SUMMARY REPORT
181 WEST ALTHEA STREET (FORMERLY 770 WEST ALTHEA STREET)
LAUREL BAY MILITARY HOUSING AREA
MARINE CORPS AIR STATION BEAUFORT
BEAUFORT, SC

Revision: 0
Prepared for:

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

and

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

JUNE 2021

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Prepared by:

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

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

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Appendices

List of Acronyms

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

1.0 INTRODUCTION

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

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

This report summarizes the results the environmental investigation activities associated with the storage of home heating oil and the potential release of petroleum constituents at the referenced property. Based on the results of the investigation, a No Further Action (NFA) determination has been made by the South Carolina Department of Health and Environmental Control (SCDHEC) for 181 West Althea Street (Formerly 770 West Althea Street). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

- Background information;
- Sampling activities and results; and
- A determination of the property status.

1.1 Background Information

The LBMH area is located approximately 3.5 miles west of MCAS Beaufort. The area is approximately 970 acres in size and serves as an enlisted and officer family housing area. The area is configured with single family and duplex residential structures, and includes recreation, open space, and community facilities. The community includes approximately 1,300 housing units, including legacy Capehart style homes and newer duplex style homes. The housing area

is bordered on the west by salt marshes and the Broad River, and to the north, east and south by uplands. Forested areas lie along the northern and northeastern borders.

Capehart style homes within the LBMH area were formerly heated using heating oil stored in USTs at each residence. There were 1,100 Capehart style housing units in the LBMH area. The newer duplex homes within the LBMH area never utilized heating oil tanks. Heating oil has not been used at Laurel Bay since the mid-1980s. As was the accepted practice at the time, USTs were drained, filled with dirt, capped, and left in place when they were removed from service. Residential USTs are not regulated in the State of South Carolina (i.e., there are no federal or state laws governing installation, management, or removal).

In 2007, MCAS Beaufort began a voluntary program to remove the unregulated, residential USTs and conduct sampling activities to determine if, and to what extent, petroleum constituents may have impacted the surrounding environment. MCAS Beaufort coordinated with SCDHEC to develop removal procedures that were consistent with procedural requirements for regulated USTs. All tank removal activities and follow-on actions are conducted in coordination with SCDHEC. To date, all known USTs have been removed from all residential properties within the LBMH area.

1.2 UST Removal and Assessment Process

During the UST removal process, a soil sample was collected from beneath the UST excavations (approximately 4 to 6 feet [ft] below ground surface [bgs]) and analyzed for a predetermined list of constituents of potential concern (COPCs) associated with the petroleum compounds found in home heating oil. These COPCs, derived from the *Quality Assurance Program Plan (QAPP) for the Underground Storage Tank Management Division, Revision 3.1* (SCDHEC, 2016) and the *Underground Storage Tank Assessment Instructions for Permanent Closure and Change-In-Service,* (SCDHEC, 2018), are as follows:

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

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

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

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

2.0 SAMPLING ACTIVITIES AND RESULTS

The following section presents the sampling activities and associated results for 181 West Althea Street (Formerly 770 West Althea Street). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 770 West Althea Street* (MCAS Beaufort, 1999). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On September 9, 1999, two 280 gallon heating oil USTs were removed from the front yard at 181 West Althea Street (Formerly 770 West Althea Street). The former UST locations are indicated on the sketch of the UST Assessment Report (Appendix B). The USTs were 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 removals. According to the UST Assessment Report (Appendix B), the depth to the base of the

USTs were not specified and a single soil sample was collected for each. The samples were collected from the fill port side of the former USTs to represent a worst case scenario.

Following UST removal, a soil sample was collected from the base of each excavation and 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 locations (Tanks 1 and 2) were used by MCAS Beaufort, in consultation with SCDHEC, to determine a path forward (i.e., additional sampling or NFA) for the property. The soil results collected from the former UST locations (Tanks 1 and 2) at 181 West Althea Street (Formerly 770 West Althea Street) were less than the SCDHEC RBSLs, which indicated the subsurface was not impacted by COPCs associated with the former USTs at concentrations that presented a potential risk to human health and the environment.

3.0 PROPERTY STATUS

Based on the analytical results for soil, SCDHEC made the determination that NFA was required for 181 West Althea Street (Formerly 770 West Althea Street). This NFA determination was obtained in a letter dated December 14, 2016. SCDHEC's NFA letter is provided in Appendix C.

4.0 REFERENCES

Marine Corps Air Station Beaufort, 1999. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 770 West Althea Street, Laurel Bay Military Housing Area*, September 1999.

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

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

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

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

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

Table

Table 1
Laboratory Analytical Results - Soil
181 West Althea Street (Formerly 770 West Althea Street)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs [(1)]	Results Sample Collected 09/09/99
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)		
Benzene	0.003	ND
Ethylbenzene	1.15	ND
Naphthalene	0.036	ND
Toluene	0.627	ND
Xylenes, Total	13.01	ND
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (mg/kg)		
Benzo(a)anthracene	0.66	ND
Benzo(b)fluoranthene	0.66	ND
Benzo(k)fluoranthene	0.66	ND
Chrysene	0.66	ND
Dibenz(a,h)anthracene	0.66	ND

Notes:

[(1)] South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 3.0 and 3.1 (SCDHEC, May 2015 and SCDHEC, February 2016) and the Underground Storage Tank Assessment Guidelines (SCDHEC, February 2006).

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

mg/kg - milligram per kilogram

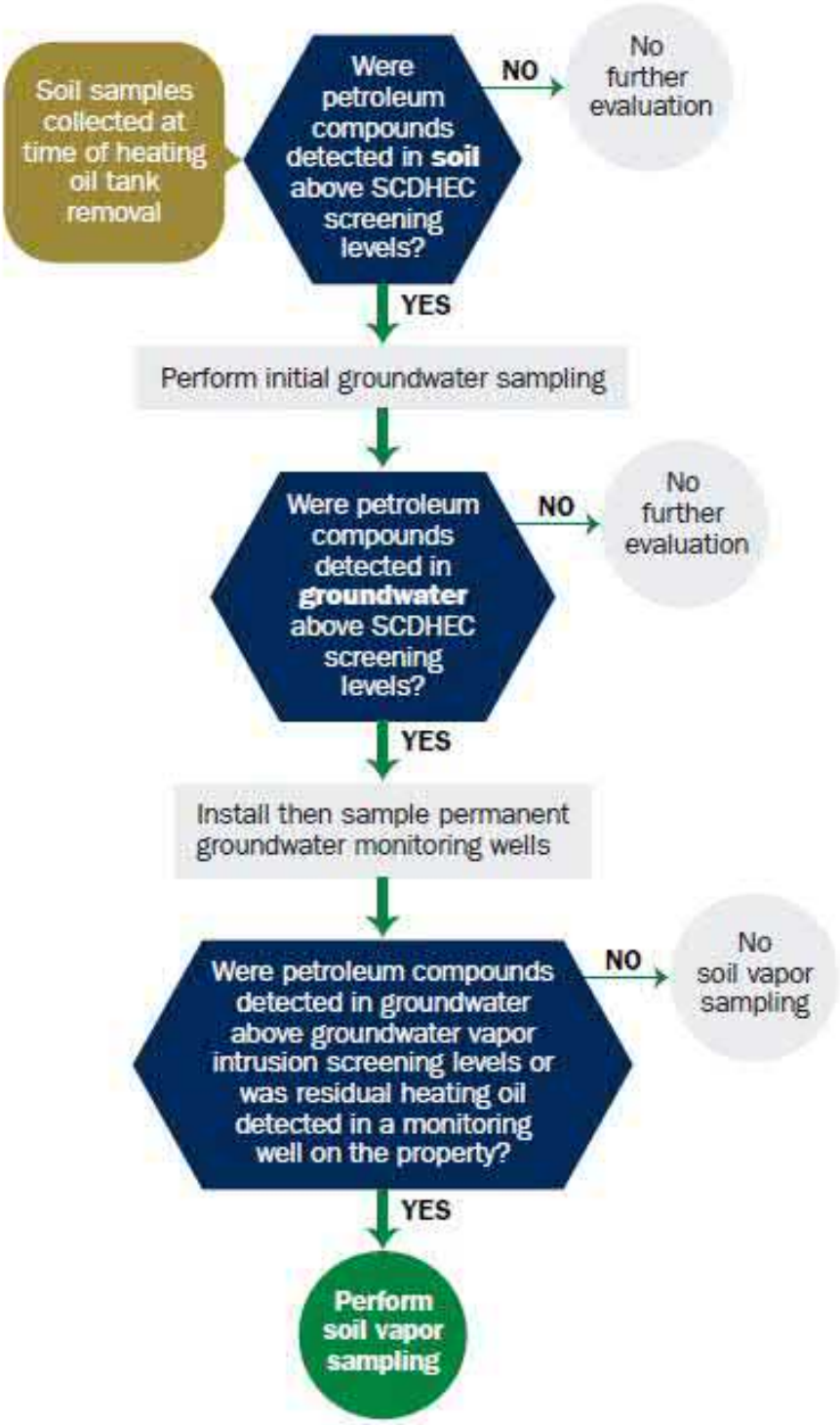
ND - not detected at the reporting limit (or method detection limit if shown on the laboratory report). The laboratory report is provided in Appendix B.

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

Appendix A
Multi-Media Selection Process for LBMH

CDM - AECOM
Multimedia Joint Venture



Appendix A - Multi-Media Selection Process for LBMH

Appendix B
UST Assessment Report

CDM - AECOM
Multimedia Joint Venture

M60169.AR.001350
MCAS BEAUFORT
5090.3a

HEATING OIL UNDERGROUND STORAGE TANK REMOVAL LABORATORY DATA FOR 770 ALTHEA STREET MILITARY HOUSING AREA WITH TRANSMITTAL MCAS BEAUFORT SC
4/20/2009
U S MARINE CORPS

UNITED STATES MARINE CORPS
MARINE CORPS AIR STATION
BEAUFORT, SOUTH CAROLINA 29904-5001

IN REPLY REFER TO
5900
NREAO/057
April 20, 2009

SCDHEC-BLWM
Attn: Ms. Jan T. Cooke
2600 Bull Street
Columbia, South Carolina 29201

Dear Ms. Cooke:

Subject: Heating Oil UST Removal Laboratory Data for Laurel Bay Military Housing, Marine Corps Air Station (MCAS) Beaufort, South Carolina

Enclosed are laboratory results for heating oil UST removals at 6 homes located in Laurel Bay Military Housing, MCAS Beaufort. The addresses for the homes included in this package are: 345 Ash, 378 Aspen, 603 Dahlia, 768 Althea, 110 Althea, and 772 Althea. Limited information is available for these tank removals as they occurred in 1999. The only information available is laboratory data and general locations of the tanks removed. One discrepancy is the report for 770 Althea. A fax that lists these tank removals indicates that 2 tanks were removed at 764 Althea and hand writing on the fax suggests that the actual address may be 766 Althea. We believe the actual house the fax and laboratory reports are referring to is 770 Althea. Three tanks were removed at 766 Althea in 1999 that required a period of ground water monitoring (SCDHEC ID# 01439). A no further action decision was rendered for the site by SCDHEC in a letter dated October 10, 2003. In addition, in the 2006 tank removal event, no tank was discovered at 770 Althea; however a tank was found and removed at 764 Althea (SCHEC ID# 03748). Again, based on this information, we believe that the actual house the enclosed fax and laboratory report is referring to is 770 Althea.

One soil sample was submitted from each tank pulled and analyzed for volatile organic compounds (VOCs) by method 8260 and for semi-volatile organic compounds by method 8270. No petroleum compounds were detected in any of the soil samples. Methylene chloride was detected in all of the samples at nearly identical levels. Given the similar levels detected and the

common occurrence of methylene chloride as a laboratory contaminant, we believe the methylene chloride detected in the soil samples is the result of laboratory contamination.

If you have any questions regarding this information please contact Craig Ehde at 843-228-7317 or craig.ehde@usmc.mil.

Sincerely,

William A Drawdy
Natural Resources and
Environmental Affairs Officer
By Direction of the
Commanding Officer

Enclosure: Assessment Reports for the following residences: 345 Ash, 378 Aspen, 603 Dahlia, 768 Althea, 110 Althea, and 772 Althea.

Cc: Mr. Russell Berry, EQC Low Country District (w/o enclosures)

* RAY JAMES
POLICE INSPECTOR

R & G CONSTRUCTION CO.
MCAS Field Office
584 Kimes Avenue
P.O. Box 9191
Beaufort, SC 29904-9191

BILL DENNIS

(843) 521-9773 Phone (843) 521-9115 Fax

facsimile transmittal

To: Jim Reeves Fax: 522-7032

From: Beth Date: Tuesday, June 22, 1999

Re: Locations of tanks Pages: 1 including cover

REF:

Urgent ☐ For Review ☐ Please Comment ☐ Please Reply ☑ For Your Info

COMMENTS:

Following are locations where tanks have been removed:

603 Dahlia ✓

378 Aspen ✓

345 Ash ✓

768 Althea ✓

772 Althea ✓

* 764 Althea (2 tanks removed) Most likely 770 Althea CME 4/20/09

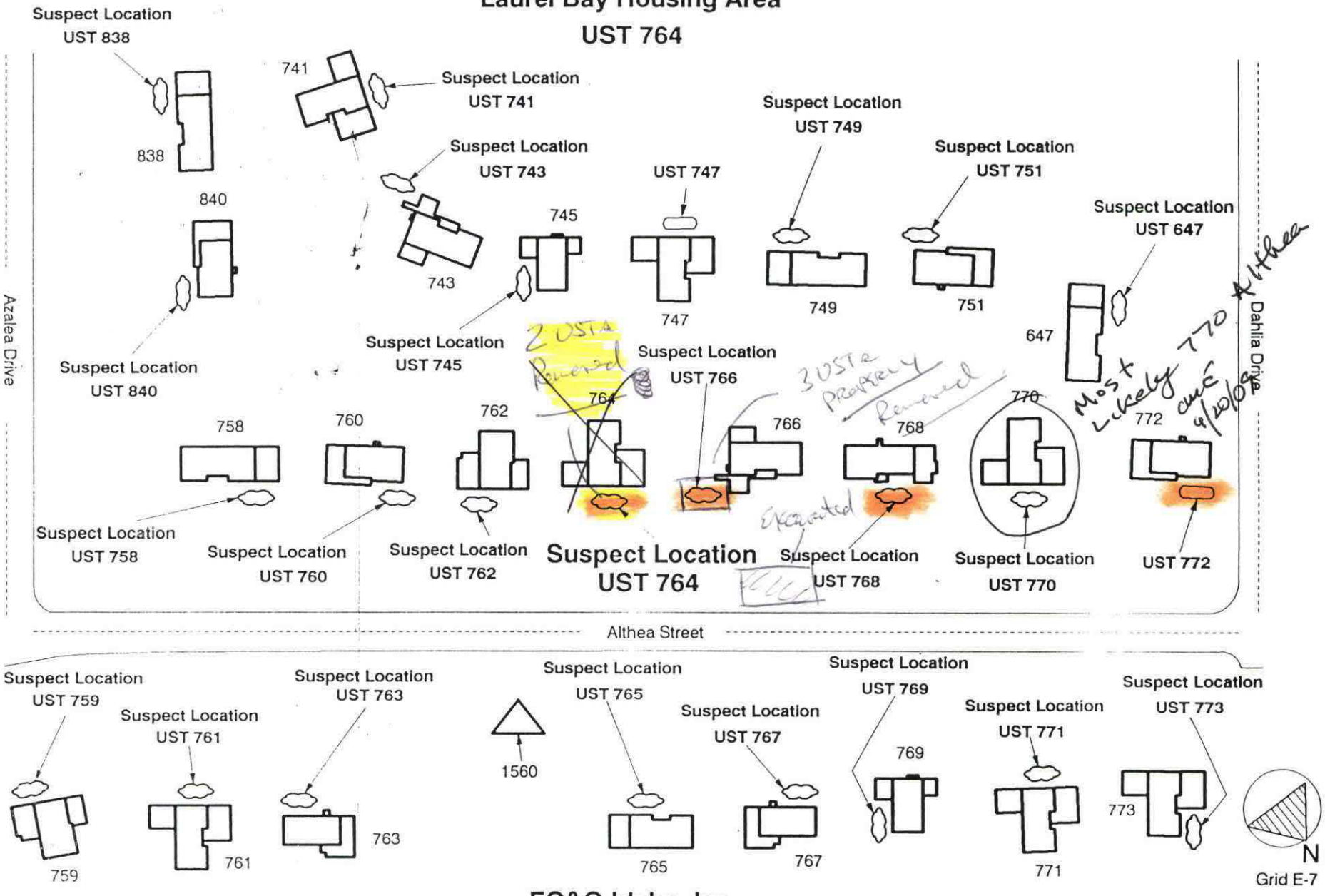
UST removed

* 766 Althea Fuel Release

* Per Mary Ellen Smith - the star UST may be at same house - possibly up

JUN 22 '99 7:20 843 521 9115 PAGE.001

MCAS Beaufort
Laurel Bay Housing Area
UST 764



EG&G Idaho, Inc.

Site sketches are schematic representations indicating approximate locations and orientations.

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Most likely 720 Althea cut
764 ALTHEA @ L. BAY 4/20/09

USACE-SAVANNAH DISTRICT 8995
MARK HARVISON
100 WEST OGLETHORPE AVE
SAVANNAH, GA 31402

Project: D0208
Project Name: LAUREL BAY UST
Sampler: J. SMITH

Lab Number: 99-A138221
Sample ID: 764 UST1
Sample Type: Soil
Site ID:

Date Collected: 9/ 9/99
Time Collected: 9:50
Date Received: 9/10/99
Time Received: 8:30

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS										
Acenaphthene	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
Acenaphthylene	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
Anthracene	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
Benzo(a)anthracene	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
Benzo(a)pyrene	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
Benzo(b)fluoranthene	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
Benzo(g,h,i)perylene	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
Benzo(k)fluoranthene	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
4-Bromophenylphenylether	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
Butylbenzylphthalate	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
Carbazole	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
4-Chloro-3-methylphenol	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
4-Chloroaniline	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
bis(2-Chloroethoxy)methane	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
bis(2-Chloroethyl)ether	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
bis(2-Chloroisopropyl)ether	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
2-Chloronaphthalene	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
2-Chlorophenol	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
4-Chlorophenylphenylether	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
Chrysene	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
Dibenzofuran	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
Dibenz(a,h)anthracene	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
1,2-Dichlorobenzene	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
1,3-Dichlorobenzene	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
1,4-Dichlorobenzene	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
3,3'-Dichlorobenzidine	ND	mg/kg	0.815	0.660	1	9/17/99	9:48	M.Goodrich	8270C	4973
2,4-Dichlorophenol	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
Diethylphthalate	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
2,4-Dimethylphenol	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
Dimethylphthalate	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
Di-n-butylphthalate	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
4,6-Dinitro-2-methylphenol	ND	mg/kg	1.02	0.825	1	9/17/99	9:48	M.Goodrich	8270C	4973
2,4-Dinitrophenol	ND	mg/kg	1.02	0.825	1	9/17/99	9:48	M.Goodrich	8270C	4973
2,4-dinitrotoluene	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
2,6-Dinitrotoluene	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A138221
Sample ID: 764 UST1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Di-n-octylphthalate	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
Fluoranthene	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
Fluorene	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
Hexachlorobenzene	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
Hexachlorobutadiene	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
Hexachlorocyclopentadiene	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
Hexachloroethane	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
Isophorone	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
2-Methylnaphthalene	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
2-Methylphenol	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
m,p-Methylphenol	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
Naphthalene	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
2-Nitroaniline	ND	mg/kg	1.02	0.825	1	9/17/99	9:48	M.Goodrich	8270C	4973
3-Nitroaniline	ND	mg/kg	1.02	0.825	1	9/17/99	9:48	M.Goodrich	8270C	4973
4-Nitroaniline	ND	mg/kg	1.02	0.825	1	9/17/99	9:48	M.Goodrich	8270C	4973
Nitrobenzene	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
2-Nitrophenol	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
4-Nitrophenol	ND	mg/kg	1.02	0.825	1	9/17/99	9:48	M.Goodrich	8270C	4973
N-nitrosodi-n-propylamine	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
N-nitrosodiphenylamine	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
Pentachlorophenol	ND	mg/kg	1.02	0.825	1	9/17/99	9:48	M.Goodrich	8270C	4973
Phenanthrene	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
Phenol	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
Pyrene	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
Bis(2-ethylhexyl)phthalate	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
1,2,4-Trichlorobenzene	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
2,4,5-Trichlorophenol	ND	mg/kg	1.02	0.825	1	9/17/99	9:48	M.Goodrich	8270C	4973
2,4,6-Trichlorophenol	ND	mg/kg	0.407	0.330	1	9/17/99	9:48	M.Goodrich	8270C	4973
VOLATILE ORGANICS										
Acetone	ND	mg/kg	0.0112	0.0091	1	9/11/99	21:37	M.Cathey	8260B	5553
Acrolein	ND	mg/kg	0.0112	0.0091	1	9/11/99	21:37	M.Cathey	8260B	5553
Acrylonitrile	ND	mg/kg	0.0112	0.0091	1	9/11/99	21:37	M.Cathey	8260A	5553
Benzene	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
Bromobenzene	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
Bromochloromethane	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
Bromoform	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
Bromomethane	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
2-Butanone	ND	mg/kg	0.0112	0.0091	1	9/11/99	21:37	M.Cathey	8260B	5553
n-Butylbenzene	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
sec-Butylbenzene	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
t-Butylbenzene	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
Carbon disulfide	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A138221
Sample ID: 764 UST1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Carbon tetrachloride	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
Chlorobenzene	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
Chloroethane	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
2-Chloroethylvinylether	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
Chloroform	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
Chloromethane	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
2-Chlorotoluene	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
4-Chlorotoluene	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0112	0.0091	1	9/11/99	21:37	M.Cathey	8260B	5553
Dibromochloromethane	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
1,2-Dibromoethane	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
Dibromomethane	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
1,4-Dichloro-2-butene	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
1,2-Dichlorobenzene	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
1,3-Dichlorobenzene	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
1,4-Dichlorobenzene	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
Dichlorodifluoromethane	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
1,1-Dichloroethane	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
1,2-Dichloroethane	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
1,1-Dichloroethene	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
cis-1,2-Dichloroethene	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
trans-1,2-Dichloroethene	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
1,2-Dichloropropane	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
1,3-Dichloropropane	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
2,2-Dichloropropane	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
1,1-Dichloropropene	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
cis-1,3-Dichloropropene	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
trans-1,3-Dichloropropene	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
Ethylbenzene	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
Hexachlorobutadiene	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
2-Hexanone	ND	mg/kg	0.0112	0.0091	1	9/11/99	21:37	M.Cathey	8260B	5553
Iodomethane	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
Isopropylbenzene	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
4-Isopropyltoluene	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
Methyl methacrylate	ND	mg/kg	0.0112	0.0091	1	9/11/99	21:37	M.Cathey	8260B	5553
4-Methyl-2-pentanone	ND	mg/kg	0.0112	0.0091	1	9/11/99	21:37	M.Cathey	8260B	5553
Methylene chloride	0.0175	mg/kg	0.0112	0.0091	1	9/11/99	21:37	M.Cathey	8260B	5553
Naphthalene	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
n-Propylbenzene	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
Styrene	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
Tetrachloroethene	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
Toluene	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553

SPECIALIZED ASSAYS, IN
2960 Foster Creighton Dr.
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ANALYTICAL REPORT

Laboratory Number: 99-A138221
Sample ID: 764 UST1

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
1,2,3-Trichlorobenzene	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
1,2,4-Trichlorobenzene	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
1,1,1-Trichloroethane	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
1,1,2-Trichloroethane	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
Trichloroethene	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
1,2,3-Trichloropropane	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
1,2,4-Trimethylbenzene	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
1,3,5-Trimethylbenzene	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
Vinyl acetate	ND	mg/kg	0.0112	0.0091	1	9/11/99	21:37	M.Cathey	8260B	5553
Vinyl chloride	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
Xylenes	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
Bromodichloromethane	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
Trichlorofluoromethane	ND	mg/kg	0.0022	0.0018	1	9/11/99	21:37	M.Cathey	8260B	5553
Methyl-t-butyl ether	ND	mg/kg	0.0112	0.0050	1	9/11/99	21:37	M.Cathey	8260B	5553
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	81.	%			1	9/16/99	11:00	A.Bufalino	CLP	1508

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
DRO's	30.2 gm	1.0 ml	9/15/99	M. Cauthen	3550
Volatile Organics	5.5 g	5.0 ml	9/10/99	M.Minellok	5035

Surrogate	% Recovery	Target Range
surr-1,2-Dichloroethane, d4	109.	48. - 160.
surr-Toluene d8	108.	79. - 119.
surr-4-Bromofluorobenzene	94.	69. - 135.
surr-Dibromofluoromethane	123.	63. - 135.
surr-Nitrobenzene-d5	49.	20. - 110.
surr-2-Fluorobiphenyl	53.	18. - 110.
surr-Terphenyl d14	62.	27. - 128.
surr-Phenol d5	62.	10. - 111.
surr-2-Fluorophenol	53.	10. - 107.
surr-2,4,6-Tribromophenol	58.	14. - 110.

SPECIALIZED ASSAYS, INC.
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Nashville, TN 37204-0566
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ANALYTICAL REPORT

most likely 770 A Althea Cir
764 ALTHEA @ L. BAY 4/20/09

USACE-SAVANNAH DISTRICT 8995
MARK HARVISON
100 WEST OGLETHORPE AVE
SAVANNAH, GA 31402

Project: D0208
Project Name: LAUREL BAY UST
Sampler: J. SMITH

Lab Number: 99-A138222
Sample ID: 764 UST2
Sample Type: Soil
Site ID:

Date Collected: 9/ 9/99
Time Collected: 10:05
Date Received: 9/10/99
Time Received: 8:30

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS										
Acenaphthene	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
Acenaphthylene	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
Anthracene	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
Benzo(a)anthracene	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
Benzo(a)pyrene	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
Benzo(b)fluoranthene	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
Benzo(g,h,i)perylene	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
Benzo(k)fluoranthene	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
4-Bromophenylphenylether	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
Butylbenzylphthalate	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
Carbazole	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
4-Chloro-3-methylphenol	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
4-Chloroaniline	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
bis(2-Chloroethoxy)methane	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
bis(2-Chloroethyl)ether	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
bis(2-Chloroisopropyl)ether	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
2-Chloronaphthalene	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
2-Chlorophenol	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
4-Chlorophenylphenylether	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
Chrysene	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
Dibenzofuran	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
Dibenz(a,h)anthracene	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
1,2-Dichlorobenzene	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
1,3-Dichlorobenzene	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
1,4-Dichlorobenzene	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
3,3'-Dichlorobenzidine	ND	mg/kg	0.904	0.660	1	9/17/99	10:23	M.Goodrich	8270C	4973
2,4-Dichlorophenol	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
Diethylphthalate	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
2,4-Dimethylphenol	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
Dimethylphthalate	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
Di-n-butylphthalate	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
4,6-Dinitro-2-methylphenol	ND	mg/kg	1.13	0.825	1	9/17/99	10:23	M.Goodrich	8270C	4973
2,4-Dinitrophenol	ND	mg/kg	1.13	0.825	1	9/17/99	10:23	M.Goodrich	8270C	4973
2,4-dinitrotoluene	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
2,6-Dinitrotoluene	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973

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ANALYTICAL REPORT

Laboratory Number: 99-A138222
Sample ID: 764 UST2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Di-n-octylphthalate	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
Fluoranthene	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
Fluorene	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
Hexachlorobenzene	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
Hexachlorobutadiene	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
Hexachlorocyclopentadiene	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
Hexachloroethane	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
Isophorone	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
2-Methylnaphthalene	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
2-Methylphenol	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
m,p-Methylphenol	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
Naphthalene	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
2-Nitroaniline	ND	mg/kg	1.13	0.825	1	9/17/99	10:23	M.Goodrich	8270C	4973
3-Nitroaniline	ND	mg/kg	1.13	0.825	1	9/17/99	10:23	M.Goodrich	8270C	4973
4-Nitroaniline	ND	mg/kg	1.13	0.825	1	9/17/99	10:23	M.Goodrich	8270C	4973
Nitrobenzene	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
2-Nitrophenol	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
4-Nitrophenol	ND	mg/kg	1.13	0.825	1	9/17/99	10:23	M.Goodrich	8270C	4973
N-nitrosodi-n-propylamine	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
N-nitrosodiphenylamine	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
Pentachlorophenol	ND	mg/kg	1.13	0.825	1	9/17/99	10:23	M.Goodrich	8270C	4973
Phenanthrene	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
Phenol	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
Pyrene	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
Bis(2-ethylhexyl)phthalate	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
1,2,4-Trichlorobenzene	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
2,4,5-Trichlorophenol	ND	mg/kg	1.13	0.825	1	9/17/99	10:23	M.Goodrich	8270C	4973
2,4,6-Trichlorophenol	ND	mg/kg	0.452	0.330	1	9/17/99	10:23	M.Goodrich	8270C	4973
VOLATILE ORGANICS										
Acetone	ND	mg/kg	0.0143	0.0100	1	9/11/99	22:13	M.Cathey	8260B	5553
Acrolein	ND	mg/kg	0.0143	0.0100	1	9/11/99	22:13	M.Cathey	8260B	5553
Acrylonitrile	ND	mg/kg	0.0143	0.0100	1	9/11/99	22:13	M.Cathey	8260B	5553
Benzene	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
Bromobenzene	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
Bromochloromethane	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
Bromoform	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
Bromomethane	ND	mg/kg	0.0029	0.0021	1	9/11/99	22:13	M.Cathey	8260B	5553
2-Butanone	ND	mg/kg	0.0143	0.0100	1	9/11/99	22:13	M.Cathey	8260B	5553
n-Butylbenzene	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
sec-Butylbenzene	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
t-Butylbenzene	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
Carbon disulfide	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553

SPECIALIZED ASSAYS, INC
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A138222
Sample ID: 764 UST2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Carbon tetrachloride	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
Chlorobenzene	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
Chloroethane	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
2-Chloroethylvinylether	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
Chloroform	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
Chloromethane	ND	mg/kg	0.0029	0.0021	1	9/11/99	22:13	M.Cathey	8260B	5553
2-Chlorotoluene	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
4-Chlorotoluene	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0143	0.0100	1	9/11/99	22:13	M.Cathey	8260B	5553
Dibromochloromethane	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
1,2-Dibromoethane	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
Dibromomethane	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
1,4-Dichloro-2-butene	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
1,2-Dichlorobenzene	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
1,3-Dichlorobenzene	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
1,4-Dichlorobenzene	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
Dichlorodifluoromethane	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
1,1-Dichloroethane	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
1,2-Dichloroethane	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
1,1-Dichloroethene	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
cis-1,2-Dichloroethene	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
trans-1,2-Dichloroethene	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
1,2-Dichloropropane	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
1,3-Dichloropropane	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
2,2-Dichloropropane	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
1,1-Dichloropropene	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
cis-1,3-Dichloropropene	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
trans-1,3-Dichloropropene	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
Ethylbenzene	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
Hexachlorobutadiene	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
2-Hexanone	ND	mg/kg	0.0143	0.0100	1	9/11/99	22:13	M.Cathey	8260B	5553
Iodomethane	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
Isopropylbenzene	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
4-Isopropyltoluene	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
Methyl methacrylate	ND	mg/kg	0.0142	0.0100	1	9/11/99	22:13	M.Cathey	8260B	5553
4-Methyl-2-pentanone	ND	mg/kg	0.0143	0.0100	1	9/11/99	22:13	M.Cathey	8260B	5553
Methylene chloride	0.0214	mg/kg	0.0143	0.0100	1	9/11/99	22:13	M.Cathey	8260B	5553
Naphthalene	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
n-Propylbenzene	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
Styrene	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
Tetrachloroethene	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
Toluene	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553

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ANALYTICAL REPORT

Laboratory Number: 99-A138222
Sample ID: 764 UST2

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
1,2,3-Trichlorobenzene	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
1,2,4-Trichlorobenzene	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
1,1,1-Trichloroethane	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
1,1,2-Trichloroethane	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
Trichloroethene	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
1,2,3-Trichloropropane	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
1,2,4-Trimethylbenzene	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
1,3,5-Trimethylbenzene	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
Vinyl acetate	ND	mg/kg	0.0143	0.0100	1	9/11/99	22:13	M.Cathey	8260B	5553
Vinyl chloride	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
Xylenes	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
Bromodichloromethane	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
Trichlorofluoromethane	ND	mg/kg	0.0029	0.0020	1	9/11/99	22:13	M.Cathey	8260B	5553
Methyl-t-butyl ether	ND	mg/kg	0.0143	0.0050	1	9/11/99	22:13	M.Cathey	8260B	5553
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	73.	%			1	9/16/99	11:00	A.DuFalino	CLP	1508

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
DRO's	29.9 gm	1.0 ml	9/15/99	M. Cauthen	3550
Volatile Organics	4.8 g	5.0 ml	9/10/99	M.Hinelick	5035

Surrogate	% Recovery	Target Range
surr-1,2-Dichloroethane, d4	105.	48. - 160.
surr-Toluene d8	104.	79. - 119.
surr-4-Bromofluorobenzene	79.	69. - 135.
surr-Dibromofluoromethane	123.	63. - 135.
surr-Nitrobenzene-d5	52.	20. - 110.
surr-2-Fluorobiphenyl	57.	18. - 110.
surr-Terphenyl d14	64.	27. - 128.
surr-Phenol d5	68.	10. - 111.
surr-2-Fluorophenol	58.	10. - 107.
surr-2,4,6-Tribromophenol	60.	14. - 110.

Appendix C
Regulatory Correspondence

Healthy People. Healthy Communities.

December 14, 2016

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

RE: No Further Action
Laurel Bay Underground Storage Tank Assessment Reports

Dear Mr. Drawdy:

The South Carolina Department of Health and Environmental Control (the Department) received the Underground Storage Tanks (USTs) Assessment Reports for the addresses listed in the attachment. The regulatory authority for the investigation and cleanup of releases from these tank systems is the South Carolina Pollution Control Act (S.C. Code Ann. §48-1-10 et seq., as amended).

The Department has reviewed the referenced assessment reports and agrees there is no indication of soil or groundwater contamination on these properties 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, Environmental Engineer Associate
RCRA Federal Facilities Section

Cc: Russell Berry, EQC Region 8 (via email)
Bryan Beck, NAVFAC MIDATLANTIC (via email)
Craig Ehde (via email)

Attachment to: Petrus to Drawdy
Subject: No Further Action
Dated December 14, 2016

Laurel Bay Underground Assessment Reports for (5 addresses/9 tanks)

No Further Action recommendation:	
255 Beech Tank 1	770 Althea Tank 1
255 Beech Tank 2	770 Althea Tank 2
345 Ash Tank 1	772 Althea Tank 1
345 Ash Tank 2	772 Althea Tank 2
603 Dahlia	