

SUMMARY REPORT
401 IRIS LANE (FORMERLY 1140 IRIS LANE)
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
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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 |
| 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 401 Iris Lane (Formerly 1140 Iris Lane). 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 401 Iris Lane (Formerly 1140 Iris Lane). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 1140 Iris Lane* (MCAS Beaufort, 2009). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On July 25, 2007, two 280 gallon heating oil USTs were removed from the front yard adjacent to the house at 401 Iris Lane (Formerly 1140 Iris Lane). The former UST locations are indicated on the figures 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 depths to the bases of the USTs was 5'0" bgs (Tank 1) and 4'7" bgs (Tank 2) and a single soil sample was collected for each from those depths. An additional sample was collected from the side of each excavation at a depth of 3'10" (Tank 1) and 3'9" (Tank 2). 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 bases and sides 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 401 Iris Lane (Formerly 1140 Iris Lane) were less than the SCDHEC RBSLs, which indicated the subsurface was not impacted by COPCs associated with the former UST at concentrations that presented a potential risk to human health and the environment.

3.0 PROPERTY STATUS

Based on the analytical results for soil, SCDHEC made the determination that NFA was required for 401 Iris Lane (Formerly 1140 Iris Lane). This NFA determination was obtained in a letter dated April 8, 2009. SCDHEC's NFA letter is provided in Appendix C.

4.0 REFERENCES

Marine Corps Air Station Beaufort, 2009. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 1140 Iris Lane, Laurel Bay Military Housing Area, March 2009.*

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
401 Iris Lane (Formerly 1140 Iris Lane)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

| Constituent | SCDHEC RBSLs ⁽¹⁾ | Results Samples Collected 07/25/07 | | | |
|--|-----------------------------|---------------------------------------|----------------------|------------------------|----------------------|
| | | 1140 Iris Bottom 01 | 1130 Iris Side 02 | 1140 Iris Bottom 03 | 1140 Iris Side 04 |
| Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg) | | | | | |
| Benzene | 0.003 | ND | ND | ND | ND |
| Ethylbenzene | 1.15 | ND | ND | ND | ND |
| Naphthalene | 0.036 | 0.000351 | 0.00553 | 0.000232 | ND |
| Toluene | 0.627 | ND | ND | ND | ND |
| Xylenes, Total | 13.01 | ND | 0.000146 | ND | ND |
| Semivolatile Organic Compounds Analyzed by EPA Method 8270D (mg/kg) | | | | | |
| Benzo(a)anthracene | 0.66 | ND | 0.0845 | ND | ND |
| Benzo(b)fluoranthene | 0.66 | ND | 0.057 | ND | ND |
| Benzo(k)fluoranthene | 0.66 | ND | 0.0391 | ND | ND |
| Chrysene | 0.66 | ND | 0.0774 | ND | ND |
| Dibenz(a,h)anthracene | 0.66 | ND | ND | ND | ND |

Notes:

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

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

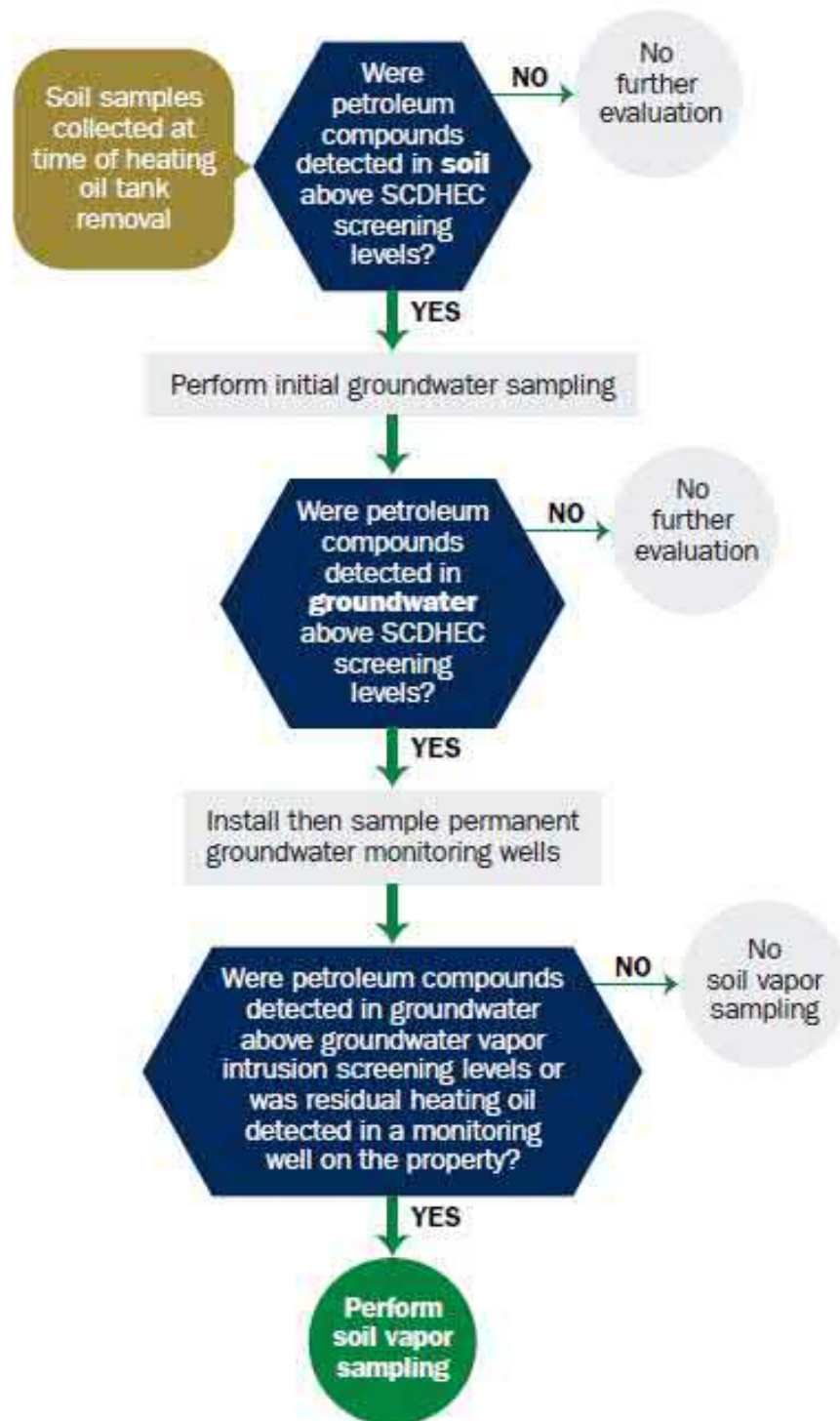
mg/kg - milligram per kilogram

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

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

Appendix A
Multi-Media Selection Process for LBMH



Appendix A - Multi-Media Selection Process for LBMH

Appendix B
UST Assessment Report

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

Date Received
State Use Only

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

04156

RECEIVED

MAR 24 2009

LAND REVITALIZATION
DIVISION - BLWM

I. OWNERSHIP OF UST (S)

| | | |
|--|------------------|----------------|
| Beaufort Military Complex Family Housing | | |
| Owner Name (Corporation, Individual, Public Agency, Other) | | |
| 1510 Laurel Bay Blvd. | | |
| Mailing Address | | |
| Beaufort | SC | 29906 |
| City | State | Zip Code |
| 843 | 379-3305 | Kyle Broadfoot |
| Area Code | Telephone Number | Contact Person |

II. SITE IDENTIFICATION AND LOCATION

| | | |
|--|-------|----------|
| N/A | | |
| Permit I.D. # | | |
| ACTUS LEND LEASE CONSTRUCTION | | |
| Facility Name or Company Site Identifier | | |
| 1510 LAUREL BAY BLVD. 1140 IRIS LN. | | |
| Street Address or State Road (as applicable) | | |
| Beaufort, SC | 29906 | Beaufort |
| City | ZIP | County |

III. INSURANCE INFORMATION

Insurance Statement

The petroleum release reported to DHEC on N/A at Permit ID # may qualify to receive state monies to pay for appropriate site rehabilitation activities. Before participation is allowed in the State Clean-up fund, written confirmation of the existence or non-existence of an environmental insurance policy is required. **This section must be completed.**

Is there now, or has there ever been an insurance policy or other financial mechanism that covers this UST release? **YES** **NO** (check one)

If you answered **YES** to the above question, please complete the following information:

My policy provider is: _____
The policy deductible is: _____
The policy limit is: _____

If you have this type of insurance, please include a copy of the policy with this report.

And

I do/~~do not~~ (circle one) wish to participate in the Superb Program.

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

I certify that I have personally examined and am familiar with the information submitted in this and all attached documents; and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.

Name (Type or print.)

Signature

To be completed by Notary Public:

Sworn before me this _____ day of _____, 20__.

(Name)

Notary Public for the state of _____
Please affix State seal if you are commissioned outside South Carolina

V. UST INFORMATION

| Tank 1 | Tank 2 | Tank 3 | Tank 4 | Tank 5 | Tank 6 |
|--------------|---------|--------|--------|--------|--------|
| #2 DIESEL | SAME | | | | |
| 350g | SAME | | | | |
| Steel | STEEL | | | | |
| | | | | | |
| 60" | 55" | | | | |
| N | N | | | | |
| N | N | | | | |
| Removed | REMOVED | | | | |
| 7-25-07 | 7-25-07 | | | | |
| Y | Y | | | | |
| Y | Y | | | | |

- A. Product...(ex. Gas, Kerosene).....
- B. Capacity...(ex. 1k, 2k)..... (APPROX.)
- C. Age.....
- D. Construction Material...(ex. Steel, FRP).....
- E. Month/Year of Last Use.....
- F. Depth (ft.) To Base of Tank.....
- G. Spill Prevention Equipment Y/N.....
- H. Overfill Prevention Equipment Y/N.....
- I. Method of Closure Removed/Filled.....
- J. Date Tanks Removed/Filled.....
- K. Visible Corrosion or Pitting Y/N.....
- L. Visible Holes Y/N.....

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

N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests)
TREATMENT FACILITY BROADHURST LANDFILL
SOLIDIFICATION AND SUBTITLE D LANDFILL

O. If any corrosion, pitting, or holes were observed, describe the location and extent for each UST
SOME SMALL HOLES HAD DEVELOPED ALONG THE BASE OF
UST 01. UST 02 HAD PREVIOUSLY BEEN CUT OPEN AND FILLED
W/SAND.

VI. PIPING INFORMATION

- A. Construction Material..(ex. Steel, FRP).....
- B. Distance from UST to Dispenser.....
- C. Number of Dispensers.....
- D. Type of System Pressure or Suction.....
- E. Was Piping Removed from the Ground? Y/N
- F. Visible Corrosion or Pitting Y/N.....
- G. Visible Holes Y/N.....
- H. Age.....

| Tank 1 | Tank 2 | Tank 3 | Tank 4 | Tank 5 | Tank 6 |
|-----------------|--------|--------|--------|--------|--------|
| Steel | STEEL | | | | |
| N/A | N/A | | | | |
| -0- | 0 | | | | |
| Electra PUMP | PUMP | | | | |
| Y | Y | | | | |
| N | N | | | | |
| N | N | | | | |
| | | | | | |

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

Both FILL PIPES AND BOTH VENT PIPES HAD
CONSIDERABLE PITTING AND CORROSION PRESENT -

VII. BRIEF SITE DESCRIPTION AND HISTORY

Home Heating Oil TANK - RESIDENTIAL

VIII. SITE CONDITIONS

Yes No Unk

| <p>A. Were any petroleum-stained or contaminated soils found in the UST excavation, soil borings, trenches, or monitoring wells?</p> <p>If yes, indicate depth and location on the site map.</p> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|--|--------------------------|-------------------------------------|--------------------------|
| <p>B. Were any petroleum odors detected in the excavation, soil borings, trenches, or monitoring wells?</p> <p>If yes, indicate location on site map and describe the odor (strong, mild, etc.)</p> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <p>C. Was water present in the UST excavation, soil borings, or trenches?</p> <p>If yes, how far below land surface (indicate location and depth)?</p> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <p>D. Did contaminated soils remain stockpiled on site after closure?</p> <p>If yes, indicate the stockpile location on the site map.</p> <p>Name of DHEC representative authorizing soil removal:</p> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <p>E. Was a petroleum sheen or free product detected on any excavation or boring waters?</p> <p>If yes, indicate location and thickness.</p> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

IX. SAMP INFORMATION

A.

SCDHEC Lab Certification Number DW: 84009002

B.

| Sample # | Location | Sample Type (Soil/Water) | Soil Type (Sand/Clay) | Depth* | Date/Time of Collection | Collected by | OVA # |
|----------|----------|-----------------------------|--------------------------|--------|----------------------------|-----------------|-------|
| | | | | | 7-25-07 | ECHENARRA | |
| 1 | BOTTOM | S | SAND | 60" | 930 | X/MANUELY | ND |
| 2 | SIDE | S | | 46" | 930 | X/MANUELY | ND |
| 3 | BOTTOM | S | | 55" | 940 | | |
| 4 | SIDE | S | ↓ | 45" | 940 | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |

* = Depth Below the Surrounding Land Surface

X:

SAMPLING METHODOLOG

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

EPA Method 8260 B Volatile Organic Compounds

- Preservative: 2ea Sodium Bisulfate 1ea

EPA Method 8270 Poly Aromatic Hydrocarbons

- No Preservative

One (1) Sidewall And One (1) Bottom
Sample were secured from tank excavation
Samples were stored and shipped in an
insulated cooler w/ ice.

XI. RECEPTOR

| | Yes | No |
|---|--------------------------|-------------------------------------|
| <p>A. Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?</p> <p>If yes, indicate type of receptor, distance, and direction on site map.</p> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <p>B. Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?</p> <p>If yes, indicate type of well, distance, and direction on site map.</p> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <p>C. Are there any underground structures (e.g., basements) Located within 100 feet of the UST system?</p> <p>If yes, indicate type of structure, distance, and direction on site map.</p> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <p>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?</p> <p>If yes, indicate the type of utility, distance, and direction on the site map.</p> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <p>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?</p> <p>If yes, indicate the area of contaminated soil on the site map.</p> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

SUMMARY OF ANALYSIS RESULTS

N/A

Enter the soil analytical data for each soil boring for all COC in the table below and on the following page.

| CoC | SB-1 | SB-2 | SB-3 | SB-4 | SB-5 | SB-6 | SB-7 | SB-8 |
|-----------------------|------|------|------|------|------|------|------|------|
| Benzene | | | | | | | | |
| Toluene | | | | | | | | |
| Ethylbenzene | | | | | | | | |
| Xylenes | | | | | | | | |
| Naphthalene | | | | | | | | |
| Benzo(a)anthracene | | | | | | | | |
| Benzo(b)flouranthene | | | | | | | | |
| Benzo(k)flouranthene | | | | | | | | |
| Chrysene | | | | | | | | |
| Dibenz(a,h)anthracene | | | | | | | | |
| TPH (EPA 3550) | | | | | | | | |

| CoC | SB-9 | SB-10 | SB-11 | SB-12 | SB-13 | SB-14 | SB-15 | SB-16 |
|-----------------------|------|-------|-------|-------|-------|-------|-------|-------|
| Benzene | | | | | | | | |
| Toluene | | | | | | | | |
| Ethylbenzene | | | | | | | | |
| Xylenes | | | | | | | | |
| Naphthalene | | | | | | | | |
| Benzo(a)anthracene | | | | | | | | |
| Benzo(b)flouranthene | | | | | | | | |
| Benzo(k)flouranthene | | | | | | | | |
| Chrysene | | | | | | | | |
| Dibenz(a,h)anthracene | | | | | | | | |
| TPH (EPA 3550) | | | | | | | | |

SUMMARY OF ANALYSIS RESULTS (cont'd)

N/A

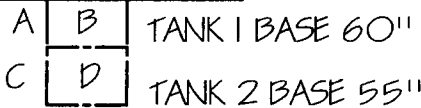
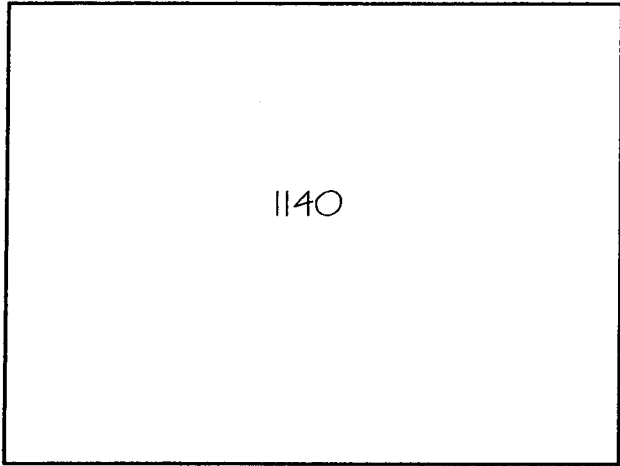
Enter the ground water analytical data for each sample for all CoC in the table below. If free product is present, indicate the measured thickness to the nearest 0.01 feet.

| 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 | | | | |
| MTBE | 40 | | | | |
| Naphthalene | 25 | | | | |
| Benzo(a)anthracene | 10 | | | | |
| Benzo(b)flouranthene | 10 | | | | |
| Benzo(k)flouranthene | 10 | | | | |
| Chrysene | 10 | | | | |
| Dibenz(a,h)anthracene | 10 | | | | |
| EDB | .05 | | | | |
| 1,2-DCA | .05 | | | | |
| Lead | Site specific | | | | |

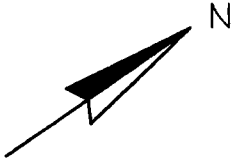


07.25.2007 15:25

1140 IRIS



IRIS LANE



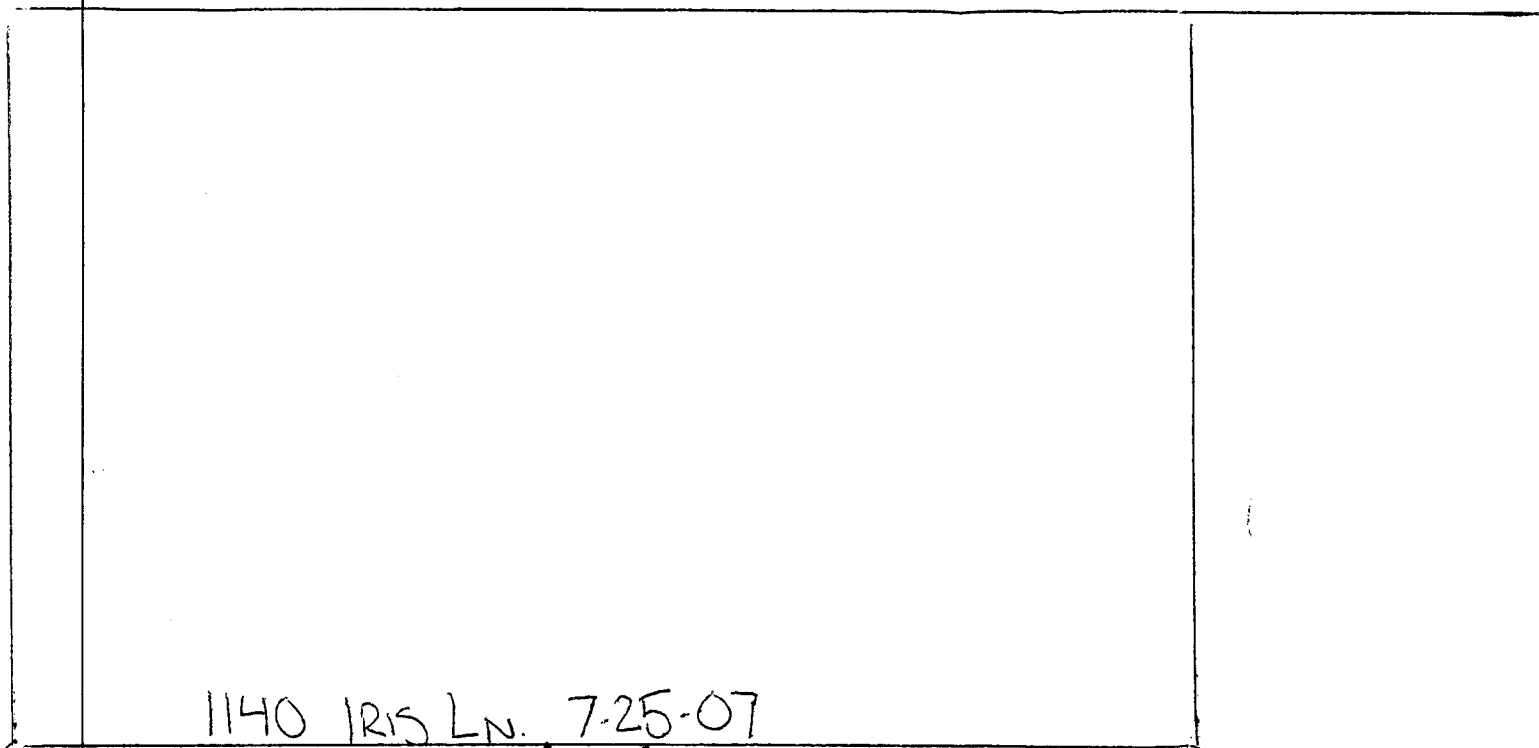
TANK 1 EXCAVATION

A-SOIL TEST SIDE SAMPLE @ 46"
 B-SOIL TEST BOTTOM SAMPLE @ 60"

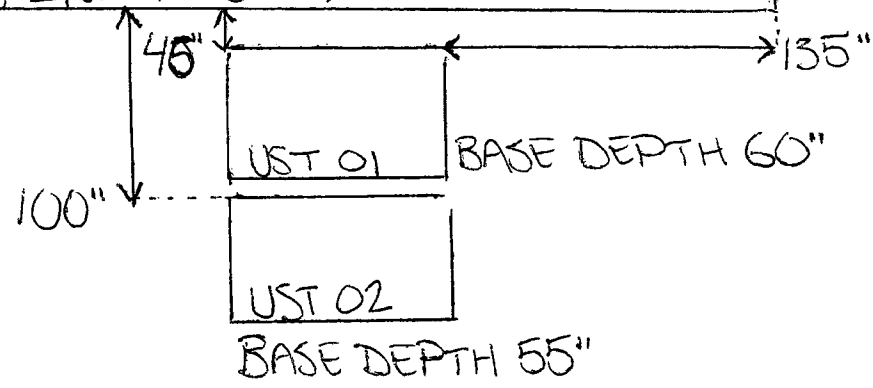
TANK 2 EXCAVATION

C-SOIL TEST SIDE SAMPLE @ 45"
 D-SOIL TEST BOTTOM SAMPLE @ 55"

| | | |
|---|--------------------------|---|
| CUSTOMER : BEAUFORT MILITARY COMPLEX FAMILY HOUSING | SCALE : 1/16" = 1'-0" | EPG INC. P.O. BOX 1096 MOUNT PLEASANT, SC 29465-1096 |
| SITE ADDRESS : 1140 IRIS LANE | SUPPLIER : EPG INC. | |
| | DATE : 9/22/2007 | |



1140 IRIS LN. 7-25-07



45"

135"

UST 01

BASE DEPTH 60"

100"

UST 02

BASE DEPTH 55"

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)

Client: EPG, INC.
 PO BOX 1096
 MT PLEASANT, SC 29465
 Attn: JOHN MAHONEY

Work Order: OQH0044
 Project: LAUREL BAY
 Project Number: EP2362

Sampled: 07/23/07-07/27/07
 Received: 08/02/07

LABORATORY REPORT

Sample ID: 1130 IRIS SIDE 02 - Lab Number: OQH0044-04 - Matrix: Solid/Soil

| CAS # | Analyte | Result | Q | Units | MDL | PQL | Dil Factor | Analyzed Date/Time | By | Method | Batch |
|---|--------------------------|--------|-----|-----------|------|-----|------------|--------------------|-----|-----------|---------|
| Polynuclear Aromatic Hydrocarbons by EPA Method 8270 | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 85.8 | Q,U | ug/kg dry | 85.8 | 194 | 1 | 08/10/07 07:47 | REM | EPA 8270C | 7H06004 |
| 208-96-8 | Acenaphthylene | 113 | Q,U | ug/kg dry | 113 | 194 | 1 | 08/10/07 07:47 | REM | EPA 8270C | 7H06004 |
| 120-12-7 | Anthracene | 61.7 | Q,U | ug/kg dry | 61.7 | 194 | 1 | 08/10/07 07:47 | REM | EPA 8270C | 7H06004 |
| 56-55-3 | Benzo (a) anthracene | 21.0 | Q,U | ug/kg dry | 21.0 | 194 | 1 | 08/10/07 07:47 | REM | EPA 8270C | 7H06004 |
| 205-99-2 | Benzo (b) fluoranthene | 20.4 | Q,U | ug/kg dry | 20.4 | 194 | 1 | 08/10/07 07:47 | REM | EPA 8270C | 7H06004 |
| 207-08-9 | Benzo (k) fluoranthene | 20.4 | Q,U | ug/kg dry | 20.4 | 194 | 1 | 08/10/07 07:47 | REM | EPA 8270C | 7H06004 |
| 191-24-2 | Benzo (g,h,i) perylene | 20.1 | Q,U | ug/kg dry | 20.1 | 194 | 1 | 08/10/07 07:47 | REM | EPA 8270C | 7H06004 |
| 50-32-8 | Benzo (a) pyrene | 23.8 | Q,U | ug/kg dry | 23.8 | 194 | 1 | 08/10/07 07:47 | REM | EPA 8270C | 7H06004 |
| 90-12-0 | 1-Methylnaphthalene | 97.1 | Q,U | ug/kg dry | 97.1 | 194 | 1 | 08/10/07 07:47 | REM | EPA 8270C | 7H06004 |
| 218-01-9 | Chrysene | 23.2 | Q,U | ug/kg dry | 23.2 | 194 | 1 | 08/10/07 07:47 | REM | EPA 8270C | 7H06004 |
| 53-70-3 | Dibenz (a,h) anthracene | 25.4 | Q,U | ug/kg dry | 25.4 | 194 | 1 | 08/10/07 07:47 | REM | EPA 8270C | 7H06004 |
| 206-44-0 | Fluoranthene | 27.8 | Q,U | ug/kg dry | 27.8 | 194 | 1 | 08/10/07 07:47 | REM | EPA 8270C | 7H06004 |
| 86-73-7 | Fluorene | 75.7 | Q,U | ug/kg dry | 75.7 | 194 | 1 | 08/10/07 07:47 | REM | EPA 8270C | 7H06004 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 25.1 | Q,U | ug/kg dry | 25.1 | 194 | 1 | 08/10/07 07:47 | REM | EPA 8270C | 7H06004 |
| 91-57-6 | 2-Methylnaphthalene | 82.5 | Q,U | ug/kg dry | 82.5 | 194 | 1 | 08/10/07 07:47 | REM | EPA 8270C | 7H06004 |
| 91-20-3 | Naphthalene | 77.7 | Q,U | ug/kg dry | 77.7 | 194 | 1 | 08/10/07 07:47 | REM | EPA 8270C | 7H06004 |
| 85-01-8 | Phenanthrene | 45.6 | Q,U | ug/kg dry | 45.6 | 194 | 1 | 08/10/07 07:47 | REM | EPA 8270C | 7H06004 |
| 129-00-0 | Pyrene | 39.3 | Q,U | ug/kg dry | 39.3 | 194 | 1 | 08/10/07 07:47 | REM | EPA 8270C | 7H06004 |
| Surrogate: 2-Fluorobiphenyl (24-121%) | | 46 % | | | | | | | | | |
| Surrogate: Nitrobenzene-d5 (19-111%) | | 48 % | | | | | | | | | |
| Surrogate: Terphenyl-d14 (44-171%) | | 94 % | | | | | | | | | |

LABORATORY REPORT

Sample ID: 1140 IRIS BOTTOM 01 - Lab Number: OQH0044-05 - Matrix: Solid/Soil

| CAS # | Analyte | Result | Q | Units | MDL | PQL | Dil Factor | Analyzed Date/Time | By | Method | Batch |
|---|----------------------|--------|---|-----------|--------|-------|------------|--------------------|-----|-----------|---------|
| General Chemistry Parameters | | | | | | | | | | | |
| IA | % Solids | 87.4 | Q | % | 0.100 | 0.100 | 1 | 08/02/07 17:45 | RRP | EPA 160.3 | 7H02038 |
| Volatile Organic Compounds by EPA Method 8260B | | | | | | | | | | | |
| 1-43-2 | Benzene | 0.0932 | U | ug/kg dry | 0.0932 | 0.255 | 1 | 08/03/07 19:57 | JWT | EPA 8260B | 7H03050 |
| 00-41-4 | Ethylbenzene | 0.108 | U | ug/kg dry | 0.108 | 0.255 | 1 | 08/03/07 19:57 | JWT | EPA 8260B | 7H03050 |
| 1-20-3 | Naphthalene | 0.351 | U | ug/kg dry | 0.141 | 0.255 | 1 | 08/03/07 19:57 | JWT | EPA 8260B | 7H03050 |
| 08-88-3 | Toluene | 0.220 | U | ug/kg dry | 0.220 | 0.255 | 1 | 08/03/07 19:57 | JWT | EPA 8260B | 7H03050 |
| 330-20-7 | Xylenes, total | 0.132 | U | ug/kg dry | 0.132 | 0.255 | 1 | 08/03/07 19:57 | JWT | EPA 8260B | 7H03050 |
| Surrogate: 1,2-Dichloroethane-d4 (73-137%) | | 126 % | | | | | | | | | |
| Surrogate: 4-Bromofluorobenzene (59-118%) | | 107 % | | | | | | | | | |
| Surrogate: Dibromofluoromethane (55-145%) | | 111 % | | | | | | | | | |
| Surrogate: Toluene-d8 (80-117%) | | 104 % | | | | | | | | | |
| Polynuclear Aromatic Hydrocarbons by EPA Method 8270 | | | | | | | | | | | |
| 83-32-9 | Acenaphthene | 84.7 | U | ug/kg dry | 84.7 | 191 | 1 | 08/10/07 08:09 | REM | EPA 8270C | 7H06004 |
| 208-96-8 | Acenaphthylene | 112 | U | ug/kg dry | 112 | 191 | 1 | 08/10/07 08:09 | REM | EPA 8270C | 7H06004 |
| 120-12-7 | Anthracene | 61.0 | U | ug/kg dry | 61.0 | 191 | 1 | 08/10/07 08:09 | REM | EPA 8270C | 7H06004 |
| 56-55-3 | Benzo (a) anthracene | 20.7 | U | ug/kg dry | 20.7 | 191 | 1 | 08/10/07 08:09 | REM | EPA 8270C | 7H06004 |

Client: EPG, INC.
 PO BOX 1096
 MT PLEASANT, SC 29465
 Attn: JOHN MAHONEY

Work Order: OQH0044
 Project: LAUREL BAY
 Project Number: EP2362

Sampled: 07/23/07-07/27/07
 Received: 08/02/07

LABORATORY REPORT

Sample ID: 1140 IRIS BOTTOM 01 - Lab Number: OQH0044-05 - Matrix: Solid/Soil

| CAS # | Analyte | Result | Q | Units | MDL | PQL | Dil Factor | Analyzed Date/Time | By | Method | Batch |
|---|--------------------------|--------|---|-----------|------|-----|------------|--------------------|-----|-----------|---------|
| Polynuclear Aromatic Hydrocarbons by EPA Method 8270 - Cont. | | | | | | | | | | | |
| 205-99-2 | Benzo (b) fluoranthene | 20.1 | U | ug/kg dry | 20.1 | 191 | 1 | 08/10/07 08:09 | REM | EPA 8270C | 7H06004 |
| 207-08-9 | Benzo (k) fluoranthene | 20.1 | U | ug/kg dry | 20.1 | 191 | 1 | 08/10/07 08:09 | REM | EPA 8270C | 7H06004 |
| 191-24-2 | Benzo (g,h,i) perylene | 19.8 | U | ug/kg dry | 19.8 | 191 | 1 | 08/10/07 08:09 | REM | EPA 8270C | 7H06004 |
| 50-32-8 | Benzo (a) pyrene | 23.5 | U | ug/kg dry | 23.5 | 191 | 1 | 08/10/07 08:09 | REM | EPA 8270C | 7H06004 |
| 90-12-0 | 1-Methylnaphthalene | 96.0 | U | ug/kg dry | 96.0 | 191 | 1 | 08/10/07 08:09 | REM | EPA 8270C | 7H06004 |
| 218-01-9 | Chrysene | 22.9 | U | ug/kg dry | 22.9 | 191 | 1 | 08/10/07 08:09 | REM | EPA 8270C | 7H06004 |
| 53-70-3 | Dibenz (a,h) anthracene | 25.1 | U | ug/kg dry | 25.1 | 191 | 1 | 08/10/07 08:09 | REM | EPA 8270C | 7H06004 |
| 206-44-0 | Fluoranthene | 27.5 | U | ug/kg dry | 27.5 | 191 | 1 | 08/10/07 08:09 | REM | EPA 8270C | 7H06004 |
| 86-73-7 | Fluorene | 74.8 | U | ug/kg dry | 74.8 | 191 | 1 | 08/10/07 08:09 | REM | EPA 8270C | 7H06004 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 24.7 | U | ug/kg dry | 24.7 | 191 | 1 | 08/10/07 08:09 | REM | EPA 8270C | 7H06004 |
| 91-57-6 | 2-Methylnaphthalene | 81.5 | U | ug/kg dry | 81.5 | 191 | 1 | 08/10/07 08:09 | REM | EPA 8270C | 7H06004 |
| 91-20-3 | Naphthalene | 76.8 | U | ug/kg dry | 76.8 | 191 | 1 | 08/10/07 08:09 | REM | EPA 8270C | 7H06004 |
| 85-01-8 | Phenanthrene | 45.1 | U | ug/kg dry | 45.1 | 191 | 1 | 08/10/07 08:09 | REM | EPA 8270C | 7H06004 |
| 129-00-0 | Pyrene | 38.8 | U | ug/kg dry | 38.8 | 191 | 1 | 08/10/07 08:09 | REM | EPA 8270C | 7H06004 |
| Surrogate: 2-Fluorobiphenyl (24-121%) | | 46 % | | | | | | | | | |
| Surrogate: Nitrobenzene-d5 (19-111%) | | 45 % | | | | | | | | | |
| Surrogate: Terphenyl-d14 (44-171%) | | 91 % | | | | | | | | | |

LABORATORY REPORT

Sample ID: 1140 IRIS SIDE 02 - Lab Number: OQH0044-06 - Matrix: Solid/Soil

| CAS # | Analyte | Result | Q | Units | MDL | PQL | Dil Factor | Analyzed Date/Time | By | Method | Batch |
|---|------------------------|--------|---|-----------|--------|-------|------------|--------------------|-----|-----------|---------|
| General Chemistry Parameters | | | | | | | | | | | |
| 1A | % Solids | 80.1 | Q | % | 0.100 | 0.100 | 1 | 08/02/07 17:45 | RRP | EPA 160.3 | 7H02038 |
| Volatile Organic Compounds by EPA Method 8260B | | | | | | | | | | | |
| 1-43-2 | Benzene | 0.0919 | U | ug/kg dry | 0.0919 | 0.251 | 1 | 08/03/07 20:14 | JWT | EPA 8260B | 7H03050 |
| 00-41-4 | Ethylbenzene | 0.106 | U | ug/kg dry | 0.106 | 0.251 | 1 | 08/03/07 20:14 | JWT | EPA 8260B | 7H03050 |
| 1-20-3 | Naphthalene | 5.53 | U | ug/kg dry | 0.139 | 0.251 | 1 | 08/03/07 20:14 | JWT | EPA 8260B | 7H03050 |
| 08-88-3 | Toluene | 0.217 | U | ug/kg dry | 0.217 | 0.251 | 1 | 08/03/07 20:14 | JWT | EPA 8260B | 7H03050 |
| 330-20-7 | Xylenes, total | 0.146 | I | ug/kg dry | 0.130 | 0.251 | 1 | 08/03/07 20:14 | JWT | EPA 8260B | 7H03050 |
| Surrogate: 1,2-Dichloroethane-d4 (73-137%) | | 131 % | | | | | | | | | |
| Surrogate: 4-Bromofluorobenzene (59-118%) | | 106 % | | | | | | | | | |
| Surrogate: Dibromofluoromethane (55-145%) | | 110 % | | | | | | | | | |
| Surrogate: Toluene-d8 (80-117%) | | 103 % | | | | | | | | | |
| Polynuclear Aromatic Hydrocarbons by EPA Method 8270 | | | | | | | | | | | |
| 1-32-9 | Acenaphthene | 92.4 | U | ug/kg dry | 92.4 | 209 | 1 | 08/10/07 08:31 | REM | EPA 8270C | 7H06004 |
| 18-96-8 | Acenaphthylene | 122 | U | ug/kg dry | 122 | 209 | 1 | 08/10/07 08:31 | REM | EPA 8270C | 7H06004 |
| 10-12-7 | Anthracene | 66.5 | U | ug/kg dry | 66.5 | 209 | 1 | 08/10/07 08:31 | REM | EPA 8270C | 7H06004 |
| 1-55-3 | Benzo (a) anthracene | 84.5 | I | ug/kg dry | 22.6 | 209 | 1 | 08/10/07 08:31 | REM | EPA 8270C | 7H06004 |
| 5-99-2 | Benzo (b) fluoranthene | 57.0 | I | ug/kg dry | 22.0 | 209 | 1 | 08/10/07 08:31 | REM | EPA 8270C | 7H06004 |
| 7-08-9 | Benzo (k) fluoranthene | 39.1 | I | ug/kg dry | 22.0 | 209 | 1 | 08/10/07 08:31 | REM | EPA 8270C | 7H06004 |
| 1-24-2 | Benzo (g,h,i) perylene | 21.6 | U | ug/kg dry | 21.6 | 209 | 1 | 08/10/07 08:31 | REM | EPA 8270C | 7H06004 |
| 1-32-8 | Benzo (a) pyrene | 25.7 | U | ug/kg dry | 25.7 | 209 | 1 | 08/10/07 08:31 | REM | EPA 8270C | 7H06004 |

Client: EPG, INC.
 PO BOX 1096
 MT PLEASANT, SC 29465
 Attn: JOHN MAHONEY

Work Order: OQH0044
 Project: LAUREL BAY
 Project Number: EP2362

Sampled: 07/23/07-07/27/07
 Received: 08/02/07

LABORATORY REPORT

Sample ID: 1140 IRIS SIDE 02 - Lab Number: OQH0044-06 - Matrix: Solid/Soil

| CAS # | Analyte | Result | Q | Units | MDL | PQL | Dil Factor | Analyzed Date/Time | By | Method | Batch |
|---|--------------------------|--------|---|-----------|------|-----|------------|--------------------|-----|-----------|---------|
| Polynuclear Aromatic Hydrocarbons by EPA Method 8270 - Cont. | | | | | | | | | | | |
| 90-12-0 | 1-Methylnaphthalene | 105 | U | ug/kg dry | 105 | 209 | 1 | 08/10/07 08:31 | REM | EPA 8270C | 7H06004 |
| 218-01-9 | Chrysene | 77.4 | I | ug/kg dry | 25.0 | 209 | 1 | 08/10/07 08:31 | REM | EPA 8270C | 7H06004 |
| 53-70-3 | Dibenz (a,h) anthracene | 27.4 | U | ug/kg dry | 27.4 | 209 | 1 | 08/10/07 08:31 | REM | EPA 8270C | 7H06004 |
| 206-44-0 | Fluoranthene | 55.4 | I | ug/kg dry | 30.0 | 209 | 1 | 08/10/07 08:31 | REM | EPA 8270C | 7H06004 |
| 86-73-7 | Fluorene | 81.6 | U | ug/kg dry | 81.6 | 209 | 1 | 08/10/07 08:31 | REM | EPA 8270C | 7H06004 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 27.0 | U | ug/kg dry | 27.0 | 209 | 1 | 08/10/07 08:31 | REM | EPA 8270C | 7H06004 |
| 91-57-6 | 2-Methylnaphthalene | 88.9 | U | ug/kg dry | 88.9 | 209 | 1 | 08/10/07 08:31 | REM | EPA 8270C | 7H06004 |
| 91-20-3 | Naphthalene | 83.8 | U | ug/kg dry | 83.8 | 209 | 1 | 08/10/07 08:31 | REM | EPA 8270C | 7H06004 |
| 85-01-8 | Phenanthrene | 49.2 | U | ug/kg dry | 49.2 | 209 | 1 | 08/10/07 08:31 | REM | EPA 8270C | 7H06004 |
| 129-00-0 | Pyrene | 65.4 | I | ug/kg dry | 42.4 | 209 | 1 | 08/10/07 08:31 | REM | EPA 8270C | 7H06004 |
| Surrogate: 2-Fluorobiphenyl (24-121%) | | 46 % | | | | | | | | | |
| Surrogate: Nitrobenzene-d5 (19-111%) | | 45 % | | | | | | | | | |
| Surrogate: Terphenyl-d14 (44-171%) | | 93 % | | | | | | | | | |

LABORATORY REPORT

Sample ID: 1140 IRIS BOTTOM 03 - Lab Number: OQH0044-07 - Matrix: Solid/Soil

| CAS # | Analyte | Result | Q | Units | MDL | PQL | Dil Factor | Analyzed Date/Time | By | Method | Batch |
|---|-------------------------|--------|---|-----------|-------|-------|------------|--------------------|-----|-----------|---------|
| General Chemistry Parameters | | | | | | | | | | | |
| NA | % Solids | 87.3 | Q | % | 0.100 | 0.100 | 1 | 08/02/07 17:45 | RRP | EPA 160.3 | 7H02039 |
| Volatile Organic Compounds by EPA Method 8260B | | | | | | | | | | | |
| 71-43-2 | Benzene | 0.106 | U | ug/kg dry | 0.106 | 0.290 | 1 | 08/03/07 20:31 | JWT | EPA 8260B | 7H03050 |
| 00-41-4 | Ethylbenzene | 0.123 | U | ug/kg dry | 0.123 | 0.290 | 1 | 08/03/07 20:31 | JWT | EPA 8260B | 7H03050 |
| 11-20-3 | Naphthalene | 0.232 | I | ug/kg dry | 0.160 | 0.290 | 1 | 08/03/07 20:31 | JWT | EPA 8260B | 7H03050 |
| 08-88-3 | Toluene | 0.251 | U | ug/kg dry | 0.251 | 0.290 | 1 | 08/03/07 20:31 | JWT | EPA 8260B | 7H03050 |
| 330-20-7 | Xylenes, total | 0.151 | U | ug/kg dry | 0.151 | 0.290 | 1 | 08/03/07 20:31 | JWT | EPA 8260B | 7H03050 |
| Surrogate: 1,2-Dichloroethane-d4 (73-137%) | | 126 % | | | | | | | | | |
| Surrogate: 4-Bromofluorobenzene (59-118%) | | 111 % | | | | | | | | | |
| Surrogate: Dibromofluoromethane (55-145%) | | 109 % | | | | | | | | | |
| Surrogate: Toluene-d8 (80-117%) | | 103 % | | | | | | | | | |
| Polynuclear Aromatic Hydrocarbons by EPA Method 8270 | | | | | | | | | | | |
| 3-32-9 | Acenaphthene | 84.7 | U | ug/kg dry | 84.7 | 191 | 1 | 08/10/07 08:54 | REM | EPA 8270C | 7H06004 |
| 08-96-8 | Acenaphthylene | 112 | U | ug/kg dry | 112 | 191 | 1 | 08/10/07 08:54 | REM | EPA 8270C | 7H06004 |
| 20-12-7 | Anthracene | 61.0 | U | ug/kg dry | 61.0 | 191 | 1 | 08/10/07 08:54 | REM | EPA 8270C | 7H06004 |
| 5-55-3 | Benzo (a) anthracene | 20.7 | U | ug/kg dry | 20.7 | 191 | 1 | 08/10/07 08:54 | REM | EPA 8270C | 7H06004 |
| 15-99-2 | Benzo (b) fluoranthene | 20.1 | U | ug/kg dry | 20.1 | 191 | 1 | 08/10/07 08:54 | REM | EPA 8270C | 7H06004 |
| 17-08-9 | Benzo (k) fluoranthene | 20.1 | U | ug/kg dry | 20.1 | 191 | 1 | 08/10/07 08:54 | REM | EPA 8270C | 7H06004 |
| 11-24-2 | Benzo (g,h,i) perylene | 19.8 | U | ug/kg dry | 19.8 | 191 | 1 | 08/10/07 08:54 | REM | EPA 8270C | 7H06004 |
| 1-32-8 | Benzo (a) pyrene | 23.5 | U | ug/kg dry | 23.5 | 191 | 1 | 08/10/07 08:54 | REM | EPA 8270C | 7H06004 |
| 12-0 | 1-Methylnaphthalene | 96.0 | U | ug/kg dry | 96.0 | 191 | 1 | 08/10/07 08:54 | REM | EPA 8270C | 7H06004 |
| 8-01-9 | Chrysene | 22.9 | U | ug/kg dry | 22.9 | 191 | 1 | 08/10/07 08:54 | REM | EPA 8270C | 7H06004 |
| -70-3 | Dibenz (a,h) anthracene | 25.1 | U | ug/kg dry | 25.1 | 191 | 1 | 08/10/07 08:54 | REM | EPA 8270C | 7H06004 |
| 6-44-0 | Fluoranthene | 27.5 | U | ug/kg dry | 27.5 | 191 | 1 | 08/10/07 08:54 | REM | EPA 8270C | 7H06004 |

Client: EPG, INC.
 PO BOX 1096
 MT PLEASANT, SC 29465
 Attn: JOHN MAHONEY

Work Order: OQH0044
 Project: LAUREL BAY
 Project Number: EP2362

Sampled: 07/23/07-07/27/07
 Received: 08/02/07

LABORATORY REPORT

Sample ID: 1140 IRIS BOTTOM 03 - Lab Number: OQH0044-07 - Matrix: Solid/Soil

| CAS # | Analyte | Result | Q | Units | MDL | PQL | Dil Factor | Analyzed Date/Time | By | Method | Batch |
|---|---------------------------------------|--------|---|-----------|------|-----|------------|--------------------|-----|-----------|---------|
| Polynuclear Aromatic Hydrocarbons by EPA Method 8270 - Cont. | | | | | | | | | | | |
| 86-73-7 | Fluorene | 74.8 | U | ug/kg dry | 74.8 | 191 | 1 | 08/10/07 08:54 | REM | EPA 8270C | 7H06004 |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 24.8 | U | ug/kg dry | 24.8 | 191 | 1 | 08/10/07 08:54 | REM | EPA 8270C | 7H06004 |
| 91-57-6 | 2-Methylnaphthalene | 81.5 | U | ug/kg dry | 81.5 | 191 | 1 | 08/10/07 08:54 | REM | EPA 8270C | 7H06004 |
| 91-20-3 | Naphthalene | 76.8 | U | ug/kg dry | 76.8 | 191 | 1 | 08/10/07 08:54 | REM | EPA 8270C | 7H06004 |
| 85-01-8 | Phenanthrene | 45.1 | U | ug/kg dry | 45.1 | 191 | 1 | 08/10/07 08:54 | REM | EPA 8270C | 7H06004 |
| 129-00-0 | Pyrene | 38.8 | U | ug/kg dry | 38.8 | 191 | 1 | 08/10/07 08:54 | REM | EPA 8270C | 7H06004 |
| | Surrogate: 2-Fluorobiphenyl (24-121%) | 41 % | | | | | | | | | |
| | Surrogate: Nitrobenzene-d5 (19-111%) | 42 % | | | | | | | | | |
| | Surrogate: Terphenyl-d14 (44-171%) | 69 % | | | | | | | | | |

LABORATORY REPORT

Sample ID: 1140 IRIS SIDE 04 - Lab Number: OQH0044-08 - Matrix: Solid/Soil

| CAS # | Analyte | Result | Q | Units | MDL | PQL | Dil Factor | Analyzed Date/Time | By | Method | Batch |
|---|--|--------|---|-----------|-------|-------|------------|--------------------|-----|-----------|---------|
| General Chemistry Parameters | | | | | | | | | | | |
| NA | % Solids | 87.6 | Q | % | 0.100 | 0.100 | 1 | 08/02/07 17:45 | RRP | EPA 160.3 | 7H02039 |
| Volatile Organic Compounds by EPA Method 8260B | | | | | | | | | | | |
| 71-43-2 | Benzene | 0.104 | U | ug/kg dry | 0.104 | 0.285 | 1 | 08/03/07 20:48 | JWT | EPA 8260B | 7H03050 |
| 100-41-4 | Ethylbenzene | 0.120 | U | ug/kg dry | 0.120 | 0.285 | 1 | 08/03/07 20:48 | JWT | EPA 8260B | 7H03050 |
| 11-20-3 | Naphthalene | 0.157 | U | ug/kg dry | 0.157 | 0.285 | 1 | 08/03/07 20:48 | JWT | EPA 8260B | 7H03050 |
| 88-88-3 | Toluene | 0.246 | U | ug/kg dry | 0.246 | 0.285 | 1 | 08/03/07 20:48 | JWT | EPA 8260B | 7H03050 |
| 330-20-7 | Xylenes, total | 0.148 | U | ug/kg dry | 0.148 | 0.285 | 1 | 08/03/07 20:48 | JWT | EPA 8260B | 7H03050 |
| | Surrogate: 1,2-Dichloroethane-d4 (73-137%) | 122 % | | | | | | | | | |
| | Surrogate: 4-Bromofluorobenzene (59-118%) | 104 % | | | | | | | | | |
| | Surrogate: Dibromofluoromethane (55-145%) | 108 % | | | | | | | | | |
| | Surrogate: Toluene-d8 (80-117%) | 103 % | | | | | | | | | |
| Polynuclear Aromatic Hydrocarbons by EPA Method 8270 | | | | | | | | | | | |
| 3-32-9 | Acenaphthene | 84.4 | U | ug/kg dry | 84.4 | 191 | 1 | 08/10/07 09:16 | REM | EPA 8270C | 7H06004 |
| 88-96-8 | Acenaphthylene | 111 | U | ug/kg dry | 111 | 191 | 1 | 08/10/07 09:16 | REM | EPA 8270C | 7H06004 |
| 20-12-7 | Anthracene | 60.8 | U | ug/kg dry | 60.8 | 191 | 1 | 08/10/07 09:16 | REM | EPA 8270C | 7H06004 |
| 5-55-3 | Benzo (a) anthracene | 20.6 | U | ug/kg dry | 20.6 | 191 | 1 | 08/10/07 09:16 | REM | EPA 8270C | 7H06004 |
| 15-99-2 | Benzo (b) fluoranthene | 20.1 | U | ug/kg dry | 20.1 | 191 | 1 | 08/10/07 09:16 | REM | EPA 8270C | 7H06004 |
| 17-08-9 | Benzo (k) fluoranthene | 20.1 | U | ug/kg dry | 20.1 | 191 | 1 | 08/10/07 09:16 | REM | EPA 8270C | 7H06004 |
| 11-24-2 | Benzo (g,h,i) perylene | 19.8 | U | ug/kg dry | 19.8 | 191 | 1 | 08/10/07 09:16 | REM | EPA 8270C | 7H06004 |
| 132-8 | Benzo (a) pyrene | 23.4 | U | ug/kg dry | 23.4 | 191 | 1 | 08/10/07 09:16 | REM | EPA 8270C | 7H06004 |
| 1-12-0 | 1-Methylnaphthalene | 95.6 | U | ug/kg dry | 95.6 | 191 | 1 | 08/10/07 09:16 | REM | EPA 8270C | 7H06004 |
| 8-01-9 | Chrysene | 22.8 | U | ug/kg dry | 22.8 | 191 | 1 | 08/10/07 09:16 | REM | EPA 8270C | 7H06004 |
| -70-3 | Dibenz (a,h) anthracene | 25.0 | U | ug/kg dry | 25.0 | 191 | 1 | 08/10/07 09:16 | REM | EPA 8270C | 7H06004 |
| 6-44-0 | Fluoranthene | 27.4 | U | ug/kg dry | 27.4 | 191 | 1 | 08/10/07 09:16 | REM | EPA 8270C | 7H06004 |
| 73-7 | Fluorene | 74.6 | U | ug/kg dry | 74.6 | 191 | 1 | 08/10/07 09:16 | REM | EPA 8270C | 7H06004 |
| 3-39-5 | Indeno (1,2,3-cd) pyrene | 24.7 | U | ug/kg dry | 24.7 | 191 | 1 | 08/10/07 09:16 | REM | EPA 8270C | 7H06004 |
| -57-6 | 2-Methylnaphthalene | 81.2 | U | ug/kg dry | 81.2 | 191 | 1 | 08/10/07 09:16 | REM | EPA 8270C | 7H06004 |
| -20-3 | Naphthalene | 76.5 | U | ug/kg dry | 76.5 | 191 | 1 | 08/10/07 09:16 | REM | EPA 8270C | 7H06004 |

Client: EPG, INC.
 PO BOX 1096
 MT PLEASANT, SC 29465
 Attn: JOHN MAHONEY

Work Order: OQH0044
 Project: LAUREL BAY
 Project Number: EP2362

Sampled: 07/23/07-07/27/07
 Received: 08/02/07

LABORATORY REPORT

Sample ID: 1140 IRIS SIDE 04 - Lab Number: OQH0044-08 - Matrix: Solid/Soil

| CAS # | Analyte | Result | Q | Units | MDL | PQL | Dil Factor | Analyzed Date/Time | By | Method | Batch |
|---|---------------------------------------|--------|---|-----------|------|-----|------------|--------------------|-----|-----------|---------|
| Polynuclear Aromatic Hydrocarbons by EPA Method 8270 - Cont. | | | | | | | | | | | |
| 85-01-8 | Phenanthrene | 44.9 | U | ug/kg dry | 44.9 | 191 | 1 | 08/10/07 09:16 | REM | EPA 8270C | 7H06004 |
| 129-00-0 | Pyrene | 38.7 | U | ug/kg dry | 38.7 | 191 | 1 | 08/10/07 09:16 | REM | EPA 8270C | 7H06004 |
| | Surrogate: 2-Fluorobiphenyl (24-121%) | 54 % | | | | | | | | | |
| | Surrogate: Nitrobenzene-d5 (19-111%) | 50 % | | | | | | | | | |
| | Surrogate: Terphenyl-d14 (44-171%) | 84 % | | | | | | | | | |

LABORATORY REPORT

Sample ID: 1142 IRIS BOTTOM 01 - Lab Number: OQH0044-09 - Matrix: Solid/Soil

| CAS # | Analyte | Result | Q | Units | MDL | PQL | Dil Factor | Analyzed Date/Time | By | Method | Batch |
|---|--|--------|---|-----------|-------|-------|------------|--------------------|-----|-----------|---------|
| General Chemistry Parameters | | | | | | | | | | | |
| NA | % Solids | 81.7 | Q | % | 0.100 | 0.100 | 1 | 08/02/07 17:45 | RRP | EPA 160.3 | 7H02039 |
| Volatile Organic Compounds by EPA Method 8260B | | | | | | | | | | | |
| 71-43-2 | Benzene | 0.122 | U | ug/kg dry | 0.122 | 0.333 | 1 | 08/03/07 23:01 | JWT | EPA 8260B | 7H03050 |
| 100-41-4 | Ethylbenzene | 0.141 | U | ug/kg dry | 0.141 | 0.333 | 1 | 08/03/07 23:01 | JWT | EPA 8260B | 7H03050 |
| 91-20-3 | Naphthalene | 0.184 | U | ug/kg dry | 0.184 | 0.333 | 1 | 08/03/07 23:01 | JWT | EPA 8260B | 7H03050 |
| 108-88-3 | Toluene | 0.288 | U | ug/kg dry | 0.288 | 0.333 | 1 | 08/03/07 23:01 | JWT | EPA 8260B | 7H03050 |
| 1330-20-7 | Xylenes, total | 0.173 | U | ug/kg dry | 0.173 | 0.333 | 1 | 08/03/07 23:01 | JWT | EPA 8260B | 7H03050 |
| | Surrogate: 1,2-Dichloroethane-d4 (73-137%) | 121 % | | | | | | | | | |
| | Surrogate: 4-Bromofluorobenzene (59-118%) | 108 % | | | | | | | | | |
| | Surrogate: Dibromofluoromethane (55-145%) | 109 % | | | | | | | | | |
| | Surrogate: Toluene-d8 (80-117%) | 103 % | | | | | | | | | |
| Polynuclear Aromatic Hydrocarbons by EPA Method 8270 | | | | | | | | | | | |
| 33-32-9 | Acenaphthene | 90.5 | U | ug/kg dry | 90.5 | 204 | 1 | 08/10/07 09:38 | REM | EPA 8270C | 7H06004 |
| 208-96-8 | Acenaphthylene | 120 | U | ug/kg dry | 120 | 204 | 1 | 08/10/07 09:38 | REM | EPA 8270C | 7H06004 |
| 120-12-7 | Anthracene | 65.2 | U | ug/kg dry | 65.2 | 204 | 1 | 08/10/07 09:38 | REM | EPA 8270C | 7H06004 |
| 16-55-3 | Benzo (a) anthracene | 22.1 | U | ug/kg dry | 22.1 | 204 | 1 | 08/10/07 09:38 | REM | EPA 8270C | 7H06004 |
| 105-99-2 | Benzo (b) fluoranthene | 21.5 | U | ug/kg dry | 21.5 | 204 | 1 | 08/10/07 09:38 | REM | EPA 8270C | 7H06004 |
| 107-08-9 | Benzo (k) fluoranthene | 21.5 | U | ug/kg dry | 21.5 | 204 | 1 | 08/10/07 09:38 | REM | EPA 8270C | 7H06004 |
| 91-24-2 | Benzo (g,h,i) perylene | 21.2 | U | ug/kg dry | 21.2 | 204 | 1 | 08/10/07 09:38 | REM | EPA 8270C | 7H06004 |
| 0-32-8 | Benzo (a) pyrene | 25.1 | U | ug/kg dry | 25.1 | 204 | 1 | 08/10/07 09:38 | REM | EPA 8270C | 7H06004 |
| 0-12-0 | 1-Methylnaphthalene | 103 | U | ug/kg dry | 103 | 204 | 1 | 08/10/07 09:38 | REM | EPA 8270C | 7H06004 |
| 18-01-9 | Chrysene | 24.4 | U | ug/kg dry | 24.4 | 204 | 1 | 08/10/07 09:38 | REM | EPA 8270C | 7H06004 |
| 3-70-3 | Dibenz (a,h) anthracene | 26.8 | U | ug/kg dry | 26.8 | 204 | 1 | 08/10/07 09:38 | REM | EPA 8270C | 7H06004 |
| 06-44-0 | Fluoranthene | 29.4 | U | ug/kg dry | 29.4 | 204 | 1 | 08/10/07 09:38 | REM | EPA 8270C | 7H06004 |
| 6-73-7 | Fluorene | 80.0 | U | ug/kg dry | 80.0 | 204 | 1 | 08/10/07 09:38 | REM | EPA 8270C | 7H06004 |
| 93-39-5 | Indeno (1,2,3-cd) pyrene | 26.5 | U | ug/kg dry | 26.5 | 204 | 1 | 08/10/07 09:38 | REM | EPA 8270C | 7H06004 |
| 1-57-6 | 2-Methylnaphthalene | 87.1 | U | ug/kg dry | 87.1 | 204 | 1 | 08/10/07 09:38 | REM | EPA 8270C | 7H06004 |
| 1-20-3 | Naphthalene | 82.1 | U | ug/kg dry | 82.1 | 204 | 1 | 08/10/07 09:38 | REM | EPA 8270C | 7H06004 |
| 5-01-8 | Phenanthrene | 48.2 | U | ug/kg dry | 48.2 | 204 | 1 | 08/10/07 09:38 | REM | EPA 8270C | 7H06004 |
| 29-00-0 | Pyrene | 41.5 | U | ug/kg dry | 41.5 | 204 | 1 | 08/10/07 09:38 | REM | EPA 8270C | 7H06004 |
| | Surrogate: 2-Fluorobiphenyl (24-121%) | 47 % | | | | | | | | | |
| | Surrogate: Nitrobenzene-d5 (19-111%) | 43 % | | | | | | | | | |

Test America

ANALYTICAL TESTING CORPORATION

DQH0044 page 1 of 3

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring

Client Name: EPG Client #: 2411
 Address: _____
 City/State/Zip Code: _____
 Project Manager: JOHN MAHONEY
 Telephone Number: _____ Fax: _____
 Sampler Name: (Print Name) CHRIS ECHEVARRIA
 Sampler Signature: [Signature]

Project Name: LAUREL BAY
 Project #: EP 2362
 Site/Location ID: _____ State: _____
 Report To: _____
 Invoice To: _____
 Quote #: _____ PO#: _____

| TAT <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (surcharges may apply) | Date Needed: | Fax Results: Y N | Date Sampled | Time Sampled | G = Grab, C = Composite | Field Filtered | Matrix | | | | | | | | | | Analyze For: | QC Deliverables | | | |
|---|--------------|------------------|--------------|--------------|-------------------------|----------------|-------------|---------------------|------------------|----------------|-----------------|---------------|------------------|-----|------|--------------------------------|--------------|-----------------|----------|------|-----------------|
| | | | | | | | SL - Sludge | DW - Drinking Water | GW - Groundwater | S - Soil/Solid | WW - Wastewater | Specify Other | HNO ₃ | HCl | NaOH | H ₂ SO ₄ | | | Methanol | None | Other (Specify) |
| | | | | | | | | | | | | | | | | | | | | | |
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BIEX + NAPTH 8220
PAH 8270

QC Deliverables
 None
 Level 2 (Batch QC)
 Level 3
 Level 4
 Other: _____

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Special Instructions:

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|--|---------------------|--------------------|---------------------------------|---------------------|--------------------|
| Relinquished By: <u>Chris Echevarria</u> | Date: <u>8/1/07</u> | Time: <u>09:07</u> | Received By: <u>[Signature]</u> | Date: <u>8/1/07</u> | Time: <u>09:00</u> |
| Relinquished By: <u>[Signature]</u> | Date: <u>8/1/07</u> | Time: <u>17:30</u> | Received By: <u>[Signature]</u> | Date: <u>8/7</u> | Time: <u>9:00</u> |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |

LABORATORY COMMENTS:
 Init Lab Temp:
 Rec Lab Temp: 6.9
 Custody Seals: Y N N/A
 Bottles Supplied by Test America: Y N
86 23 259 1 1725
 Method of Shipment: FedEx to TA-Orlando

Test America

ANALYTICAL TESTING CORPORATION

08H0044 page 2 of 3

To assist us in using the proper analytical methods,
is this work being conducted for regulatory purposes?
Compliance Monitoring

Client Name: EPG Client #: 2411
Address: _____
City/State/Zip Code: _____
Project Manager: JOHN MAHONEY
Telephone Number: _____ Fax: _____
Sampler Name: (Print Name) CHRIS ECHEVARRIA
Sampler Signature: [Signature]

Project Name: LAUREL BAY
Project #: EP 2362
Site/Location ID: _____ State: _____
Report To: _____
Invoice To: _____
Quote #: _____ PO#: _____

| SAMPLE ID | Date Sampled | Time Sampled | G = Grab, C = Composite | Field Filtered | Matrix SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other | Preservation & # of Containers | | | | | | | Analyze For | QC Deliverables | REMARKS | | | |
|-----------|--------------|--------------|-------------------------|----------------|---|--------------------------------|-----|------|--------------------------------|----------|------|-----------------|-------------|-----------------|---------|--------------------|---------|---------|
| | | | | | | HNO ₃ | HCl | NaOH | H ₂ SO ₄ | Methanol | None | Other (Specify) | | | | Level 2 (Batch QC) | Level 3 | Level 4 |
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Special Instructions: _____

Requested By: Chris Echevarria Date: 8/1/07 Time: 0900 Received By: [Signature] Date: 8/1/07 Time: 0900

Requested By: [Signature] Date: 8/1/07 Time: 1730 Received By: [Signature] Date: 8/2 Time: 9:00

Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

LABORATORY COMMENTS:

Init Lab Temp: _____
Rec Lab Temp: _____

Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N

8623 2591 1736
Method of Shipment: FedEx

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TA O. Land

Test America

ANALYTICAL TESTING CORPORATION

To assist us in using the proper analytical methods,
is this work being conducted for regulatory purposes?
Compliance Monitoring

Client Name: EPG Client #: 2411
 Address: _____
 City/State/Zip Code: _____
 Project Manager: JOHN MAHONEY
 Telephone Number: _____ Fax: _____
 Sampler Name: (Print Name) CHRIS ECHEVARRIA
 Sampler Signature: [Signature]

Project Name: LAUREL BAY
 Project #: EP 2362
 Site/Location ID: _____ State: _____
 Report To: _____
 Invoice To: _____
 Quote #: _____ PO#: _____

| TAT <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (surcharges may apply) | Date Needed: | Fax Results: Y N | Date Sampled | Time Sampled | G = Grab, C = Composite | Field Filtered | Matrix | Preservation: & # of Containers | | | | | | | Analyze For: | QC Deliverables | |
|---|--------------|------------------|--------------|--------------|-------------------------|----------------|--------|---------------------------------|---------------------|------------------|----------------|-----------------|---------------|------------------|--------------|-----------------|-----|
| | | | | | | | | SL - Sludge | DW - Drinking Water | GW - Groundwater | S - Soil/Solid | WW - Wastewater | Specify Other | HNO ₃ | | | HCl |
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BTEX + NAPTHS
 PAH 8270

QC Deliverables
 None
 Level 2 (Batch QC)
 Level 3
 Level 4
 Other: _____

REMARKS
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 26
 27
 28

Special Instructions: _____

Relinquished By: [Signature] Date: 8/1/07 Time: 0900 Received By: [Signature] Date: 8/1/07 Time: 0900

Relinquished By: [Signature] Date: 8/1/07 Time: 1730 Received By: [Signature] Date: 8/2 Time: 9:00

Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

LABORATORY COMMENTS:
 Init Lab Temp: _____
 Rec Lab Temp: _____
 Custody Seals: Y N N/A
 Bottles Supplied by Test America: Y N
 8623 25911747
 Method of Shipment: FedEx TOTTA Orlando

Appendix C
Regulatory Correspondence



C. Earl Hunter, Commissioner

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

April 8, 2009

Commanding Officer
ATTN: S-4 NREAO (Craig Ehde)
MCAS
PO Box 55001
Beaufort, SC 29904-5001

Re: MCAS – Laurel Bay Housing – 1140 Iris Lane
Site ID # 04156
Soil Sampling Results received March 24, 2009
Beaufort County

Dear Mr. Ehde:

The Department has reviewed the referenced assessment report. Based upon the geotechnical data in the referenced report, the soil samples are below risk based screening levels and there is no evidence of ground water contamination on the property.

As the Department did not specifically request this data, and the work conducted at this site received no prior review by the Department, we cannot provide any comments on the completeness of the work performed or the overall environmental conditions of the site. Based on the information and analytical data submitted, there is no evidence to indicate that a violation of the Pollution Control Act has occurred. Consequently, no investigation will be required at this time. Please note, this statement pertains only to the data submitted and does not apply to other areas of the site and/or any other potential regulatory violations. Further, the Department retains the right to request further investigation if deemed necessary.

Should you have any questions, please contact me at 803-896-4179 (office phone), 803-896-6245 (fax) or cookejt@dhec.sc.gov.

Sincerely,

Jan T. Cooke, Hydrogeologist
AST Petroleum Restoration & Site Environmental Investigations Section
Division of Site Assessment, Remediation & Revitalization
Bureau of Land and Waste Management

B. Thomas Knight, Manager

cc: Region 8 District EQC
Tri-Command Communities; Attn: Mr. Robert Bible; 600 Laurel Bay Road Beaufort, SC 29906