Project Number:

[none] 02/20/09 08:00 Received:

#### PROJECT QUALITY CONTROL DATA Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time	
Polyaromatic Hydrocarbons by EPA	8270C						
9022864-BLK1							
Surrogate: Terphenyl-d14	52%			9022864	9022864-BLK1	02/27/09 16:57	
Surrogate: 2-Fluorobiphenyl	55%			9022864	9022864-BLK1	02/27/09 16:57	
Surrogate: Nitrobenzene-d5	56%			9022864	9022864-BLK1	02/27/09 16:57	



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

Client EEG - Env. Enterprise Group (2449)

10179 Highway 78 Ladson, SC 29456 Tom McElwee

Attn

Work Order: NSB1765

Project Name: L

Laurel Bay Housing Project

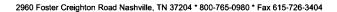
Project Number: [none]

Received: 02/20/09 08:00

#### PROJECT QUALITY CONTROL DATA

#### Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
General Chemistry Parameters									
9030084-DUP1									
% Dry Solids	89.6	87.9		%	2	20	9030084	NSB1594-03	03/03/09 07:45





10179 Highway 78 Ladson, SC 29456 Tom McElwee

Attn

Work Order: NSB1765

Project Name: Laurel Bay Housing Project

Project Number: [none]

Received: 02/20/09 08:00

## PROJECT QUALITY CONTROL DATA LCS

Analyte	Known Val.	Analyzed Val Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Selected Volatile Organic Compou	nds by EPA Method 820	50B					
9022696-BS1	•						
Benzene	50.0	46.7	ug/kg	93%	76 - 130	9022696	02/20/09 16:51
Ethylbenzene	50.0	45.5	ug/kg	91%	80 - 128	9022696	02/20/09 16:51
Naphthalene	50.0	37.2	ug/kg	74%	63 - 144	9022696	02/20/09 16:51
Toluene	50.0	42.9	ug/kg	86%	80 - 125	9022696	02/20/09 16:51
Xylenes, total	150	132	ug/kg	88%	79 - 130	9022696	02/20/09 16:51
Surrogate: 1,2-Dichloroethane-d4	50.0	49.7		99%	41 - 150	9022696	02/20/09 16:51
Surrogate: Dibromofluoromethane	50.0	52.4		105%	55 - 139	9022696	02/20/09 16:51
Surrogate: Toluene-d8	50.0	50.8		102%	57 - 148	9022696	02/20/09 16:51
Surrogate: 4-Bromofluorobenzene	50.0	48.0		96%	58 - 150	9022696	02/20/09 16:51
9023273-BS1							
Benzene	50.0	58.9	ug/kg	118%	76 - 130	9023273	02/23/09 12:39
Ethylbenzene	50.0	54.4	ug/kg	109%	80 - 128	9023273	02/23/09 12:39
Naphthalene	50.0	60.3	ug/kg	121%	63 - 144	9023273	02/23/09 12:39
Toluene	50.0	53.8	ug/kg	108%	80 - 125	9023273	02/23/09 12:39
Xylenes, total	150	163	ug/kg	109%	79 - 130	9023273	02/23/09 12:39
Surrogate: 1,2-Dichloroethane-d4	50.0	49.8		100%	41 - 150	9023273	02/23/09 12:39
Surrogate: Dibromofluoromethane	50.0	52.2		104%	55 - 139	9023273	02/23/09 12:39
Surrogate: Toluene-d8	50.0	49.5		99%	57 - 148	9023273	02/23/09 12:39
Surrogate: 4-Bromofluorobenzene	50.0	49.7		99%	58 - 150	9023273	02/23/09 12:39
Polyaromatic Hydrocarbons by EP	PA 8270C						
9022864-BS1							
Acenaphthene	1.67	1.03	mg/kg wet	62%	52 - 106	9022864	02/27/09 17:26
Acenaphthylene	1.67	1.03	mg/kg wet	62%	53 - 109	9022864	02/27/09 17:26
Anthracene	1.67	1.20	mg/kg wet	72%	54 - 124	9022864	02/27/09 17:26
Benzo (a) anthracene	1.67	1.13	mg/kg wet	68%	53 - 111	9022864	02/27/09 17:26
Benzo (a) pyrene	1.67	1.18	mg/kg wet	71%	52 - 122	9022864	02/27/09 17:26
Benzo (b) fluoranthene	1.67	1.16	mg/kg wet	70%	48 - 115	9022864	02/27/09 17:26
Benzo (g,h,i) perylene	1.67	1.07	mg/kg wet	64%	46 - 114	9022864	02/27/09 17:26
Benzo (k) fluoranthene	1.67	1.13	mg/kg wet	68%	41 - 121	9022864	02/27/09 17:26
Chrysene	1.67	1.12	mg/kg wet	67%	49 - 113	9022864	02/27/09 17:26
Dibenz (a,h) anthracene	1.67	1.13	mg/kg wet	68%	47 - 117	9022864	02/27/09 17:26
Fluoranthene	1.67	1.16	mg/kg wet	70%	52 - 113	9022864	02/27/09 17:26
Fluorene	1.67	1.08	mg/kg wet	65%	54 - 107	9022864	02/27/09 17:26
Indeno (1,2,3-cd) pyrene	1.67	1.12	mg/kg wet	67%	47 - 115	9022864	02/27/09 17:26
Naphthalene	1.67	1.04	mg/kg wet	63%	34 - 107	9022864	02/27/09 17:26
Phenanthrene	1.67	1.09	mg/kg wet	65%	53 - 108	9022864	02/27/09 17:26
Pyrene	1.67	1.11	mg/kg wet	67%	54 - 113	9022864	02/27/09 17:26
1-Methylnaphthalene	1.67	1.02	mg/kg wet	61%	36 - 100	9022864	02/27/09 17:26
2-Methylnaphthalene	1.67	1.05	mg/kg wet	63%	42 - 112	9022864	02/27/09 17:26



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

Client EEG - Env. Enterprise Group (2449)

10179 Highway 78 Ladson, SC 29456

Tom McElwee

Attn

Work Order:

NSB1765

Project Name:

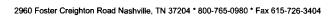
Laurel Bay Housing Project

Project Number: [none]

Received: 02/20/09 08:00

## PROJECT QUALITY CONTROL DATA LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Polyaromatic Hydrocarbons by E	EPA 8270C							
9022864-BS1								
Surrogate: Terphenyl-d14	1.67	0.883			53%	26 - 128	9022864	02/27/09 17:26
Surrogate: 2-Fluorobiphenyl	1.67	0.818			49%	19 - 109	9022864	02/27/09 17:26
Surrogate: Nitrobenzene-d5	1.67	0.796			48%	22 - 104	9022864	02/27/09 17:26





10179 Highway 78 Ladson, SC 29456 Tom McElwee

Attn

Work Order:

NSB1765

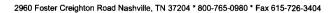
Project Name:

Laurel Bay Housing Project

Project Number: [none]
Received: 02/20/09 08:00

## PROJECT QUALITY CONTROL DATA LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Selected Volatile Organic Comp	ounds by EPA	Method 82	60B									
9022696-BSD1												
Benzene		50.9		ug/kg	50.0	102%	76 - 130	9	43	9022696		02/20/09 17:21
Ethylbenzene		49.4		ug/kg	50.0	99%	80 - 128	8	48	9022696		02/20/09 17:21
Naphthalene		40.8		ug/kg	50.0	82%	63 - 144	9	50	9022696		02/20/09 17:21
Toluene		46.5		ug/kg	50.0	93%	80 - 125	8	44	9022696		02/20/09 17:21
Xylenes, total		144		ug/kg	150	96%	79 - 130	9	48	9022696		02/20/09 17:21
Surrogate: 1,2-Dichloroethane-d4		49.7		ug/kg	50.0	99%	41 - 150			9022696		02/20/09 17:21
Surrogate: Dibromofluoromethane		51.8		ug/kg	50.0	104%	55 - 139			9022696		02/20/09 17:21
Surrogate: Toluene-d8		50.9		ug/kg	50.0	102%	57 - 148			9022696		02/20/09 17:21
Surrogate: 4-Bromofluorobenzene		47.5		ug/kg	50.0	95%	58 - 150			9022696		02/20/09 17:21
9023273-BSD1												
Benzene		59.7		ug/kg	50.0	119%	76 - 130	1	43	9023273		02/23/09 13:09
Ethylbenzene		55.1		ug/kg	50.0	110%	80 - 128	1	48	9023273		02/23/09 13:09
Naphthalene		59.8		ug/kg	50.0	120%	63 - 144	0.9	50	9023273		02/23/09 13:09
Toluene		54.4		ug/kg	50.0	109%	80 - 125	1	44	9023273		02/23/09 13:09
Xylenes, total		165		ug/kg	150	110%	79 - 130	0.9	48	9023273		02/23/09 13:09
Surrogate: 1,2-Dichloroethane-d4		51.8		ug/kg	50.0	104%	41 - 150			9023273		02/23/09 13:09
Surrogate: Dibromofluoromethane		53.4		ug/kg	50.0	107%	55 - 139			9023273		02/23/09 13:09
Surrogate: Toluene-d8		50.2		ug/kg	50.0	100%	57 - 148			9023273		02/23/09 13:09
Surrogate: 4-Bromofluorobenzene		49.6		ug/kg	50.0	99%	58 - 150			9023273		02/23/09 13:09





10179 Highway 78 Ladson, SC 29456 Tom McElwee

Attn

Work Order:

NSB1765

Project Name:

Laurel Bay Housing Project

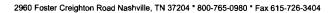
Project Number:

[none]

Received: 02/20/09 08:00

## PROJECT QUALITY CONTROL DATA Matrix Spike

Analyte	Orig. Val.	MS Val	Q Unit		% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Selected Volatile Organic Compou	inds by EPA Met	thod 8260B							
9022696-MS1									
Benzene	44.8	63.6	ug/k	g 50.0	38%	33 - 146	9022696	NSB1670-06	02/21/09 03:01
Ethylbenzene	5.21	34.4	ug/k	g 50.0	58%	16 - 160	9022696	NSB1670-06	02/21/09 03:01
Naphthalene	10.2	19.0	ug/k	g 50.0	17%	10 - 151	9022696	NSB1670-06	02/21/09 03:01
Toluene	5.72	30.2	ug/k	g 50.0	49%	30 - 145	9022696	NSB1670-06	02/21/09 03:01
Xylenes, total	7.99	86.6	ug/k	g 150	52%	16 - 159	9022696	NSB1670-06	02/21/09 03:01
Surrogate: 1,2-Dichloroethane-d4		50.2	ug/k	g 50.0	100%	41 - 150	9022696	NSB1670-06	02/21/09 03:01
Surrogate: Dibromofluoromethane		50.0	ug/k	g 50.0	100%	55 - 139	9022696	NSB1670-06	02/21/09 03:01
Surrogate: Toluene-d8		51.8	ug/k	g 50.0	104%	57 - 148	9022696	NSB1670-06	02/21/09 03:01
Surrogate: 4-Bromofluorobenzene		56.2	ug/k	g 50.0	112%	58 - 150	9022696	NSB1670-06	02/21/09 03:01
9023273-MS1									
Benzene	ND	1.84	mg/kg	wet 1.66	111%	33 - 146	9023273	NSB1787-02RE 1	02/23/09 22:27
Ethylbenzene	ND	1.71	mg/kg	wet 1.66	104%	16 - 160	9023273	NSB1787-02RE 1	02/23/09 22:27
Naphthalene	ND	1.69	mg/kg	wet 1.66	102%	10 - 151	9023273	NSB1787-02RE 1	02/23/09 22:27
Toluene	ND	1.68	mg/kg	wet 1.66	101%	30 - 145	9023273	NSB1787-02RE 1	02/23/09 22:27
Xylenes, total	ND	5.14	mg/kg	wet 4.97	104%	16 - 159	9023273	NSB1787-02RE 1	02/23/09 22:27
Surrogate: 1,2-Dichloroethane-d4		47.8	ug/k	50.0	96%	41 - 150	9023273	NSB1787-02RE 1	02/23/09 22:27
Surrogate: Dibromofluoromethane		50.7	ug/k	g 50.0	101%	55 - 139	9023273	NSB1787-02RE	02/23/09 22:27
Surrogate: Toluene-d8		48.9	ug/k	g 50.0	98%	57 - 148	9023273	NSB1787-02RE	02/23/09 22:27
Surrogate: 4-Bromofluorobenzene		50.1	ug/k	g 50.0	100%	58 - 150	9023273	NSB1787-02RE	02/23/09 22:27





10179 Highway 78 Ladson, SC 29456 Tom McElwee

Attn

Work Order:

NSB1765

Project Name:

Laurel Bay Housing Project

Project Number: [none] Received:

02/20/09 08:00

#### PROJECT QUALITY CONTROL DATA **Matrix Spike Dup**

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Selected Volatile Organic Compoun	ds by EPA	Method 826	0B									
9022696-MSD1												
Benzene	44.8	76.1		ug/kg	50.0	63%	33 - 146	18	43	9022696	NSB1670-06	02/21/09 03:32
Ethylbenzene	5.21	40.0		ug/kg	50.0	70%	16 - 160	15	48	9022696	NSB1670-06	02/21/09 03:32
Naphthalene	10.2	23.6		ug/kg	50.0	27%	10 - 151	22	50	9022696	NSB1670-06	02/21/09 03:32
Toluene	5.72	35.8		ug/kg	50.0	60%	30 - 145	17	44	9022696	NSB1670-06	02/21/09 03:32
Xylenes, total	7.99	104		ug/kg	150	64%	16 - 159	18	48	9022696	NSB1670-06	02/21/09 03:32
Surrogate: 1,2-Dichloroethane-d4		50.9		ug/kg	50.0	102%	41 - 150			9022696	NSB1670-06	02/21/09 03:32
Surrogate: Dibromofluoromethane		50.6		ug/kg	50.0	101%	55 - 139			9022696	NSB1670-06	02/21/09 03:32
Surrogate: Toluene-d8		51.6		ug/kg	50.0	103%	57 - 148			9022696	NSB1670-06	02/21/09 03:32
Surrogate: 4-Bromofluorobenzene		53.9		ug/kg	50.0	108%	58 - 150			9022696	NSB1670-06	02/21/09 03:32
9023273-MSD1												
Benzene	ND	1.95		mg/kg wet	1.66	118%	33 - 146	6	43	9023273	NSB1787-02RE	02/23/09 22:57
Ethylbenzene	ND	1.84		mg/kg wet	1.66	111%	16 - 160	7	48	9023273	NSB1787-02RE	02/23/09 22:57
Naphthalene	ND	1.90		mg/kg wet	1.66	115%	10 - 151	11	50	9023273	NSB1787-02RE	02/23/09 22:57
Toluene	ND	1.77		mg/kg wet	1.66	107%	30 - 145	5	44	9023273	1 NSB1787-02RE	02/23/09 22:57
Xylenes, total	ND	5.53		mg/kg wet	4.97	111%	16 - 159	7	48	9023273	1 NSB1787-02RE	02/23/09 22:57
Surrogate: 1,2-Dichloroethane-d4		49.0		ug/kg	50.0	98%	41 - 150			9023273	NSB1787-02RE	02/23/09 22:57
Surrogate: Dibromofluoromethane		50.1		ug/kg	50.0	100%	55 - 139			9023273	l NSB1787-02RE	02/23/09 22:57
Surrogate: Toluene-d8		49.1		ug/kg	50.0	98%	57 - 148			9023273	1 NSB1787-02RE	02/23/09 22:57
Surrogate: 4-Bromofluorobenzene		49.8		ug/kg	50.0	100%	58 - 150			9023273	l NSB1787-02RE	02/23/09 22:57



THE LEADER IN ENVIRONMENTAL TESTING

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

Client EEG - Env. Enterprise Group (2449)

10179 Highway 78 Ladson, SC 29456

Tom McElwee

Work Order:

NSB1765

Project Name:

Laurel Bay Housing Project

Project Number: Received:

[none] 02/20/09 08:00

#### **CERTIFICATION SUMMARY**

#### TestAmerica Nashville

Attn

Method	Matrix		AIHA	Nelac	South Carolina	
SW846 8260B	Soil		N/A	X	X	
SW846 8270C	Soil		N/A	X	X	
SW-846	Soil					



#### THE LEADER IN ENVIRONMENTAL TESTING

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

Client EEG - Env. Enterprise Group (2449)

10179 Highway 78 Ladson, SC 29456

Tom McElwee

Attn

Work Order:

NSB1765

Project Name:

Laurel Bay Housing Project

Project Number: [none]

Received:

02/20/09 08:00

#### **DATA QUALIFIERS AND DEFINITIONS**

**PX** Sample for VOA analysis not received in preserved VOA vials or Encore or similar sampling device.

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

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

#### METHOD MODIFICATION NOTES

### NSB1765

03/06/09 23:59

DE SEABER IN ENVIRONMENTA		Nashville 2960 Fos Nashville	ter Cre	ighto	on			Ť	oll F	ree: (	B00-7	726-0 765-0 726-3	980							metho	ods, is		rk bein	roper a g condu				
Client Name/Account #:			,																	•	•			ance M	onitorin	g?	Yes_	 No
	10179 Highway	78														_							Enfon	cement	Action	?	Yes _	 No
City/State/Zip:	Ladson, SC 29	456																Site	State									 
Project Manager:	Tom McElwee	email: mcelv	v <b>ев</b> @ее	eginc.	net										_	_			PO#		<u> 28</u>	08	7					
Telephone Number:						. F	ax N	o.:	8	13		87	<u>9 ·</u>			_		TA Q	uote #									 
Sampler Name; (Print)	PAR	H 5	hA	w_														Proj	ect ID:	Laure	Bay F	iousing	Projec	<u> </u>				
Sampler Signature:	- HP	<u> </u>						$\sim$										Pro	ect #:									 
					т.	_		72	Prese	rvativ	e T				Matr	tx		-			1	A	nalyze	For:	T	T	T T	7
Sample ID / Description  1/5 BANYAN - 2  1/9 BANYAN  1/25 BANYAN  1/29 BANYAN -1	2/7/09 2/7/09 2/7/09 2/19/09	0950 1425 1461 1340	9 9 9 No. of Containers Shippe	T X X	Composite	Field Filtered	loe l		NeCH (Orange Label)	H <sub>2</sub> SO <sub>4</sub> Piastic (Yelfow Lebel)				Wastewater	Drinking Water	actions of the second of the s		2 C & BTEX + Napth - 8260	2 2 PAH - 8270C					NS	817	65-	01 02 03 04	RUSH TAT (Pre-Schedu
		ļ	├	<u> </u>	_		$\sqcup$	4	-	$\sqcup$	4	4	Ц		4	4	$\bot$				<u> </u>		-		-	_	$\bot$	 <u> </u>
Special Instructions:	<u> </u>	1	19	100	1	<u> </u>	Meth	nod o	of Ship	omen	 nt:	<u> </u>	IJ			<u> </u>	EDE	<b>L</b>	l	Labor	Temp		Upon	Receip		·5.		Y
Relinquished by:	2//9/	109	19	Of A	e	ived b		=2	E	1					Date	•		Tim						,				
Relinquished by:	/ Cat	e 	Tir	ne		ived b	_	tAme	rica:	·				26	Date O · C			Tim	-									 

ATTACHMENT A



## **NON-HAZARDOUS MANIFEST**

CMAN

	11. Generator's US EPA ID N	io.	Manifest				·
	NON-HAZARDOUS MANIFEST	21 6 16 A 10 BOOK	cument No	2. Pag			
	3. Generator's Name and Mailing Address  ACAS, Reputers  Laurel Bay Housing  Feautort SC 20004	1342 100 V			fest Number	in the second	
	Laurel Bay Housing Reautort SC 29004				Generator's ID		
	4. Generator's Phone	2 22000 -					
	5. Transporter 1 Company Name 6.	US EPA ID Number		C. State	Transporter's ID		·
	EEG, inc.		1 1 1	D. Trans	sporter's Phone.	43 879	-0411
	7. Transporter 2 Company Name 8.	US EPA ID Number	<u></u>	E. State	Transporter's ID		
				F. Trans	sporter's Phone		
	Designated Facility Name and Site Address     10.	US EPA ID Number		G. State	Facility's ID		
	HICKORY HILL LANDFILL			U Cooili	ity's Phone		
	ROUTE 1, BOX 121		1 1 1	n. racii	-	k3 967.	<i>48.</i> 43
Ì	11. Description of Waste Materials	<u> </u>	12. Coi	ntainers	13. Total	14. Unit	l.
			No.	Type	Total Quantity	Unit Wt./Vol.	14' 0
	a Heating Off Tank Med with Sami						
	WM Profile # 19235	5 <b>5</b> C	0,01	1.1	1 1 1 1		
E				+		+	
GENERATOR	b.						
A	WM Profile #		1 , ,	$\perp$	1 1 1 1		
Ř	С.	· · · · · · · · · · · · · · · · · · ·	<del>                                     </del>			+	
	-						
Ì	WM Profile #			111			
	d.	- · · · · · · · · · · · · · · · · · · ·			<del>- 1 <u>-</u>1 - 1</del> - 1		
			l				
	WM Profile #						
	J. Additional Descriptions for Materials Listed Above			K. Dis	sposal Location		
	Landfill Solidification			Cell		Leve	,
	Editorii			0611		Leve	<del>.</del>
١	Bio Remediation			Grid			
Ţ	15. Special Handling Instructions and Additional Information		The state of	Z.9.,9.,			
	- Alexander San Sandara		**************************************	¥ - 1 - 20	- 1 		
	Purchase Order #	FMEDOENOV CONTACT:	46.2	W 1-1 - 2	x ' 44		
ŀ	Tutchase Order #	EMERGENCY CONTACT:		<del></del>	·		
	16. GENERATOR'S CERTIFICATION:		<b>5</b> 001				
	I hereby certify that the above-described materials						
- 1	applicable state law, have been fully and accurate for transportation according to applicable regulation		ea ana	раскас	ged, and are	in prop	per condition
	Printed/Typed Name	Signature "On behalf of"	····				Month Day Year
┽	17. Transporter 1 Acknowledgement of Receipt of Materials	Town the second second	-		The second second		POSQUIQ
A I	Printed/Typed Name	Signature			1-		Month Day Year
S	The state of the state of	Chance 15		والمعاد معامل وال			이러이라다
è [	18. Transporter 2 Acknowledgement of Receipt of Materials	, , , , , , , , , , , , , , , , , , , ,					
TRANSPORTER	Printed/Typed Name	Signature					Month Day Year
-	19. Certificate of Final Treatment/Disposal						
	·	100					,,
F A C	I certify, on behalf of the above listed treatment fac						
ŗΙ	was managed in compliance with all applicable lav	vs, regulations, perm	iiis and	iicense	es on the da	ies iiste	eu above.
֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֓֓֓֓֡֓֓֡֓֓֡֓֡֓֡֡	20. Facitilty Owner or Operator: Certification of receipt of non-hazardous ma	terials covered by this manif	est.				
Ý	Printed/Typed Name	Signature					Month Day Year
				_			

# Appendix C Laboratory Analytical Report - Initial Groundwater



#### Volatile Organic Compounds by GC/MS

Client: AECOM - Resolution Consultants

Description: BEALB119TW01WG20130718

Date Sampled: 07/18/2013 1130

Laboratory ID: OG18009-010

Matrix: Aqueous

Date Received: 07/19/2013

Run Prep Method 1 5030B	Analytical Method 8260B		nalysis Date /26/2013 1706	Analyst JAC	Prep Date	Batch 25956				
Parameter		Nun		alytical ⁄lethod	Result Q	LOQ	LOD	DL	Units	Run
Benzene			-43-2	8260B	ND	0.50	0.25	0.027	ug/L	1
Ethylbenzene		100-	41-4	8260B	7.5	0.50	0.25	0.17	ug/L	1
Naphthalene		91-	-20-3	8260B	58	0.50	0.25	0.12	ug/L	1
Toluene		108-	88-3	8260B	ND	0.50	0.25	0.17	ug/L	1
Xylenes (total)		1330-	-20-7	8260B	8.5	0.50	0.25	0.17	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
1,2-Dichloroethane-d4		96	70-120							
Toluene-d8		103	85-120							
Bromofluorobenzene		102	75-120							
Dibromofluoromethane		97	85-115							

PQL = Practical quantitation limit ND = Not detected at or above the MDL B = Detected in the method blank J = Estimated result < PQL and >\_MDL

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

H = Out of holding time N = Recovery is out of criteria

Q = Surrogate failure L = LCS/LCSD failure S = MS/MSD failure

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#### Semivolatile Organic Compounds by GC/MS

Client: AECOM - Resolution Consultants

Description: BEALB119TW01WG20130718

Laboratory ID: OG18009-010

Matrix: Aqueous

Date Sampled: 07/18/2013 1130 Date Received: 07/19/2013

Run Prep Method Analytical Method Dilution Analysis Date Analyst Prep Date Batch 3520C 8270D 07/22/2013 1527 JRG 07/19/2013 1544

25460

Parameter	CAS Number	,	Result	Q	LOQ	LOD	DL Ur	its Run
Benzo(a)anthracene	56-55-3	8270D	0.11	J	0.21	0.10	0.085 ug	g/L 1
Benzo(b)fluoranthene	205-99-2	8270D	ND		0.21	0.10	0.090 u	g/L 1
Benzo(k)fluoranthene	207-08-9	8270D	ND		0.21	0.10	0.095 u	g/L 1
Chrysene	218-01-9	8270D	ND		0.21	0.10	0.056 u	g/L 1
Dibenzo(a,h)anthracene	53-70-3	8270D	ND		0.21	0.10	0.060 u	g/L 1
Surrogate		eptance ∟imits						
2-Fluorobiphenyl	55 5	50-110						

Surrogate	Q	70 Necovery	LIIIIII
2-Fluorobiphenyl		55	50-110
Nitrobenzene-d5		52	40-110
Terphenyl-d14		72	50-135

PQL = Practical quantitation limit ND = Not detected at or above the MDL B = Detected in the method blank J = Estimated result < PQL and >\_MDL

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

H = Out of holding time N = Recovery is out of criteria

Q = Surrogate failure L = LCS/LCSD failure S = MS/MSD failure

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# Appendix D Laboratory Analytical Reports – Permanent Well Groundwater



#### **Volatile Organic Compounds by GC/MS**

Client: AECOM - Resolution Consultants

Description: BEALB119MW01WG20151211

Laboratory ID: QL11039-004

Matrix: Aqueous

Date Sampled:12/11/2015 1245 Date Received: 12/11/2015

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2015 1355 JM1		92708

Parameter	CAS Number	Analytical Method	Result Q	LOQ	LOD	DL	Units Run
Benzene	71-43-2	8260B	0.45 U	5.0	0.45	0.21	ug/L 1
Ethylbenzene	100-41-4	8260B	5.0	5.0	0.51	0.21	ug/L 1
Naphthalene	91-20-3	8260B	36	5.0	0.96	0.14	ug/L 1
Toluene	108-88-3	8260B	0.48 U	5.0	0.48	0.24	ug/L 1
Xylenes (total)	1330-20-7	8260B	3.3 J	5.0	0.57	0.32	ug/L 1

Surrogate	Run 1 Q % Recovery	Acceptance Limits
Bromofluorobenzene	102	75-120
1,2-Dichloroethane-d4	105	70-120
Toluene-d8	106	85-120
Dibromofluoromethane	109	85-115

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 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" N = Recovery is out of criteria

S = MS/MSD failure

Shealy Environmental Services, Inc.

#### Semivolatile Organic Compounds by GC/MS (SIM)

Client: AECOM - Resolution Consultants

Laboratory ID: QL11039-004

Description: BEALB119MW01WG20151211

Matrix: Aqueous

Date Sampled: 12/11/2015 1245 Date Received: 12/11/2015

Run Prep Method Analytical Method Dilution Analysis Date Analyst Batch **Prep Date** 3520C 8270D (SIM) 12/21/2015 1926 RBH 12/18/2015 0905 92499 1

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units I	Run
Benzo(a)anthracene	56-55-3	8270D (SIM)	0.065	J	0.20	0.040	0.019	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D (SIM)	0.034	J	0.20	0.040	0.019	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D (SIM)	0.040	U	0.20	0.040	0.024	ug/L	1
Chrysene	218-01-9	8270D (SIM)	0.079	J	0.20	0.040	0.021	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D (SIM)	0.080	U	0.20	0.080	0.040	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Methylnaphthalene-d10		69	15-139
Fluoranthene-d10		92	23-154

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 L = LCS/LCSD failure

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

J = Estimated result < PQL and ≥ MDL

N = Recovery is out of criteria

S = MS/MSD failure

#### **Volatile Organic Compounds by GC/MS**

Client: AECOM - Resolution Consultants

Description: BEALB119MW02WG20151211

Laboratory ID: QL11039-003

Date Sampled: 12/11/2015 1015

Matrix: Aqueous

Date Received: 12/11/2015

Run Prep Method Analytical Method Dilution Analysis Date Analyst **Prep Date** Batch 5030B 8260B 12/21/2015 1333 JM1 92708

	CAS	Analytical	•					
Parameter	Number	Method	Result	Q	LOQ	LOD	DL	Units Run
Benzene	71-43-2	8260B	0.45	U	5.0	0.45	0.21	ug/L 1
Ethylbenzene	100-41-4	8260B	0.51	U	5.0	0.51	0.21	ug/L 1
Naphthalene	91-20-3	8260B	0.96	U	5.0	0.96	0.14	ug/L 1
Toluene	108-88-3	8260B	0.31	J	5.0	0.48	0.24	ug/L 1
Xylenes (total)	1330-20-7	8260B	0.57	U	5.0	0.57	0.32	ug/L 1

Surrogate	Run 1 A Q % Recovery	cceptance Limits
Bromofluorobenzene	97	75-120
1,2-Dichloroethane-d4	104	70-120
Toluene-d8	105	85-120
Dibromofluoromethane	105	85-115

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 N = Recovery is out of criteria

Q = Surrogate failure L = LCS/LCSD failure S = MS/MSD failure

J = Estimated result < PQL and ≥ MDL Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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#### Semivolatile Organic Compounds by GC/MS (SIM)

Client: AECOM - Resolution Consultants

Description: BEALB119MW02WG20151211

Laboratory ID: QL11039-003

12/18/2015 0905 92499

Matrix: Aqueous

Date Sampled: 12/11/2015 1015 Date Received: 12/11/2015

3520C

1

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

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units F	Run
Benzo(a)anthracene	56-55-3	8270D (SIM)	0.040	U	0.20	0.040	0.019	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D (SIM)	0.040	U	0.20	0.040	0.019	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D (SIM)	0.040	U	0.20	0.040	0.024	ug/L	1
Chrysene	218-01-9	8270D (SIM)	0.040	U	0.20	0.040	0.021	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D (SIM)	0.080	U	0.20	0.080	0.040	ug/L	1

12/21/2015 1859 RBH

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Methylnaphthalene-d10		63	15-139
Fluoranthene-d10		93	23-154

8270D (SIM)

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

H = Out of holding time

Q = Surrogate failure L = LCS/LCSD failure

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

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#### **Volatile Organic Compounds by GC/MS**

Client: AECOM - Resolution Consultants

Description: BEALB119MW03WG20151211

Laboratory ID: QL11039-001

Date Sampled: 12/11/2015 0915 Date Received: 12/11/2015

Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	1	12/21/2015 1310 JM1	-	92708

	CAS	Analytical							
Parameter	Number	Method	Result	Q	LOQ	LOD	DL	Units Ru	un
Benzene	71-43-2	8260B	0.45	U	5.0	0.45	0.21	ug/L 1	1
Ethylbenzene	100-41-4	8260B	0.51	U	5.0	0.51	0.21	ug/L 1	1
Naphthalene	91-20-3	8260B	0.96	U	5.0	0.96	0.14	ug/L 1	1
Toluene	108-88-3	8260B	0.48	U	5.0	0.48	0.24	ug/L 1	1
Xylenes (total)	1330-20-7	8260B	0.57	U	5.0	0.57	0.32	ug/L 1	1

Surrogate	Run 1 A Q % Recovery	Acceptance Limits
Bromofluorobenzene	97	75-120
1,2-Dichloroethane-d4	103	70-120
Toluene-d8	105	85-120
Dibromofluoromethane	106	85-115

PQL = Practical quantitation limit ND = Not detected at or above the MDL B = Detected in the method blank  $J = Estimated result < PQL and <math>\geq MDL$  E = Quantitation of compound exceeded the calibration range P = The RPD between two GC columns exceeds 40%

H = Out of holding time N = Recovery is out of criteria

Q = Surrogate failure L = LCS/LCSD failure S = MS/MSD failure

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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#### Semivolatile Organic Compounds by GC/MS (SIM)

Client: AECOM - Resolution Consultants

Laboratory ID: QL11039-001

Matrix: Aqueous

Description: BEALB119MW03WG20151211

Date Sampled: 12/11/2015 0915 Date Received: 12/11/2015

Run Prep Method Analytical Method Dilution Analysis Date Analyst Batch **Prep Date** 1 3520C 8270D (SIM) 12/21/2015 1832 RBH 12/18/2015 0905 92499

	CAS	Analytical							
Parameter	Number	Method	Result	Q	LOQ	LOD	DL	Units R	Run
Benzo(a)anthracene	56-55-3	8270D (SIM)	0.040	U	0.20	0.040	0.019	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D (SIM)	0.040	U	0.20	0.040	0.019	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D (SIM)	0.040	U	0.20	0.040	0.024	ug/L	1
Chrysene	218-01-9	8270D (SIM)	0.040	U	0.20	0.040	0.021	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D (SIM)	0.080	U	0.20	0.080	0.040	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Methylnaphthalene-d10		58	15-139
Fluoranthene-d10		101	23-154

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 L = LCS/LCSD failure

J = Estimated result < PQL and ≥ MDL Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

S = MS/MSD failure

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#### **Volatile Organic Compounds by GC/MS**

Client: AECOM - Resolution Consultants

Description: BEALB119MW04WG20151214

Laboratory ID: QL16007-001

Matrix: Aqueous

Date Sampled: 12/14/2015 1220

Date Received: 12/16/2015

Run Prep Method Analytical Method Dilution Analysis Date Analyst **Prep Date** Batch 5030B 8260B 12/23/2015 2004 ECP 92976

	CAS	Analytical							
Parameter	Number	Method	Result	Q	LOQ	LOD	DL	Units Ru	un
Benzene	71-43-2	8260B	0.45	U	5.0	0.45	0.21	ug/L 1	1
Ethylbenzene	100-41-4	8260B	0.51	U	5.0	0.51	0.21	ug/L 1	1
Naphthalene	91-20-3	8260B	0.96	U	5.0	0.96	0.14	ug/L 1	1
Toluene	108-88-3	8260B	0.48	U	5.0	0.48	0.24	ug/L 1	1
Xylenes (total)	1330-20-7	8260B	0.57	U	5.0	0.57	0.32	ug/L 1	1

Surrogate	Run 1 Q % Recovery	Acceptance Limits
Bromofluorobenzene	97	75-120
1,2-Dichloroethane-d4	109	70-120
Toluene-d8	109	85-120
Dibromofluoromethane	113	85-115

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

H = Out of holding time

Q = Surrogate failure L = LCS/LCSD failure

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

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#### Semivolatile Organic Compounds by GC/MS (SIM)

Client: AECOM - Resolution Consultants

Laboratory ID: QL16007-001

Description: BEALB119MW04WG20151214

Date Sampled: 12/14/2015 1220 Date Received: 12/16/2015

Matrix: Aqueous

Date	Received: 12/16/2015				
Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date Batch
1	3520C	8270D (SIM)	1	12/22/2015 1011 RBH	12/20/2015 1910 92636

	CAS	Analytical							
Parameter	Number	Method	Result	Q	LOQ	LOD	DL	Units R	Run
Benzo(a)anthracene	56-55-3	8270D (SIM)	0.040	U	0.20	0.040	0.019	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270D (SIM)	0.040	U	0.20	0.040	0.019	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270D (SIM)	0.040	U	0.20	0.040	0.024	ug/L	1
Chrysene	218-01-9	8270D (SIM)	0.040	U	0.20	0.040	0.021	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270D (SIM)	0.080	U	0.20	0.080	0.040	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Methylnaphthalene-d10		88	15-139
Fluoranthene-d10		97	23-154

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

Q = Surrogate failure 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"

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

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

S = MS/MSD failure

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### Appendix E Historical Groundwater Analytical Results



#### Appendix E-3 Historical Groundwater Analytical Results - 2013 through 2018 Laurel Bay Military Housing Area MCAS Beaufort, South Carolina

Old Laurel Bay Military Housing Area Address	New Laurel Bay Military					Benzene	Ethylbenzene	Naphthalene	Toluene	Xylenes	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene
		Property Status	SCDHEC RBSLs		5	700	25	1000	10000	10	10	10	10	10	
riousing Area Address	Housing Area Address		Well ID	Sample Date	Sample Type										
				12/11/2015	N	< 0.45 U	5.0	36 J	< 0.48 U	3.3 J	0.065 J	0.034 J	< 0.040 U	0.079 J	< 0.080 U
			DEAL DATOMINO		FD	< 0.45 U	5.0	37 J	< 0.48 U	3.5 J	< 0.040 U	< 0.040 U	< 0.040 U	0.037 J	< 0.080 UJ
			BEALB119MW01	7/28/2016 6/14/2017	N N	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.10 UJ <b>0.050 J</b>	< 0.10 UJ < 0.10 UJ			
				1/23/2018	N	NA	NA	< 0.80 U	NA	NA	NA	NA	NA	NA	NA
			-	12/11/2015 7/28/2016	N N	< 0.45 U	< 0.51 U < 0.80 U	< 0.96 U	0.31 J	< 0.57 U	< 0.040 U	< 0.040 U < 0.10 U	< 0.040 U < 0.10 U	< 0.040 U	< 0.080 U < 0.10 U
			BEALB119MW02	6/13/2017	N	< 0.80 U < 0.80 U	< 0.80 U	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.10 U < 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 U < 0.10 UJ	< 0.10 UJ
119 Banyan Drive	57 Banyan Drive	LTM		1/23/2018	N	NA	NA	< 0.80 U	NA	NA	NA	NA	NA	NA	NA
			=	12/11/2015 7/28/2016	N N	< 0.45 U < 0.80 U	< 0.51 U < 0.80 U	< 0.96 U < 0.80 U	< 0.48 U < 0.80 U	< 0.57 U < 0.80 U	< 0.040 U < 0.10 UJ	< 0.040 U < 0.10 UJ	< 0.040 U < 0.10 UJ	< 0.040 U < 0.10 UJ	< 0.080 U < 0.10 UJ
			BEALB119MW03	6/13/2017	N	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 UJ
				1/23/2018	N	NA	NA	< 0.80 U	NA	NA	NA	NA	NA	NA	NA
			=	12/14/2015 7/28/2016	N N	< 0.45 U < 0.80 U	< 0.51 U < 0.80 U	< 0.96 U < 0.80 U	< 0.48 U < 0.80 U	< 0.57 U < 0.80 U	< 0.040 U < 0.10 U	< 0.040 U < 0.10 U	< 0.040 U < 0.10 U	< 0.040 U < 0.10 U	< 0.080 U < 0.10 U
			BEALB119MW04	6/13/2017	N	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 UJ
				1/23/2018	N	NA	NA	< 0.80 U	NA	NA	NA	NA	NA	NA	NA
				12/14/2015 7/28/2016	N N	0.68 J 1.7	6.5 18	29 51	0.42 J 0.87 J	21 19	< 0.040 U < 0.10 U	< 0.040 U < 0.10 U	< 0.040 U < 0.10 U	< 0.040 U < 0.10 U	< 0.080 U < 0.10 U
			BEALB128MW01	6/14/2017	N	1.4	19	55	0.79 J	33	0.048 J	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ
				1/22/2018	N	NA 0.45 H	NA 0.54 H	64	NA 0.40 H	NA 0.57.11	NA 0.040 H	NA	NA 0.040 H	NA	NA 0.000 H
		LTM		12/14/2015 7/28/2016	N N	< 0.45 U < 0.80 U	< 0.51 U < 0.80 U	< 0.96 U < 0.80 U	< 0.48 U < 0.80 U	< 0.57 U < 0.80 U	< 0.040 U < 0.10 U	< 0.040 U < 0.10 U	< 0.040 U < 0.10 U	< 0.040 U < 0.10 U	< 0.080 U < 0.10 U
			BEALB128MW02	6/14/2017	N	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	0.043 J	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ
100 Banyan Driva	156 Banyan Drive			1/22/2018 12/14/2015	N N	NA < 0.45 U	NA < 0.51 U	< 0.80 U < 0.96 U	NA < 0.48 U	NA < 0.57 U	NA < 0.040 U	NA < 0.040 U	NA < 0.040 U	NA < 0.040 U	NA < 0.080 U
128 Banyan Drive			BEALB128MW03	7/29/2016	N	1.4	7.1	39	< 0.48 U	15	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ
				6/13/2017	N	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 UJ
				1/22/2018 12/14/2015	N N	NA - 0.45 II	NA < 0.51 U	<b>10</b> < 0.96 U	7.4	NA < 0.57 U	NA < 0.040 U	NA - 0.040 II	NA < 0.040 U	NA	NA - 0.080 II
					N	< 0.45 U < 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.10 U	< 0.040 U < 0.10 U	< 0.10 U	< 0.040 U < 0.10 U	< 0.080 U < 0.10 U
			BEALB128MW04	7/29/2016	FD	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
				6/13/2017 1/22/2018	N N	< 0.80 U NA	< 0.80 U NA	< 0.80 U	< 0.80 U NA	< 0.80 U NA	0.043 J	< 0.10 U NA	< 0.10 U NA	< 0.10 U NA	< 0.10 UJ NA
130 Banyan Drive	174 Banyan Drive	LTM	BEALB130MW01	3/23/2017	N	1.2	66	160	< 0.80	12	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
130 Danyan Diive	174 Ballyall Dlive	LIM	BEAEBISONIWOI	1/19/2018	N	0.45 J	35	96 150 J	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
		LTM	BEALB132MW01 BEALB132MW02	12/15/2015 7/29/2016	N N	7.9 30	42 78	200	< 0.48 U < 0.80 U	39 60	< 0.040 U < 0.10 U	< 0.040 U < 0.10 U	< 0.040 U < 0.10 U	< 0.040 U < 0.10 U	< 0.080 U < 0.10 U
				6/15/2017	N	17	52	150	< 0.80 U	33	0.050 J	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ
				1/19/2018 12/15/2015	N N	33 0.50 J	NA < 0.51 U	310 2.8 J	NA < 0.48 U	NA < 0.57 U	NA < 0.040 U	NA < 0.040 U	NA < 0.040 U	NA < 0.040 U	NA < 0.080 U
				7/29/2016	N	< 0.80 U	< 0.80 U	< 0.80 U	< 0.40 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
				6/14/2017	N	< 0.80 U	< 0.80 U	1.2	< 0.80 U	< 0.80 U	0.041 J	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
132 Banyan Drive	188 Banyan Drive		BEALB132MW03	1/19/2018 12/15/2015	N N	< 0.80 U < 0.45 U	NA < 0.51 U	<b>0.99 J</b> < 0.96 U	NA < 0.48 U	NA < 0.57 U	NA < 0.040 U	NA < 0.040 U	NA < 0.040 U	NA < 0.040 U	NA < 0.080 U
				7/29/2016	N	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 UJ	< 0.10 U	< 0.10 U
				6/14/2017 1/19/2018	N N	< 0.80 U	< 0.80 U NA	< 0.80 U	< 0.80 U NA	< 0.80 U NA	< 0.10 U NA	< 0.10 U NA	< 0.10 U NA	< 0.10 U NA	< 0.10 UJ NA
			BEALB132MW04	12/15/2015	N	< 0.80 U < 0.45 U	< 0.51 U	< 0.80 U <b>0.47 J</b>	< 0.48 U	< 0.57 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
				7/29/2016	N	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
				6/14/2017 1/19/2018	N N	< 0.80 U < 0.80 U	< 0.80 U NA	< 0.80 U < 0.80 U	< 0.80 U NA	< 0.80 U NA	0.13 J	< 0.10 U NA	< 0.10 U NA	0.080 J NA	< 0.10 UJ NA
		LTM		12/15/2015	N	< 0.45 U	3.4 J	79	< 0.48 U	0.36 J	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
			BEALB135MW01	8/2/2016	N	< 0.80 U	2.4	45	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
	378 Birch Drive			6/14/2017	FD N	< 0.80 U <b>1.0</b>	2.6 4.6	47 61	< 0.80 U < 0.80 U	< 0.80 U <b>2.2</b>	< 0.10 U < 0.10 UJ	< 0.10 U < 0.10 UJ	< 0.10 U < 0.10 UJ	< 0.10 U < 0.10 UJ	< 0.10 U < 0.10 UJ
				1/23/2018	N	NA	NA	64	NA	NA	NA	NA	NA	NA	NA
			BEALB135MW02	12/14/2015	N	< 0.45 U	< 0.51 U	< 0.96 U	< 0.48 U	< 0.57 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
				8/1/2016 6/13/2017	N N	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.10 U < 0.10 UJ	< 0.10 U < 0.10 UJ	< 0.10 U < 0.10 UJ	< 0.10 U < 0.10 UJ	< 0.10 U < 0.10 UJ
135 Birch Drive				1/23/2018	N	NA	NA	< 0.80 U	NA	NA	NA	NA	NA	NA	NA
			BEALB135MW03	12/14/2015 8/2/2016	N N	< 0.45 U < 0.80 U	< 0.51 U < 0.80 U	< 0.96 U < 0.80 U	< 0.48 U < 0.80 U	< 0.57 U < 0.80 U	< 0.040 U < 0.10 U	< 0.040 U < 0.10 U	< 0.040 U < 0.10 U	< 0.040 U < 0.10 U	< 0.080 UJ < 0.10 U
				6/13/2017	N	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	0.096 J	< 0.10 U	< 0.10 U	0.042 J	< 0.10 UJ
				1/22/2018	N	NA	NA	< 0.80 U	NA	NA	NA	NA	NA	NA	NA
			-	12/14/2015 8/1/2016	N N	< 0.45 U < 0.80 U	< 0.51 U < 0.80 U	< 0.96 U < 0.80 U	< 0.48 U < 0.80 U	< 0.57 U < 0.80 U	< 0.040 U < 0.10 U	< 0.040 U < 0.10 U	< 0.040 U < 0.10 U	< 0.040 U < 0.10 U	< 0.080 U < 0.10 U
			BEALB135MW04	6/13/2017	N	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	0.044 J	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 UJ
				1/22/2018	N	NA	NA	< 0.80 U	NA	NA	NA	NA	NA	NA	NA



#### Appendix E-3 Historical Groundwater Analytical Results - 2013 through 2018 Laurel Bay Military Housing Area MCAS Beaufort, South Carolina

Old Laurel Bay Military						Benzene	Ethylbenzene	Naphthalene	Toluene	Xylenes	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene
	New Laurel Bay Military	Property Status		s	CDHEC RBSLs	5	700	25	1000	10000	10	10	10	10	10
Housing Area Address	Housing Area Address		Well ID	Sample Date	Sample Type										
				12/16/2015	N	< 0.45 U	13	110 J	< 0.48 U	8.9	0.045 J	< 0.040 U	< 0.040 U	0.043 J	< 0.080 U
			BEALB148MW01*	8/2/2016	N/A	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP
			52/1251 101111101	6/15/2017 1/22/2018	N N*	< 0.80 U < 0.80 U	4.0 8.1	28 87	< 0.80 U	< 0.80 U < 0.80 U	0.16 J 0.24	0.042 J 0.098 J	< 0.10 UJ < 0.10 U	0.10 J 0.15 J	< 0.10 UJ < 0.10 U
				12/16/2015	N	< 0.45 U	0.60 J	48 J	0.24 J	< 0.57 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
			DE 11 D4 401 114/00	8/2/2016	N	< 0.80 U	< 0.80 U	18	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
			BEALB148MW02	6/15/2017	FD N	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	18 16	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.10 U <b>0.047 J</b>	< 0.10 U < 0.10 U			
148 Laurel Bay Boulevard	917 Laurel Bay Boulevard	LTM		1/19/2018	N	< 0.80 U	< 0.80 U	14	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
			-	12/16/2015 8/2/2016	N N	< 0.45 U < 0.80 U	0.56 J 0.93 J	6.6 J 16	< 0.48 U < 0.80 U	< 0.57 U < 0.80 U	< 0.040 U < 0.10 U	< 0.040 U < 0.10 U	< 0.040 U < 0.10 U	< 0.040 U < 0.10 U	< 0.080 U < 0.10 U
			BEALB148MW03	6/15/2017	N	< 0.80 U	0.84 J	5.4	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
				1/19/2018	N	< 0.80 U	0.43 J	2.7	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
			-	12/15/2015 8/2/2016	N N	< 0.45 U < 0.80 U	< 0.51 U < 0.80 U	< 0.96 U < 0.80 U	< 0.48 U < 0.80 U	< 0.57 U < 0.80 U	< 0.040 U < 0.10 U	< 0.040 U < 0.10 U	< 0.040 U < 0.10 U	< 0.040 U < 0.10 U	< 0.080 U < 0.10 U
			BEALB148MW04	6/15/2017	N	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
				1/19/2018	N	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
				12/15/2015	N FD	< 0.45 U < 0.45 U	9.2 11	72 82	< 0.48 U < 0.48 U	25 31	< 0.20 U < 0.040 U	< 0.20 U < 0.040 U	< 0.20 U < 0.040 U	< 0.20 U < 0.040 U	< 0.40 U < 0.080 U
			BEALB156MW01	8/1/2016	N	< 0.80 U	13	110	< 0.80 U	18	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
			-	6/14/2017 1/23/2018	N N	< 0.80 U NA	8.6 NA	62 110	< 0.80 U NA	6.2 NA	< 0.10 U NA	< 0.10 U NA	< 0.10 U NA	< 0.10 U NA	< 0.10 U NA
1		LTM		12/15/2015	N	< 0.45 U	< 0.51 U	< 0.96 U	< 0.48 U	< 0.57 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
	989 Laurel Bay Boulevard		BEALB156MW02	8/1/2016 6/14/2017	N N	< 0.80 U	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.10 U < 0.10 U	< 0.10 U < 0.10 U	< 0.10 U < 0.10 U	< 0.10 U	< 0.10 U < 0.10 UJ
				1/23/2018	N	< 0.80 U NA	< 0.80 U	< 0.80 U	< 0.80 U	< 0.60 U	< 0.10 0 NA	< 0.10 0 NA	< 0.10 U	< 0.10 U NA	< 0.10 03 NA
			BEALB156MW03	12/15/2015	N	< 0.45 U	< 0.51 U	< 0.96 U	< 0.48 U	< 0.57 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
156 Laurel Bay Boulevard				8/1/2016 6/14/2017	N N	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.10 U < 0.10 U	< 0.10 U < 0.10 U	< 0.10 U < 0.10 U	< 0.10 U < 0.10 U	< 0.10 U < 0.10 UJ
				1/22/2018	N	NA	NA	< 0.80 U	NA NA	NA	NA NA	NA NA	NA	NA NA	NA
			-	12/15/2015	N	< 0.45 U	< 0.51 U	< 0.96 U	< 0.48 U	< 0.57 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U < 0.10 U
			BEALB156MW04	8/1/2016 6/14/2017	N N	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.10 U < 0.10 U	< 0.10 U < 0.10 U	< 0.10 UJ < 0.10 U	< 0.10 U < 0.10 U	< 0.10 UJ
				1/22/2018	N	NA	NA	< 0.80 U	NA	NA	NA	NA	NA	NA	NA
			BEALB156MW05	12/15/2015 8/3/2016	N N	< 0.45 U < 0.80 U	< 0.51 U < 0.80 U	< 0.96 U < 0.80 U	< 0.48 U < 0.80 U	< 0.57 U < 0.80 U	< 0.040 U < 0.10 U	< 0.040 U < 0.10 U	< 0.040 U < 0.10 U	< 0.040 U < 0.10 U	< 0.080 U < 0.10 U
				6/14/2017	N	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ
				1/22/2018	N	NA	NA	< 0.80 U	NA	NA	NA 0.40	NA	NA 0.40	NA	NA 0.40
256 Beech Street	53 Beech Street	LTM	BEALB256MW01	3/23/2017	N FD	1.2 1.3	14 15	38 38	< 0.80 < 0.80	12 13	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10	< 0.10 < 0.10
				1/23/2018	N	2.3	14	50	< 0.80 U	2.2	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ
273 Birch Drive	82 Birch Drive	LTM	BEALB273MW01	7/25/2016 6/14/2017	N N	2.4 1.9	5.9 16	75 170	< 0.80 U < 0.80 U	<b>1.5</b> < 0.80 U	< 0.10 U <b>0.056 J</b>	< 0.10 U < 0.10 UJ			
270 Billon Billyo	OZ BIION BIIVO	21111	BE/YEBZ/OWW01	1/23/2018	N	2.6	11	140	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
				7/30/2013	N N	0.41 J	1.2 0.76 J	57 14	< 0.25 U	< 0.25 U < 0.40 U	< 0.11 U < 0.040 U	< 0.11 U < 0.040 U	< 0.11 U < 0.040 U	< 0.11 U < 0.040 U	< 0.11 U < 0.080 U
				9/11/2014	FD	< 0.40 U < 0.40 U	0.76 J	15	< 0.20 U < 0.20 U	< 0.40 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
			BEALB282MW136	9/15/2015	N	< 0.45 U	NA	16	NA	NA	NA	NA	NA	NA	NA
					FD N	< 0.45 U NA	NA NA	13 15	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
				7/28/2016	FD	NA	NA	16	NA	NA	NA	NA	NA	NA	NA
				7/30/2013 9/11/2014	N N	< 0.25 U < 0.40 U	< 0.25 U < 0.20 U	< 0.25 U < 0.20 U	< 0.25 U < 0.20 U	< 0.25 U < 0.40 U	< 0.10 U < 0.040 U	< 0.10 U < 0.040 U	< 0.10 U < 0.040 U	< 0.10 U < 0.040 U	< 0.10 U < 0.080 U
282 Birch Drive	191 Birch Drive	NFA	BEALB282MW137	9/15/2015	N	< 0.45 U	NA	< 0.20 U	NA	NA	NA	NA	NA	NA	NA
				7/28/2016	N	NA	NA	< 0.80 U	NA	NA	NA	NA	NA	NA	NA
			BEALB282MW138	7/30/2013 9/12/2014	N N	< 0.25 U < 0.40 U	< 0.25 U < 0.20 U	< 0.25 U < 0.20 U	< 0.25 U < 0.20 U	< 0.25 U < 0.40 U	< 0.10 U < 0.040 U	< 0.10 U < 0.040 U	< 0.10 U < 0.040 U	< 0.10 U < 0.040 U	< 0.10 U < 0.080 U
				9/15/2015	N	< 0.45 U	NA	0.14 J	NA	NA	NA	NA	NA	NA	NA
			7/30/20 9/12/20 9/15/20	7/27/2016 7/30/2013	N N	NA < 0.25 U	NA < 0.25 U	< 0.80 U <b>0.41 J</b>	NA < 0.25 U	NA < 0.25 U	NA < 0.10 U	NA < 0.10 U	NA < 0.10 U	NA < 0.10 U	NA < 0.10 U
				9/12/2014	N	< 0.40 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.40 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.080 U
				9/15/2015	N	< 0.45 U	NA	< 0.96 U	NA	NA	NA NA	NA	NA	NA	NA
		. =		7/27/2016 3/23/2017	N N	0.95	5.1	< 0.80 U	NA < 0.80	NA 5.9	NA < 0.10	NA < 0.10	NA < 0.10	NA < 0.10	NA < 0.10
285 Birch Drive	174 Birch Drive	LTM	BEALB285MW01	1/23/2018	N	2.1	10	60	< 0.80 U	7.2	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
292 Birch Drive	273 Birch Drive	NFA	BEALB292MW01	3/23/2017	N	< 0.80	3.2	10	< 0.80	< 0.80	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
325 Ash Street	238 Ash Street	LTM	BEALB325MW01	7/25/2016 6/14/2017	N N	< 0.80 U < 0.80 U	25 18	100 J 86	< 0.80 U < 0.80 U	18 8.8	< 0.10 U < 0.10 U	< 0.10 U < 0.10 U	< 0.10 U < 0.10 U	< 0.10 U < 0.10 U	< 0.10 UJ < 0.10 UJ
				1/23/2018	N	< 0.80 U	16	92	< 0.80 U	7.1	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U



						Benzene	Ethylbenzene	Naphthalene	Toluene	Xylenes	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracen
Old Laurel Bay Military Housing Area Address	New Laurel Bay Military Housing Area Address	Property Status			SCDHEC RBSLs	5	700	25	1000	10000	10	10	10	10	10
Troubing Area Address	Troubing Area Address		Well ID	Sample Date	Sample Type										
				7/25/2016	N	2.6	15	49	0.86 J	59	< 0.10 U				
326 Ash Street	239 Ash Street	LTM	BEALB326MW01	6/14/2017	N	2.2	8.0	37	< 0.80 U	23	< 0.50 UJ				
				1/23/2018 7/26/2016	N N	3.7 1.3	19 48	74 120	0.68 J 0.86 J	43 100	< 0.10 UJ < 0.10 UJ				
330 Ash Street	309 Ash Street	LTM	BEALB330MW01	6/14/2017	N	1.5	46	150	1.1	68	< 0.10 U				
				1/24/2018	N/A	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP
331 Ash Street	324 Ash Street	LTM	BEALB331MW01	3/23/2017 1/24/2018	N N	< 0.80 < 0.80 U	2.0 1.0	41 32	< 0.80 < 0.80 U	3.6 1.8	< 0.10 < 0.10 U				
335 Ash Street	350 Ash Street	LTM	BEALB335MW01	1/24/2018	N/A	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP
				7/25/2016	N	5.9	12	55	< 0.80 U	2.0	< 0.10 U				
336 Ash Street	381 Ash Street	LTM	BEALB336MW01		FD	6.6	13	63	< 0.80 U	2.3	< 0.10 U				
	00171011011011		52/125000	6/15/2017 1/24/2018	N	7.7 6.6	21 18	130 79	< 0.80 U	< 0.80 U	0.041 J	< 0.10 U < 0.10 U	< 0.10 U < 0.10 U	< 0.10 U	< 0.10 U < 0.10 U
342 Ash Street	445 Ash Street	NFA	BEALB342MW01	3/23/2017	N N	0.68	0.72	5.1	< 0.80 U < 0.80	< 0.80 U < 0.80	< 0.10 U < 0.10	< 0.10	< 0.10 0	< 0.10 U < 0.10	< 0.10
342 ASH Olicet	440 Adil Olicci	NIA	BEALDS#ZWW01	7/25/2016	N	< 0.80 U	13	37	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
343 Ash Street	410 Ash Street	LTM	BEALB343MW01	6/15/2017	N	< 0.80 U	3.9	7.7	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
				1/24/2018	N	< 0.80 U	1.7	8.7	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
353 Ash Street	502 Ash Street	LTM	BEALB353MW01	7/25/2016 6/15/2017	N N	0.97 J 1.4	15 11	100 17	< 0.80 U < 0.80 U	1.2 0.47 J	< 0.10 U < 0.50 U				
333 Asii Gilect	302 ASIT Officer	LIW	BEAEBSSSWW01	1/26/2018	N	1.2	18	1.6	< 0.80 U	0.56 J	< 0.50 UJ				
				7/29/2013	N	0.25 J	15	72	< 0.25 U	23	0.33	0.19 J	< 0.11 U	0.20 J	< 0.11 U
				9/10/2014	N	2.0	14	71	< 0.20 U	18	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
			BEALB388MW110	9/14/2015 7/27/2016	N N	0.75 J NA	NA NA	49 BJ 30	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
				6/15/2017	N	NA	NA	34	NA NA	NA NA	NA NA	NA NA	NA NA	NA	NA NA
				1/24/2018	N	NA	NA	62	NA	NA	NA	NA	NA	NA	NA
				7/29/2013	N	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
				9/10/2014	N	< 0.40 U	< 0.20 U	0.48 J	< 0.20 U	< 0.40 U NA	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
388 Acorn Drive	125 Acorn Drive	LTM	BEALB388MW111	9/14/2015 7/27/2016	N N	< 0.45 U NA	NA NA	< 0.96 U < 0.80 U	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
2007.0020	120 7 100 111 2 111 10			6/15/2017	N	NA	NA	< 0.80 U	NA	NA	NA	NA	NA	NA	NA
				1/24/2018	N	NA	NA	< 0.80 U	NA	NA	NA	NA	NA	NA	NA
				7/29/2013	N	< 0.25 U	< 0.25 U	14	< 0.25 U	< 0.25 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U
				9/10/2014 9/14/2015	N N	< 0.40 U < 0.45 U	< 0.20 U NA	26 6.8 BJ	< 0.20 U NA	< 0.40 U NA	< 0.040 U NA	< 0.040 U NA	< 0.040 U NA	< 0.040 U NA	< 0.080 U NA
			BEALB388MW112		N	NA	NA	2.8	NA	NA	NA NA	NA	NA	NA	NA
				7/27/2016	FD	NA	NA	3.2	NA	NA	NA	NA	NA	NA	NA
				6/15/2017	N	NA	NA	8.5	NA	NA	NA	NA	NA	NA	NA
				1/24/2018 7/30/2013	N N	NA < 0.25 U	NA < 0.25 U	<b>3.5</b> < 0.25 U	NA < 0.25 U	NA < 0.25 U	NA < 0.11 U	NA < 0.11 U	NA < 0.11 U	NA < 0.11 U	NA < 0.11 U
			BEALB391MW113	9/10/2014	N	< 0.40 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.40 U	< 0.11 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
				9/15/2015	N	< 0.45 U	NA	< 0.96 U	NA	NA	NA	NA	NA	NA	NA
				7/29/2013	N	< 0.25 U	< 0.25 U	6.6	< 0.25 U	< 0.25 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U
			BEALB391MW114	9/10/2014	FD N	< 0.25 U < 0.40 U	< 0.25 U < 0.20 U	6.3 12	< 0.25 U < 0.20 U	< 0.25 U < 0.40 U	< 0.11 U < 0.040 U	< 0.11 U < 0.040 U	< 0.11 U < 0.040 U	< 0.11 U < 0.040 U	< 0.11 U < 0.080 U
391 Acorn Drive	138 Acorn Drive	NFA		9/14/2015	N	< 0.45 U	V 0.20 U	0.51 BJ	< 0.20 0 NA	VA NA	< 0.040 0	VA NA	< 0.040 0 NA	< 0.040 0 NA	VA
				7/29/2013	N	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U
			BEALB391MW115	9/10/2014	N	< 0.40 U	< 0.20 U	0.89 J	< 0.20 U	< 0.40 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
				9/14/2015	N	< 0.45 U	NA NA	0.63 BJ	NA . o of II	NA NA	NA O 10 II	NA -0.40 H	NA · 0.40.11	NA . o do II	NA - 0.40 II
			BEALB391MW116	7/29/2013 9/10/2014	N N	< 0.25 U < 0.40 U	< 0.25 U < 0.20 U	3.7 0.57 J	< 0.25 U < 0.20 U	< 0.25 U < 0.40 U	< 0.10 U < 0.040 U	< 0.10 U < 0.040 U	< 0.10 U < 0.040 U	< 0.10 U < 0.040 U	< 0.10 U < 0.080 U
				9/14/2015	N	< 0.45 U	NA	19 BJ	NA	NA	NA	NA	NA	NA	NA
				7/30/2013	N	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
			BEALB398MW104	9/10/2014	N	< 0.40 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.40 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
				9/15/2015 7/30/2013	N N	< 0.45 U	NA < 0.25 U	< 0.96 U < 0.25 U	NA < 0.25 U	NA - 0.25 II	NA - 0.11 II	NA < 0.11 U	NA < 0.11 U	NA - 0.11 II	NA < 0.11 U
398 Acorn Drive	203 Acorn Drive	NFA	BEALB398MW105	9/10/2014	N N	< 0.25 U < 0.40 U	< 0.25 U	< 0.25 U	< 0.25 U < 0.20 U	< 0.25 U < 0.40 U	< 0.11 U < 0.040 U	< 0.040 U	< 0.11 U < 0.040 U	< 0.11 U < 0.040 U	< 0.11 U
		1		9/15/2015	N	< 0.45 U	NA	0.18 J	NA	NA NA	NA	NA	NA	NA	NA
				7/30/2013	N	0.71	0.18 J	0.93	< 0.25 U	< 0.25 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U
			BEALB398MW106	9/10/2014	N	< 0.40 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.40 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
430 Elderberry Drive	323 Elderberry Drive	NFA	BEALB430MW01	9/15/2015 7/22/2016	N N	< 0.45 U < 0.80 U	NA 9.1	< 0.96 U <b>24</b>	NA < 0.80 U	NA 24	NA < 0.10 U				
400 Elucibelly Dlive	JZJ EIUEIDEITY DIIVE	INFA	DEMLD43UIVIVVUI	1122/2010	íN	< 0.00 U	J. I	<b>4</b> 4	< 0.00 U	24	< 0.10 0	< 0.10 0	< 0.10 0	< U. IU U	< 0.10 ∪



						Benzene	Ethylbenzene	Naphthalene	Toluene	Xylenes	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracen
Old Laurel Bay Military Housing Area Address	New Laurel Bay Military Housing Area Address	Property Status		;	SCDHEC RBSLs	5	700	25	1000	10000	10	10	10	10	10
riousing Area Address	riousing Area Address		Well ID	Sample Date	Sample Type										
				7/31/2013	N	0.93	25	110	0.57	49	< 0.21 UJ	< 0.21 UJ	< 0.21 UJ	< 0.21 UJ	< 0.21 UJ
				775172015	FD	0.96	26	110	0.61	50	< 0.21 UJ	< 0.21 UJ	< 0.21 UJ	< 0.21 UJ	< 0.21 UJ
				9/11/2014	N FD	0.40 J 0.41 J	8.8 9.3	41 45	< 0.20 U	18 19	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
			BEALB437MW133		N	1.5 J	9.3 NA	180 BJ	< 0.20 U NA	NA NA	< 0.040 U NA	< 0.040 U NA	< 0.040 U NA	< 0.040 U NA	< 0.080 U NA
			52,125,101,111,100	9/15/2015	FD	1.3 J	NA	200 BJ	NA	NA	NA	NA	NA	NA	NA
				7/27/2016	N	NA	NA	77	NA	NA	NA	NA	NA	NA	NA
				6/15/2017	N	NA	NA	170	NA	NA	NA	NA	NA	NA	NA
				1/25/2018	N	NA NA	NA . 0. FO. I I	83 6.9	NA NA	NA . 0.50 II	NA O 24 I I	NA - 0.24 H	NA < 0.21 U	NA O 24 III	NA O 24 III
			<b>l</b>	7/31/2013 9/11/2014	N N	< 0.50 U < 0.40 U	< 0.50 U < 0.20 U	1.1	< 0.50 U < 0.20 U	< 0.50 U < 0.40 U	< 0.21 U < 0.040 U	< 0.21 U < 0.040 U	< 0.21 U < 0.040 U	< 0.21 U < 0.040 U	< 0.21 U < 0.080 U
			DEAL D407MM404	9/15/2015	N	< 0.45 U	NA	0.86 J	NA	NA NA	NA	NA	NA	NA	NA
			BEALB437MW134	7/27/2016	N	NA	NA	0.88 J	NA	NA	NA	NA	NA	NA	NA
				6/15/2017	N	NA	NA	1.7	NA	NA	NA	NA	NA	NA	NA
				1/25/2018	N	NA - 0.F0.II	NA 10.50 II	1.0	NA + 0 FO II	NA - 0.F0.II	NA - 0.21 II	NA - 0.24 II	NA - 0.24 II	NA - 0.21 II	NA . 0.24 III
			<b>l</b>	7/31/2013 9/11/2014	N N	< 0.50 U < 0.40 U	< 0.50 U < 0.20 U	< 0.50 U < 0.20 U	< 0.50 U < 0.20 U	< 0.50 U < 0.40 U	< 0.21 U < 0.040 U	< 0.21 U < 0.040 U	< 0.21 U < 0.040 U	< 0.21 U < 0.040 U	< 0.21 U < 0.080 U
			DEAL D407844405	9/15/2015	N	< 0.45 U	NA	< 0.96 U	NA	NA	NA	NA	NA	NA	NA
			BEALB437MW135	7/27/2016	N	NA	NA	< 0.80 U	NA	NA	NA	NA	NA	NA	NA
437 Elderberry Drive	362 Elderberry Drive	LTM	[	6/15/2017	N	NA	NA	< 0.80 U	NA	NA	NA	NA	NA	NA	NA
				1/24/2018	N	NA - 0 FO II	NA 10 FO III	< 0.80 U	NA + 0 FO II	NA - 0.50 II	NA + 0.21 II	NA . 0.24 III	NA - 0.24 II	NA - 0.21 II	NA . 0.24 III
				7/31/2013 9/11/2014	N N	< 0.50 U < 0.40 U	< 0.50 U < 0.20 U	< 0.50 U < 0.20 U	< 0.50 U < 0.20 U	< 0.50 U < 0.40 U	< 0.21 U < 0.040 U	< 0.21 U < 0.040 U	< 0.21 U < 0.040 U	< 0.21 U < 0.040 U	< 0.21 U < 0.080 U
			<b> </b>	9/15/2015	N	< 0.45 U	NA	< 0.96 U	NA	NA	NA	NA	NA	NA	NA
			BEALB437MW140	7/27/2016	N	NA	NA	< 0.80 U	NA	NA	NA	NA	NA	NA	NA
				6/15/2017	N	NA	NA	< 0.80 U	NA	NA	NA	NA	NA	NA	NA
				1/24/2018	N	NA	NA	< 0.80 U	NA	NA	NA	NA	NA	NA	NA
				7/31/2013 9/11/2014	N N	< 0.50 U	< 0.50 U	< 0.50 U < 0.20 U	< 0.50 U < 0.20 U	< 0.50 U < 0.40 U	< 0.21 U	< 0.21 U < 0.040 U	< 0.21 U	< 0.21 U	< 0.21 U < 0.080 U
			<b>l</b>	9/15/2015	N	< 0.40 U < 0.45 U	< 0.20 U NA	< 0.20 U	< 0.20 U	< 0.40 U	< 0.040 U NA	< 0.040 0 NA	< 0.040 U NA	< 0.040 U NA	< 0.060 U
			BEALB437MW141	7/27/2016	N	NA	NA	< 0.80 U	NA	NA	NA	NA	NA	NA	NA
				6/15/2017	N	NA	NA	< 0.80 U	NA	NA	NA	NA	NA	NA	NA
				1/24/2018	N	NA	NA	< 0.80 U	NA	NA	NA	NA	NA	NA	NA
				7/31/2013	N	< 0.50 U	< 0.50 U	0.33 J	< 0.50 U	0.18 J	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U
			<b>l</b>	9/11/2014 9/15/2015	N N	< 0.40 U < 0.45 U	< 0.20 U NA	< 0.20 U < 0.96 U	< 0.20 U NA	< 0.40 U NA	< 0.040 U NA	< 0.040 U NA	< 0.040 U NA	< 0.040 U NA	< 0.080 U NA
			BEALB437MW142	7/27/2016	N	NA	NA	2.4	NA NA	NA	NA NA	NA NA	NA NA	NA	NA NA
			1	6/15/2017	N	NA	NA	1.1	NA	NA	NA	NA	NA	NA	NA
				1/24/2018	N	NA	NA	0.67 J	NA	NA	NA	NA	NA	NA	NA
				7/22/2016	N	1.1	16	88	< 0.80 U	11	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
440 Elderberry Drive	405 Elderberry Drive	LTM	BEALB440MW01	6/15/2017	FD N	1.0 0.56 J	15 8.5	90 64	< 0.80 U < 0.80 U	<b>9.7</b> < 0.80 U	< 0.10 U < 0.10 U	< 0.10 U < 0.10 U	< 0.10 U < 0.10 U	< 0.10 U < 0.10 U	< 0.10 U < 0.10 U
				1/24/2018	N	< 0.80 U	3.4	31	< 0.80 U	< 0.80 U	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ
			DEAL DAMANAGA 7	7/31/2013	N	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U
			BEALB441MW117	9/11/2014	N	< 0.40 U	< 0.20 U	0.54 J	< 0.20 U	< 0.40 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
441 Elderberry Drive	392 Elderberry Drive	NFA	BEALB441MW118	7/31/2013	N	< 0.50 U	< 0.50 U	6.9	< 0.50 U	< 0.50 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U
,				9/11/2014	N	< 0.40 U	< 0.20 U	2.7	< 0.20 U	< 0.40 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
			BEALB441MW119	7/31/2013 9/11/2014	N N	< 0.50 U < 0.40 U	0.22 J 0.33 J	7.0 8.1	< 0.50 U < 0.20 U	< 0.50 U < 0.40 U	< 0.21 U < 0.040 U	< 0.21 U < 0.040 U	< 0.21 U < 0.040 U	< 0.21 U < 0.040 U	< 0.21 U < 0.080 U
			<del> </del>	7/22/2016	N	6.1	0.33 J 44	200	< 4.0 U	< 0.40 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
456 Elderberry Drive	537 Elderberry Drive	LTM	BEALB456MW01	6/15/2017	N	5.4	64	340	< 0.80 U	41	0.21 J	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
<u> </u>				1/26/2018	N	4.4 J	51	320	< 4.0 U	36	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
				7/22/2016	N	1.5	19	76	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
458 Elderberry Drive	551 Elderberry Drive	LTM	BEALB458MW01	6/15/2017	N/A	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP
468 Dogwood Drive	65 Dogwood Drive	NFA	BEALB468MW01	1/24/2018 7/25/2016	N/A N	<b>NS - FP</b> < 0.80 U	<b>NS - FP</b> < 0.80 U	NS - FP 1.3	<b>NS - FP</b> < 0.80 U	<b>NS - FP</b> < 0.80 U	<b>NS - FP</b> < 0.10 U	<b>NS - FP</b> < 0.10 U	<b>NS - FP</b> < 0.10 U	<b>NS - FP</b> < 0.10 U	<b>NS - FP</b> < 0.10 U
				3/23/2017	N	< 0.80	< 0.60 U	57	< 0.80	2.7	< 0.10	< 0.10	< 0.10	< 0.10 0	< 0.10 0
473 Dogwood Drive	82 Dogwood Drive	LTM	BEALB473MW01	1/24/2018	N	< 0.80 U	5.3	37	< 0.80 U	0.60 J	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
518 Laurel Bay Boulevard	403 Laurel Bay Boulevard		BEALB518MW01	7/26/2016	N	< 0.80 U	1.5	20	< 0.80 U	2.6	< 0.10 U	0.16 J	0.15 J	< 0.10 U	0.15 J
635 Dahlia Drive	542 Dahlia Drive	NFA	BEALB635MW01	7/22/2016	N	< 0.80 U	< 0.80 U	0.81 J	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
638 Dahlia Drive	549 Dahlia Drive	NFA	BEALB638MW01	7/22/2016	N	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
640 Dahlia Drive	569 Dahlia Drive	NFA	BEALB640MW01	7/22/2016	N	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
647 Dahlia Drive	668 Dahlia Drive	NFA	BEALB640MW02 BEALB647MW01	7/22/2016 7/21/2016	N N	< 0.80 U	< 0.80 U <b>0.59 J</b>	< 0.80 U <b>4.3</b>	< 0.80 U < 0.80 U	< 0.80 U <b>0.79 J</b>	< 0.10 U < 0.10 U	< 0.10 U < 0.10 U	< 0.10 U < 0.10 U	< 0.10 U < 0.10 U	< 0.10 U < 0.10 U
UTI Dalilla DIIVE	000 Daniia Diive	INCA	DEALDU4/IVIVVUI	7/21/2016	N	< 0.80 U	1.2	4.8	< 0.80 U	1.9	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
648 Dahlia Drive	633 Dahlia Drive	LTM	BEALB648MW01	6/16/2017	N	< 0.80 U	5.3	7.7	< 0.80 U	0.98 J	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
			<b>!</b>	1/24/2018	N/A	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP



						Benzene	Ethylbenzene	Naphthalene	Toluene	Xylenes	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene
Old Laurel Bay Military Housing Area Address	New Laurel Bay Military Housing Area Address	Property Status		5	CDHEC RBSLs	5	700	25	1000	10000	10	10	10	10	10
	_		Well ID	Sample Date	Sample Type										
				7/21/2016	N/A	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP
			BEALB650MW01	6/16/2017	N	0.56 J	13	59	< 0.80 U	2.3	< 0.10 U				
650 Dahlia Drive	653 Dahlia Drive	LTM		1/26/2018	N	< 0.80 U	4.3	12	< 0.80 U	0.46 J	< 0.10 U				
			BEALB650MW02	7/21/2016 6/15/2017	N N	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.10 U < 0.10 UJ				
			BE/ NEBOOOMIVOE	1/26/2018	N	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
652 Dahlia Drive	669 Dahlia Drive	NFA	BEALB652MW01	7/21/2016	N	< 0.80 U	< 0.80 U	0.61 J	< 0.80 U	0.49 J	< 0.10 U				
652 Daniia Diive	669 Daniia Drive	INFA	BEALB652MW02	7/21/2016	N	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
747 Blue Bell Lane	426 Blue Bell Lane	NFA	BEALB747MW01	3/23/2017	N	< 0.80	2.1	22	< 0.80	0.70	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
749 Blue Bell Lane	440 Blue Bell Lane	LTM	BEALB749MW01	3/23/2017 1/25/2018	N N	< 0.80 < 0.80 U	<b>3.3</b> < 0.80 U	<b>29</b> < 0.80 U	< 0.80 < 0.80 U	<b>7.4</b> < 0.80 U	< 0.10 < 0.10 U	< 0.10 < 0.10 U	< 0.10 < 0.10 U	< 0.10 < 0.10 U	< 0.10 < 0.10 U
760 Althea Street	101 Althea Street	NFA	BEALB760MW01	7/21/2016	N	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
775 Althea Street	244 Althea Street	NFA	BEALB775MW01	3/23/2017	N	< 0.80	6.2	23	< 0.80	< 0.80	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
			BEALB1033MW01		N	< 0.45 U	< 0.51 U	1.1 J	< 0.48 U	< 0.57 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
			DEALD 1033WW01	12/16/2015	FD	< 0.45 U	< 0.51 U	0.84 J	< 0.48 U	< 0.57 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
1033 Foxglove Street	256 Foxglove Street	NFA	BEALB1033MW02	12/16/2015	N	< 0.45 U	< 0.51 U	< 0.96 U	< 0.48 U	< 0.57 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
			BEALB1033MW03	12/16/2015	N	< 0.45 U	< 0.51 U	0.30 J	< 0.48 U	< 0.57 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
1034 Foxglove Street	261 Foxglove Street	NFA	BEALB1033MW04 BEALB1034MW01	12/15/2015 3/24/2017	N N	< 0.45 U < 0.80	< 0.51 U < 0.80	0.71 J 1.5	< 0.48 U < 0.80	< 0.57 U < 0.80	< 0.040 U < 0.10	< 0.080 U < 0.10			
1007 I ONGIOVE GILEEL	201 1 OAGIOVE SILEEL	INITA	DENED IDOMINIVOI	8/1/2013	N	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
			<b> </b>	9/11/2014	N	< 0.40 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.40 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
			BEALB1054DMW1	9/16/2015	N	< 0.45 U	NA	< 0.96 U	NA	NA	NA	NA	NA	NA	NA
			-	7/27/2016	N	NA	NA	0.99 J	NA	NA	NA	NA	NA	NA	NA
			l -	6/19/2017 1/25/2018	N N	NA NA	NA NA	< 0.80 U < 0.80 U	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
				8/1/2013	N	< 0.50 U	2.5	25	< 0.50 U	0.62	< 0.21 UJ				
				9/11/2014	N	< 0.40 U	2.3	15	< 0.20 U	1.1	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
			BEALB1054MW127	9/16/2015	N	< 0.45 U	NA	17	NA	NA	NA	NA	NA	NA	NA
			BEALES TOO TIME TEA	7/28/2016	N	NA	NA	8.3	NA	NA	NA	NA	NA	NA	NA
			l -	6/19/2017 1/25/2018	N N	NA NA	NA NA	7.2 8.7	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
				8/1/2013	N	< 0.50 U	4.4	42	0.20 J	6.3	< 0.21 UJ				
				9/11/2014	N	< 0.40 U	2.4	18	< 0.20 U	2.5	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
			BEALB1054MW128	9/16/2015	N	< 0.45 U	NA	23 BJ	NA	NA	NA	NA	NA	NA	NA
			-	7/27/2016	N	NA	NA	4.9	NA	NA	NA	NA	NA	NA	NA
			l -	6/19/2017 1/25/2018	N N	NA NA	NA NA	7.0	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
				8/1/2013	N	0.32 J	18	73	2.1	35	< 0.21 U				
				9/11/2014	N	0.19 J	13	54	1.3	25	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
				3/11/2014	FD	0.19 J	12	44	1.3	22	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
1054 Gardenia Drive	Empty Lot	LTM	BEALB1054MW129	9/16/2015	N FD	< 0.45 U	NA NA	54 BJ 59	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
1004 Galucilla Dilve	Empty Lot	L 1 IVI	<b> </b>	7/28/2016	N N	< 0.45 U NA	NA NA	29	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
			<b>[</b>	6/19/2017	N	NA	NA	31	NA	NA	NA	NA	NA	NA	NA
				1/25/2018	N	NA	NA	41	NA	NA	NA	NA	NA	NA	NA
				8/1/2013	N	< 0.50 U	< 0.50 U	3.7	< 0.50 U	< 0.50 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U
			<b> </b>	9/11/2014	FD N	< 0.50 U < 0.40 U	< 0.50 U < 0.20 U	3.7 0.45 J	< 0.50 U < 0.20 U	< 0.50 U < 0.40 U	< 0.21 U < 0.040 U	< 0.21 U < 0.080 U			
			BEALB1054MW2	9/16/2015	N	< 0.45 U	NA	< 0.96 U	NA	NA	NA	NA	NA	NA	NA
				7/27/2016	N	NA	NA	< 0.80 U	NA	NA	NA	NA	NA	NA	NA
			[	6/19/2017	N	NA	NA	< 0.80 U	NA	NA	NA	NA	NA	NA	NA
				1/25/2018	N	NA - 0 FO II	NA 10 FO II	< 0.80 U	NA 10 FO II	NA 10 FO II	NA - 0.2011	NA - 0.20 H	NA - 0.20 II	NA - 0.20 II	NA - 0.20 H
			 	8/1/2013 9/11/2014	N N	< 0.50 U < 0.40 U	< 0.50 U < 0.20 U	< 0.50 U < 0.20 U	< 0.50 U < 0.20 U	< 0.50 U < 0.40 U	< 0.20 U < 0.40 U	< 0.20 U < 0.40 U	< 0.20 U < 0.40 U	< 0.20 U < 0.40 U	< 0.20 U < 0.80 U
			DEAL BAGE (\$100)	9/16/2015	N	< 0.45 U	NA	< 0.96 U	NA	NA	NA	NA	NA	NA	NA
			BEALB1054MW4	7/28/2016	N	NA	NA	< 0.80 U	NA	NA	NA	NA	NA	NA	NA
			<b> </b>	6/19/2017	N	NA	NA	< 0.80 U	NA	NA	NA	NA	NA	NA	NA
				1/25/2018	N	NA - 0.50 II	NA - 0.50 II	< 0.80 U	NA - 0 50 LL	NA - 0.50 II	NA - 0.21 II	NA - 0.21 II	NA - 0.21 II	NA - 0.21 II	NA - 0.21 II
			<b> </b>	8/1/2013 9/11/2014	N N	< 0.50 U < 0.40 U	< 0.50 U < 0.20 U	<b>3.6</b> < 0.20 ∪	< 0.50 U <b>1.5</b>	< 0.50 U < 0.40 U	< 0.21 U < 0.040 U	< 0.21 U < 0.080 U			
			BEALB1054MW7	9/16/2015	N	< 0.45 U	NA	< 0.96 U	NA	NA	NA	NA	NA	NA	NA
			DEALB 1054MW/	7/27/2016	N	NA	NA	< 0.80 U	NA	NA	NA	NA	NA	NA	NA
			[	6/19/2017	N	NA	NA	< 0.80 U	NA	NA	NA	NA	NA	NA	NA
				1/25/2018	N	NA	NA	< 0.80 U	NA	NA	NA	NA	NA	NA	NA



						Benzene	Ethylbenzene	Naphthalene	Toluene	Xylenes	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene
Old Laurel Bay Military Housing Area Address	New Laurel Bay Military Housing Area Address	Property Status		S	CDHEC RBSLs	5	700	25	1000	10000	10	10	10	10	10
<b>9</b>	<b>3</b>		Well ID	Sample Date	Sample Type										
			-	12/16/2015	N	< 0.45 U	3.6 J	39 J	< 0.48 U	0.32 J	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
			BEALB1055MW01	8/2/2016 6/16/2017	N N	< 0.80 U	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.10 U < 0.10 U	< 0.10 U < 0.10 U	< 0.10 U < 0.10 U	< 0.10 U < 0.10 U	< 0.10 U < 0.10 U
			-	1/25/2018	N	NA	NA	< 0.80 U	NA	NA	NA	NA	NA	NA	NA
			_	12/16/2015	N	< 0.45 U	< 0.51 U	< 0.96 U	< 0.48 U	< 0.57 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
			BEALB1055MW02	8/2/2016	N	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
				6/16/2017 1/25/2018	N N	< 0.80 U NA	< 0.80 U NA	< 0.80 U < 0.80 U	< 0.80 U NA	< 0.80 U NA	< 0.10 U NA	< 0.10 U NA	< 0.10 U NA	< 0.10 U NA	< 0.10 U NA
1055 Gardenia Drive	191 Gardenia Drive	LTM		12/16/2015	N	< 0.45 U	< 0.51 U	< 0.96 U	< 0.48 U	< 0.57 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
			BEALB1055MW03	8/2/2016	N	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
			-	6/16/2017 1/25/2018	N N	< 0.80 U NA	< 0.80 U NA	< 0.80 U < 0.80 U	< 0.80 U NA	< 0.80 U NA	< 0.10 U NA	< 0.10 U NA	< 0.10 U NA	< 0.10 U NA	< 0.10 U NA
				12/16/2015	N	< 0.45 U	< 0.51 U	< 0.80 U	< 0.48 U	< 0.57 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
			BEALB1055MW04	8/2/2016	N	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
			DEALD 10000000004	6/15/2017	N	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
				1/25/2018 12/16/2015	N N	1.8 J	NA <b>8.8</b>	< 0.80 U	NA 3.8 J	NA 39	NA < 0.040 U	NA < 0.040 U	NA < 0.040 U	NA < 0.040 U	NA < 0.080 U
			PEAL BASSON #4404	8/3/2016	N/A	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP
			BEALB1059MW01	6/19/2017	N/A	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP
				1/29/2018	N/A	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP
			=	12/16/2015 8/3/2016	N N	< 0.45 U < 0.80 U	<b>2.7 J</b> < 0.80 U	10 J 4.4	< 0.48 U < 0.80 U	< 0.57 U <b>0.86 J</b>	< 0.040 U < 0.10 U	< 0.080 U < 0.10 U			
			BEALB1059MW02	6/19/2017	N	< 0.80 U	< 0.80 U	3.2	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
				1/29/2018	N	< 0.80 U	< 0.80 U	0.50 J	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
1059 Gardenia Drive	159 Gardenia Drive	LTM	-	12/16/2015	N	< 0.45 U	< 0.51 U	< 0.96 U	< 0.48 U	< 0.57 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
			BEALB1059MW03	8/3/2016 6/16/2017	N N	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.10 U < 0.10 U	< 0.10 U < 0.10 U	< 0.10 U < 0.10 U	< 0.10 U < 0.10 U	< 0.10 U < 0.10 U
			=	1/29/2018	N	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
				12/16/2015	N	< 0.45 U	< 0.51 U	< 0.96 U	< 0.48 U	< 0.57 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
			BEALB1059MW04	8/2/2016	N	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
			-	6/16/2017 1/29/2018	N N	< 0.80 U	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.10 U < 0.10 U	< 0.10 U < 0.10 U	< 0.10 U < 0.10 U	< 0.10 U < 0.10 U	< 0.10 U < 0.10 U
			DEAL DAGGOMMAGE	3/24/2017	N	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
			BEALB1059MW05	1/29/2018	N	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
1102 Iris Lane	123 Iris Lane	NFA	BEALB1102MW01	7/26/2016	N	< 0.80 U	< 0.80 UJ	< 0.80 U	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 UJ
1104 Iris Lane	141 Iris Lane	NFA	BEALB1104MW01	3/24/2017 3/24/2017	N N	< 0.80	< 0.80 <b>11</b>	< 0.80 <b>49</b>	< 0.80	< 0.80 <b>1.8</b>	< 0.10 < 0.10				
1124 Iris Lane	287 Iris Lane	LTM	BEALB1124MW01	1/26/2018	N	< 0.80 U	5.1	24	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
				7/26/2016	N	< 0.80 U	5.4	33	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
1132 Iris Lane	345 Iris Lane	LTM	BEALB1132MW01	6/16/2017	N	< 0.80 U	1.1	2.2	< 0.80 U	0.83 J	< 0.10 UJ				
1133 Iris Lane	408 Iris Lane	NFA	BEALB1133MW01	1/25/2018 7/26/2016	N N	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.80 U <b>0.45 J</b>	< 0.80 U < 0.80 U	< 0.80 U < 0.80 U	< 0.10 U < 0.10 U	< 0.10 U < 0.10 U	< 0.10 U < 0.10 U	< 0.10 U < 0.10 U	< 0.10 U < 0.10 U
1133 IIIS Latie	400 IIIS Laile	INFA	BEALB I 133IVIVU I	7/26/2016	N/A	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP
			BEALB1144MW01	6/16/2017	N	4.4	25	180	< 0.80 U	3.3	< 1.0 UJ				
****	400 11 1			1/29/2018	N	4.0	19	130 J	< 0.80 U	< 0.80 U	0.42 J	< 0.50 UJ	< 0.50 UJ	0.21 J	< 0.50 UJ
1144 Iris Lane	433 Iris lane	LTM		7/26/2016	N FD	5.0 5.0	52 53	210 200	< 4.0 U	< 4.0 U	< 1.0 UJ < 1.0 UJ				
			BEALB1144MW02	6/16/2017	N	5.4	58	230	< 0.80 U	3.1	< 1.0 UJ				
				1/26/2018	N	2.8	23	110	< 0.80 U	< 0.80 U	< 0.50 UJ				
			DEAL DATA 400 MAYO4	7/26/2016	N/A	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP
			BEALB1148MW01	6/16/2017 1/29/2018	N/A N/A	NS - FP	NS - FP NS - FP	NS - FP NS - FP	NS - FP NS - FP	NS - FP NS - FP	NS - FP NS - FP	NS - FP NS - FP	NS - FP NS - FP	NS - FP NS - FP	NS - FP NS - FP
1148 Iris lane	467 Iris lane	LTM		7/26/2016	N/A	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP	NS - FP
			BEALB1148MW02	6/16/2017	N	0.61 J	15	100	< 0.80 U	4.9	< 0.10 UJ				
				1/29/2018	N	< 0.80 U	3.5	50 J	< 0.80 U	0.52 J	< 0.10 U				
			BEALB1168MW01	12/17/2015	N FD	< 0.45 U	0.71 J 0.46 J	1.9 J 1.4 J	< 0.48 U < 0.48 U	< 0.57 U < 0.57 U	< 0.040 U < 0.040 U	< 0.040 U < 0.040 U	< 0.040 U < 0.040 U	< 0.040 U < 0.040 U	< 0.080 U < 0.080 U
1168 Jasmine Street	40 Jasmine Street	NFA	BEALB1168MW02	12/17/2015	N	< 0.45 U	< 0.51 U	< 0.96 U	< 0.48 U	< 0.57 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
			BEALB1168MW03	12/17/2015	N	< 0.45 U	< 0.51 U	< 0.96 U	< 0.48 U	< 0.57 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
			BEALB1168MW04	12/17/2015	N	< 0.45 U	< 0.51 U	< 0.96 U	< 0.48 U	< 0.57 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
1186 Bobwhite Drive	Empty Lot	Pending SCDHEC Decision for NFA	BEALB1186MW01	12/11/2017	N	< 0.80 U	< 0.80 U	0.40 J	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
1192 Bobwhite Drive	Empty Lot	Pending SCDHEC Decision for NFA	BEALB1192MW01	12/7/2017	N	< 0.80 U	< 0.80 U	1.6	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U



						Benzene	Ethylbenzene	Naphthalene	Toluene	Xylenes	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene
Old Laurel Bay Military Housing Area Address	New Laurel Bay Military Housing Area Address	Property Status		(	SCDHEC RBSLs	5	700	25	1000	10000	10	10	10	10	10
riousing Area Address	Housing Area Address		Well ID	Sample Date	Sample Type										
1194 Cardinal Lane	Empty Lot	Pending SCDHEC Decision for NFA	BEALB1194MW01	12/7/2017	N	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
1272 Albatross Drive	59 Albatross Drive	NFA	BEALB1272MW01	7/26/2016	N	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
1352 Cardinal Lane	Empty Lot	Pending SCDHEC Decision for NFA	BEALB1352MW01	12/8/2017	N	< 0.80 U	1.4	12	< 0.80 U	0.47 J	< 0.10 U				
1356 Cardinal Lane	Empty Lot	Pending SCDHEC Decision for NFA	BEALB1356MW01	12/8/2017	N	< 0.80 U	3.9	18	< 0.80 U	2.9	< 0.10 U				
1359 Cardinal Lane	Empty Lot	Pending SCDHEC Decision for LTM	BEALB1359MW01	12/8/2017	N	< 0.80 U	15	110	< 0.80 U	16	< 0.10 U				
360 Cardinal Lane	Empty Lot	Pending SCDHEC Decision for LTM	BEALB1360MW01	12/8/2017	N	2.6	30	100	< 0.80 U	25	< 0.10 U				
1362 Cardinal Lane	Empty Lot	Pending SCDHEC Decision for LTM	BEALB1362MW01	12/8/2017	N FD	4.9 4.7	38 36	170 160	< 0.80 U < 0.80 U	46 43	< 0.10 U < 0.10 U				
1370 Cardinal Lane	Empty Lot	Pending Results of Newly Installed PMW (MW02)	BEALB1370MW01	12/8/2017	N N	< 0.80 U	< 0.80 U	0.43 J	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
1382 Dove Lane	Empty Lot	Pending SCDHEC Decision for NFA	BEALB1382MW01	12/8/2017	N	< 0.80 U	< 0.80 U	1.1	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 UJ	< 0.10 U	< 0.10 UJ
1384 Dove Lane	Empty Lot	Pending SCDHEC Decision for NFA	BEALB1384MW01	12/8/2017	N	0.59 J	3.3	6.9	< 0.80 U	2.1	< 0.10 U				
1385 Dove Lane	Empty Lot	Pending SCDHEC Decision for LTM	BEALB1385MW01	12/8/2017	N	< 0.80 U	19	88	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
1389 Dove Lane	Empty Lot	Pending SCDHEC Decision for LTM	BEALB1389MW01	12/11/2017	N	< 0.80 U	16	82	< 0.80 U	23	< 0.10 U				
1392 Dove Lane	Empty Lot	Pending SCDHEC Decision for LTM	BEALB1392MW01	12/8/2017	N FD	< 0.80 U < 0.80 U	11 11	60 61	0.47 J 0.41 J	42 41	< 0.10 U < 0.10 U				
1393 Dove Lane	Empty Lot	Pending SCDHEC Decision for LTM	BEALB1393MW01	12/11/2017	N	< 0.80 U	10	40	< 0.80 U	4.1	< 0.10 U				
1407 Eagle Lane	Empty Lot	Pending SCDHEC Decision for LTM	BEALB1407MW01	12/11/2017	N FD	< 0.80 U < 0.80 U	4.3 4.4	31 32	44 46	3.5 3.4	< 0.10 U < 0.10 UJ				
411 Eagle Lane	Empty Lot	Pending SCDHEC Decision for NFA	BEALB1411MW01	12/11/2017	N	< 0.80 U	2.5	15	0.72 J	9.6	< 0.10 U				
418 Albatross Drive	Empty Lot	Pending SCDHEC Decision for NFA	BEALB1418MW01	12/7/2017	N	< 0.80 U	1.6	11	< 0.80 U	1.1	0.19 J	< 0.10 UJ	< 0.10 UJ	0.11 J	< 0.10 UJ
1420 Albatross Drive	Empty Lot	Pending SCDHEC Decision for LTM	BEALB1420MW01	12/7/2017	N	< 0.80 U	7.5	33	< 0.80 U	9.6	< 0.10 U				
1426 Albatross Drive	Empty Lot	Pending SCDHEC Decision for NFA	BEALB1426MW01	12/7/2017	N	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
1429 Albatross Drive	Empty Lot	Pending SCDHEC Decision for LTM	BEALB1429MW01	12/7/2017	N	< 0.80 U	9.7	60	< 0.80 U	13	< 0.10 U				
1431 Dove Lane	480 Dove Lane	LTM	BEALB1431MW01	3/24/2017 1/29/2018	N N	< 0.80 < 0.80 U	<b>0.86</b> < 0.80 U	69 29 J	< 0.80 < 0.80 U	< 0.80 < 0.80 U	< 0.10 < 0.10 U	< 0.10 < 0.10 U	< 0.10 < 0.10 U	< 0.10 < 0.10 U	< 0.10 < 0.10 U
1434 Dove Lane	Empty Lot	Pending SCDHEC Decision for NFA	BEALB1434MW01	12/7/2017	N	< 0.80 U	0.50 J	6.5	< 0.80 U	< 0.80 U	0.18 J	< 0.10 UJ	< 0.10 UJ	0.092 J	< 0.10 UJ
1425 David Lane	500 David Land	LTM	BEALB1435MW01	3/23/2017	N	7.4	65	240	13	300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1435 Dove Lane	500 Dove Lane	LIM	BEALB1435WWU1	1/29/2018	N FD	5.2 4.8	42 40	180 J 150 J	2.9 2.5	77 64	< 1.0 U < 0.50 U				
1436 Dove Lane	Empty Lot	Pending SCDHEC Decision for NFA	BEALB1436MW01	12/7/2017	N	< 0.80 U	0.49 J	9.0	< 0.80 U	< 0.80 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
440 Dove Lane	Empty Lot	Pending SCDHEC Decision for NFA	BEALB1440MW01	12/7/2017	N	< 0.80 U	1.6	3.4	< 0.80 U	3.0	< 0.10 U				
1442 Dove Lane	Empty Lot	Pending SCDHEC Decision for NFA	BEALB1442MW01	12/7/2017	N	< 0.80 U	0.79 J	6.2	57	0.70 J	< 0.10 U				
1444 Dove Lane	Empty Lot	Pending SCDHEC Decision for NFA	BEALB1444MW01	12/7/2017	N	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.10 UJ				
1452 Cardinal Lane	567 Cardinal Lane	Pending Results of Newly Installed PMW (MW02)	BEALB1452MW01	3/23/2017	N	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10



						Benzene	Ethylbenzene	Naphthalene	Toluene	Xylenes	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene
Old Laurel Bay Military Housing Area Address	New Laurel Bay Military Housing Area Address	Property Status		S	CDHEC RBSLs	5	700	25	1000	10000	10	10	10	10	10
<b>3</b>	3		Well ID	Sample Date	Sample Type										
				8/2/2013	N	3.3	13	37	0.33 J	19	< 0.11 UJ	< 0.11 UJ	< 0.11 UJ	< 0.11 UJ	< 0.11 UJ
			BEALB1472MW130	0/2/2010	FD	3.2	13	37	0.32 J	18	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U
			BEALB1472WW100	9/12/2014	N	5.6	17	36	0.40 J	14 J	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.80 U
				0/12/2011	FD	5.8	19	40	0.42 J	18	< 0.40 U	< 0.40 U	< 0.40 U	< 0.40 U	< 0.80 U
				3/24/2017	N	2.9	41	110	1.1	110	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
					FD	2.6	39	110	1.0	100	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
			BEALB1472MW130R	6/19/2017	N	2.6	NA	74	NA	NA	NA	NA	NA	NA	NA
				1/30/2018	N	2.3	NA	62 J	NA	NA	NA	NA	NA	NA	NA
			BEALB1472MW131		FD	2.4	NA	56 J	NA	NA	NA	NA	NA	NA	NA
		BEALB1472MW131  BEALB1472MW132  BEALB1472MW132  BEALB1472MW143  BEALB1472MW143	8/2/2013	N	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	
			BEALB1472MW130R 6/1  1/3  8/2  9/1  6/1  1/3  BEALB1472MW131 9/1  BEALB1472MW132 9/1  6/1  1/3  8/2  BEALB1472MW134 9/1  BEALB1472MW143 6/1	9/12/2014	N	< 0.40 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.40 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
					N			< 0.80 U	NA	NA	NA	NA	NA	NA	NA
					N	< 0.80 U		0.98 J	NA	NA	NA	NA	NA	NA	NA
					N	< 0.25 U		< 0.25 U	< 0.25 U	< 0.25 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
1472 Cardinal Lane	743 Cardinal Lane	LTM		BFAI B1472MW132		N			< 0.20 U	< 0.20 U	< 0.40 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U
			DE/IED 1 1/ ZIMIV 102		N	< 0.80 U	NA	< 0.80 U	NA	NA	NA	NA	NA	NA	NA
					N	< 0.80 U	NA	< 0.80 U	NA	NA	NA	NA	NA	NA	NA
		BEALB1472MW131  6/19/2017  N	3.8	< 0.25 U	< 0.25 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U	< 0.11 U					
			BEALB1472MW131  LTM  BEALB1472MW132  BEALB1472MW143		N	< 0.40 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.40 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
					N	< 0.80 U		< 0.80 U	NA	NA	NA	NA	NA	NA	NA
				1/29/2018	N	< 0.80 U	NA	< 0.80 U	NA	NA	NA	NA	NA	NA	NA
				8/2/2013	N	< 0.25 U	< 0.25 U	4.1	< 0.25 U	< 0.25 U	< 0.11 UJ	< 0.11 UJ	< 0.11 UJ	< 0.11 UJ	< 0.11 UJ
			BEALB1472MW144	9/12/2014	N	< 0.40 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.40 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
			DEALD 147 ZIVIVV 144	6/16/2017	N	< 0.80 U	NA	< 0.80 U	NA	NA	NA	NA	NA	NA	NA
				1/29/2018	N	< 0.80 U	NA	< 0.80 U	NA	NA	NA	NA	NA	NA	NA
				8/1/2013	N	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U
			BEALB1472MW145	9/12/2014	N	< 0.40 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.40 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.040 U	< 0.080 U
			DEALB14/ZIVIVV145	6/16/2017	N	< 0.80 UJ	NA	< 0.80 U	NA	NA	NA	NA	NA	NA	NA
				1/26/2018	N	< 0.80 U	NA	< 0.80 U	NA	NA	NA	NA	NA	NA	NA

All units are in micrograms per liter (µg/L)
Bold font indicates the analyte was detected.
Bold font and shading indicates the concentration exceeds the SC RBSL.

\* - The VOC analyses were inadvertently cancelled for sample BEAL148MW01 in January 2018; however, there was a duplicate sample collected at this location (BEALB148MW01-a). The results of the duplicate sample are valid, and therefore the duplicate sample result will be utilized as the primary sample result.

FP - free product

J - Estimated Value

N/A - not applicable
NA - not analyzed
NS - not sampled

Sample Type N = normal sample, FD = duplicate sample U or < = Non-detect at laboratory detection limit



# Appendix F Laboratory Analytical Report - Vapor



### ALS ENVIRONMENTAL

### RESULTS OF ANALYSIS

Page 1 of 1

Client: AECOM

 Client Sample ID:
 BEALB119NS01GS20170508
 ALS Project ID: P1702386

 Client Project ID:
 WE56 - 57 Banyan Drive / 60342031.FI.WI
 ALS Sample ID: P1702386-001

Test Code: EPA TO-15 Date Collected: 5/8/17
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date Received: 5/18/17
Analyst: Cory Lewis Date Analyzed: 5/22/17

Sampling Media: 1.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)

Test Notes:

Container ID: 1SC00986

Initial Pressure (psig): -1.71 Final Pressure (psig): 6.55

Canister Dilution Factor: 1.64

CAS#	Compound	Result µg/m³	LOQ μg/m³	LOD μg/m³	MDL μg/m³	Data Qualifier
71-43-2	Benzene	1.7	2.1	1.7	0.66	U
108-88-3	Toluene	1.4	2.1	1.7	0.70	J
100-41-4	Ethylbenzene	1.7	2.1	1.7	0.66	${f U}$
179601-23-1	m,p-Xylenes	3.5	4.1	3.5	1.2	$\mathbf{U}$
95-47-6	o-Xylene	1.7	2.1	1.7	0.62	${f U}$
91-20-3	Naphthalene	1.4	2.1	1.8	0.74	J

U = Undetected at the limit of detection: The associated data value is the limit of detection, adjusted by any dilution factor used in the analysis. LOQ = Limit of Quantitation - The minimum quantity of a target analyte that can be confidently determined by the referenced method. J = The result is an estimated concentration that is less than the LOQ but greater than or equal to the MDL.

## Appendix G Regulatory Correspondence





### C. Earl Hunter, Commissioner

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

May 12, 2009

Commanding Officer

ATTN: S-4 NREAO (Craig Ehde)

**MCAS** 

PO Box 55001

Beaufort, SC 29904-5001

Re:

MCAS – Laurel Bay Housing –119 Banyan St.

Site ID # 04175

UST Closure Report received 24 April 2009

Beaufort County

Dear Mr. Ehde:

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

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

Should you have any questions, please contact me at 803-896-4179 or cookejt@dhec.sc.gov.

Sincerely,

fan T. Cooke, Hydrogeologist

AST Petroleum Restoration & Site Environmental Investigations Section

Division of Site Assessment, Remediation & Revitalization

Bureau of Land and Waste Management

m/l Cooke

cc: Region 8 District EQC



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

Division of Waste Management Bureau of Land and Waste Management

August 6, 2015

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

RE: Approval Response to Comments and Concurrence with Final Initial Groundwater Investigation Report-July 2013

Laurel Bay Military Housing Area Multiple Properties

Dated June 2015

Dear Mr. Drawdy,

The South Carolina Department of Health and Environmental Control (the Department) received groundwater data in the above referenced Groundwater Investigation Report for the addresses attached. The regulatory authority for the investigation and cleanup of releases from these tank systems is the South Carolina Pollution Control Act (S.C. Code Ann. §48-1-10 et seq., as amended).

Per the Department's request, groundwater samples were collected from the attached referenced addresses. The Department reviewed the groundwater data and previous investigations and it agrees with the conclusions and recommendations included in the document. To further assess the impact to groundwater, permanent wells should be installed at the 10 stated addresses. For the remaining 25 addresses, there is no indication of contamination on the property and therefore no further investigation is required at this time.

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

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

Sincerely,

Laurel Petrus

FURX

RCRA Federal Facilities Section

Attachment: Specific Property Recommendations

Cc: Russell Berry, EQC Region 8 (via email)

Shawn Dolan, Resolution Consultants (via email) Bryan Beck, NAVFAC MIDATLANTIC (via email)

Craig Ehde (via email)

Attachment to: Petrus to Drawdy

Subject: Draft Final Initial Groundwater Investigation Report-July 2013

Specifice Property Recommendations Dated August 6, 2015

### Draft Final Initial Groundwater Investigation Report for (35 addresses/38 tanks)

119 Banyan	156 Laurel Bay
128 Banyan	1033 Foxglove
132 Banyan	1055 Gardenia
135 Birch	1059 Gardenia
148 Laurel Bay	1168 Jasmine
15 Banyan	386 Acorn
	395 Acorn
116 Banyan	399 Acorn
120 Banyan	
124 Danisan	1021 Favalous
124 Banyan	1021 Foxglove
125 Banyan	1027 Foxglove
125 Banyan 136 Birch	
	1027 Foxglove 1030 Foxglove
25 Banyan 36 Birch 40 Laurel Bay	1027 Foxglove 1030 Foxglove 1032 Foxglove
25 Banyan 36 Birch 40 Laurel Bay 44 Laurel Bay	1027 Foxglove 1030 Foxglove 1032 Foxglove 1053 Gardenia
25 Banyan 36 Birch 40 Laurel Bay 44 Laurel Bay 52 Laurel Bay	1027 Foxglove 1030 Foxglove 1032 Foxglove 1053 Gardenia 1058 Gardenia



July 21, 2016

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

Dear Mr. Drawdy:

The South Carolina Department of Health and Environmental Control (the Department) received groundwater data from permanent monitoring well installations in the Draft Final Groundwater Assessment Report November and December 2015, Laurel Bay Military Housing Area for the 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 the Department's request, groundwater samples were collected from the attached referenced addresses. The Department reviewed the groundwater data and previous investigations and it agrees with the conclusions and recommendations included in the document. To further assess the impact to groundwater, groundwater monitoring should begin at the eight stated addresses. For the remaining two addresses, there is no indication of contamination on the property and therefore no further investigation is required at this time.

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

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

Sincerely,

LIRK

Laurel Petrus, Environmental Engineer Associate

Bureau of Land and Waste Management

Attachment: Specific Property Recommendations

Cc: Russell Berry, EQC Region 8

> Shawn Dolan, Resolution Consultants Bryan Beck, NAVFAC MIDATLANTIC

Attachment to: Petrus to Drawdy
Subject: Draft Final Groundwater Assment Report-November and December 2015
Specific Property Recommendations
Dated July 21, 2016

Draft Final Initial Groundwater Assessment Report for (10 addresses)

119 Banyan Drive	148 Laurel Bay Blvd	
128 Banyan Drive	156 Laurel Bay Blvd	
132 Banyan Drive	1055 Gardenia Drive	
135 Birch Drive	1059 Gardenia Drive	
No Further Action recommendation (	2 addresses):	
	1168 Jasmine Street	



September 24, 2018

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

RE: Approval Draft Final 2018 Groundwater Monitoring Report (LTM) Revision 1
Approved NFA 119 Banyan Drive and 1055 Gardenia Drive

Laurel Bay Military Housing Area

Dear Mr. Drawdy:

The South Carolina Department of Health and Environmental Control (DHEC) received the above referenced response to comments and Revision 1 change pages for the report on August 9, 2018. 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).

DHEC has reviewed the response to comments and revised report pages. Based on this review, DHEC has not generated additional comments. DHEC agrees with the recommendation of NFA for 119 Banyan Drive and 1055 Gardenia Drive.

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,

Laurel Petrus

Lal Rt

Department of Defense Corrective Action Section

Cc: EO

**EOC Region 8** 

Shawn Dolan, Resolution Consultants Bryan Beck, NAVFAC MIDLANT



August 29, 2018

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

RE:

Approval Draft Final Letter Report-Petroleum Vapor Intrusion Investigations

April 2017 through February 2018 Laurel Bay Military Housing Area

Dear Mr. Drawdy:

The South Carolina Department of Health and Environmental Control (DHEC) received the Vapor Intrusion Investigation Report for multiple properties on July 30, 2018. 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).

DHEC has reviewed the Investigation Report and based on this review, DHEC did not generate any comments on the report. 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,

Laurel Petrus, Environmental Engineer Associate Bureau of Land and Waste Management

Cc:

**EQC Region 8** 

Junel Petrus

Shawn Dolan, Resolution Consultants Bryan Beck, NAVFAC MIDLANT