SUMMARY REPORT
35 WEST CYPRESS STREET (FORMERLY 160 WEST CYPRESS STREET)

LAUREL BAY MILITARY HOUSING AREA

MARINE CORPS AIR STATION BEAUFORT

BEAUFORT, SC

Revision: 0 Prepared for:

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

and



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

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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List of Acronyms

bgs below ground surface

BTEX benzene, toluene, ethylbenzene, and xylenes

CTO Contract Task Order

COPC constituents of potential concern

ft feet

IDIQ Indefinite Delivery, Indefinite Quantity

IGWA Initial Groundwater Assessment

JV Joint Venture

LBMH Laurel Bay Military Housing 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 35 West Cypress Street (Formerly 160 West Cypress Street). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

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

1.1 Background Information

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



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

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

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

1.2 UST Removal and Assessment Process

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

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

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



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

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

2.0 SAMPLING ACTIVITIES AND RESULTS

The following section presents the sampling activities and associated results for 35 West Cypress Street (Formerly 160 West Cypress Street). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 160 Cypress Street* (MCAS Beaufort, 2009). The UST Assessment Report is provided in Appendix B. Details regarding the IGWA sampling activities at this site are provided in the *Initial Groundwater Investigation Report – July 2013* (Resolution Consultants, 2015). The laboratory report that includes the pertinent IGWA analytical results for this site is presented in Appendix C.

2.1 UST Removal and Soil Sampling

On March 25 2009, a single 280 gallon heating oil UST was removed from the front landscaped bed area adjacent to the driveway at 35 West Cypress Street (Formerly 160 West Cypress Street). The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). The UST was removed, cleaned, and shipped offsite for recycling. There was no



visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of the UST was 5'7" bgs and a single soil sample was collected from that depth. The sample was collected from the fill port side of the former UST to represent a worst case scenario.

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

2.2 Soil Analytical Results

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

The soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form (Appendix B). The results of the soil sampling at the former UST location were used by MCAS Beaufort, in consultation with SCDHEC, to determine a path forward (i.e., additional sampling or NFA) for the property. The soil results collected from 35 West Cypress Street (Formerly 160 West Cypress Street) were greater than the SCDHEC RBSLs, which indicated further investigation was required. In a letter dated July 22, 2009, SCDHEC requested an IGWA for 35 West Cypress Street (Formerly 160 West Cypress Street) to determine if the groundwater was impacted by petroleum COPCs. SCDHEC's request letter is provided in Appendix D.

2.3 Groundwater Sampling

On July 22, 2013, a temporary monitoring well was installed at 35 West Cypress Street (Formerly 160 West Cypress Street), in accordance with the South Carolina Well Standards and Regulations (R.61-71.H-I, updated June 24, 2016). In order to provide data that can be used to determine whether COPCs are migrating to underlying groundwater, the monitoring well was placed in the same general location as the former heating oil UST. The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). Further details are provided in the *Initial Groundwater Investigation Report – July 2013* (Resolution Consultants, 2015).



The sampling strategy for this phase of the investigation required a one-time sampling event of the temporarily installed monitoring well. Following well installation and development, groundwater samples were collected using low-flow methods and shipped to an offsite laboratory for analysis of the petroleum COPCs. Upon completion of groundwater sampling, the temporary well was abandoned in accordance with the South Carolina Well Standards and Regulations R.61-71 (SCDHEC, 2016). Field forms are provided in the *Initial Groundwater Investigation Report – July 2013* (Resolution Consultants, 2015).

2.4 Groundwater Analytical Results

A summary of the laboratory analytical results and SCDHEC RBSLs is presented in Table 2. A copy of the laboratory analytical data report is included in Appendix C.

The groundwater results collected from 35 West Cypress Street (Formerly 160 West Cypress Street) were less than the SCDHEC RBSLs and the site specific groundwater VISLs (Table 2), which indicated that the groundwater was not impacted by COPCs associated with the former UST at concentrations that present a potential risk to human health and the environment.

3.0 PROPERTY STATUS

Based on the analytical results for groundwater, SCDHEC made the determination that NFA was required for 35 West Cypress Street (Formerly 160 West Cypress Street). This NFA determination was obtained in a letter dated August 6, 2015. SCDHEC's NFA letter is provided in Appendix D.

4.0 REFERENCES

Marine Corps Air Station Beaufort, 2009. South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 160 Cypress Street, Laurel Bay Military Housing Area, June 2009.

Resolution Consultants, 2015. *Initial Groundwater Investigation Report – July 2013 for Laurel Bay Military Housing Area, Multiple Properties, Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort, Beaufort, South Carolina*, June 2015.



- South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2013. *Quality Assurance Program Plan for the Underground Storage Tank Management* Division, *Revision 2.0*, April 2013.
- South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2015. *Quality Assurance Program Plan for the Underground Storage Tank Management* Division, *Revision 3.0*, May 2015.
- South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2016. *Quality Assurance Program Plan for the Underground Storage Tank Management* Division, *Revision 3.1*, February 2016.
- South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2017. *R.61-92, Part 280, Underground Storage Tank Control Regulations*, March 2017.
- South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2018. *Underground Storage Tank Assessment Instructions for Permanent Closure and Change-In-Service*, March 2018.
- South Carolina Department of Health and Environmental Control Bureau of Water, 2016. *R.61-71, Well Standards*, June 2016.

Tables



Table 1

Laboratory Analytical Results - Soil 35 West Cypress Street (Formerly 160 West Cypress Street) Laurel Bay Military Housing Area

Marine Corps Air Station Beaufort Beaufort, South Carolina

Constituent	SCDHEC RBSLs (1)	Results Sample Collected 03/25/09
Volatile Organic Compounds Analyz	ed by EPA Method 8260B (mg/kg)	
Benzene	0.003	0.00269
Ethylbenzene	1.15	1.64
Naphthalene	0.036	12.5
Toluene	0.627	ND ND
Xylenes, Total	13.01	0.357
Semivolatile Organic Compounds A	nalyzed by EPA Method 8270D (mg/kg)	
Benzo(a)anthracene	0.66	0.332
Benzo(b)fluoranthene	0.66	0.206
Benzo(k)fluoranthene	0.66	0.162
Chrysene	0.66	0.339
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 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 - milligrams per kilogram

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

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

Table 2

Laboratory Analytical Results - Groundwater 35 West West Cypress Street (Formerly 160 West Cypress Street) Laurel Bay Military Housing Area Marine Corps Air Station Beaufort Beaufort, South Carolina

Constituent	SCDHEC RBSLs (1)	Site-Specific Groundwater VISLs (µg/L) ⁽²⁾	Results Sample Collected 07/22/13
Volatile Organic Compounds Analyzed	by EPA Method 8260B (μg/L)	
Benzene	5	16.24	ND
Ethylbenzene	700	45.95	ND
Naphthalene	25	29.33	0.38
Toluene	1000	105,445	ND
Xylenes, Total	10,000	2,133	ND
Semivolatile Organic Compounds Ana	lyzed by EPA Method 827	70D (μg/L)	
Benzo(a)anthracene	10	NA	ND
Benzo(b)fluoranthene	10	NA	ND
Benzo(k)fluoranthene	10	NA	ND
Chrysene	10	NA	ND
Dibenz(a,h)anthracene	10	NA	ND

Notes:

(1) South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 3.1 (SCDHEC, February 2016).

⁽²⁾ Site-specific groundwater VISLs were calculated using the EPA JE Model Spreadsheets (Version 3.1, February 2004) and conservative modeling inputs representative of a small single-story house with an 8 foot ceiling. Site-specific groundwater VISLs were developed based on a target risk level of 1x10⁻⁶, a target hazard quotient of 1 (per target organ), and a default residential exposure scenario, assuming exposure for 24 hours/day, 350 days/year, for 26 years. Modeling was performed for a range of depths to groundwater for application as appropriate in different areas of the Laurel Bay Military Housing Area. The most conservative levels are presented for comparison. Refer to Appendix H of the Uniform Federal Policy Sampling Analysis and Sampling Plan for Vapor Media, Revision 4 (Resolution Consultants, April 2017) for additional information.

Bold font indicates the analyte was detected.

Bold font and shading indicates the concentration exceeds the SCDHEC RBSL and/or the Site-Specific Groundwater VISL.

EPA - United States Environmental Protection Agency

JE - Johnson & Ettinger

NA - Not Applicable

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

RBSL - Risk-Based Screening Level

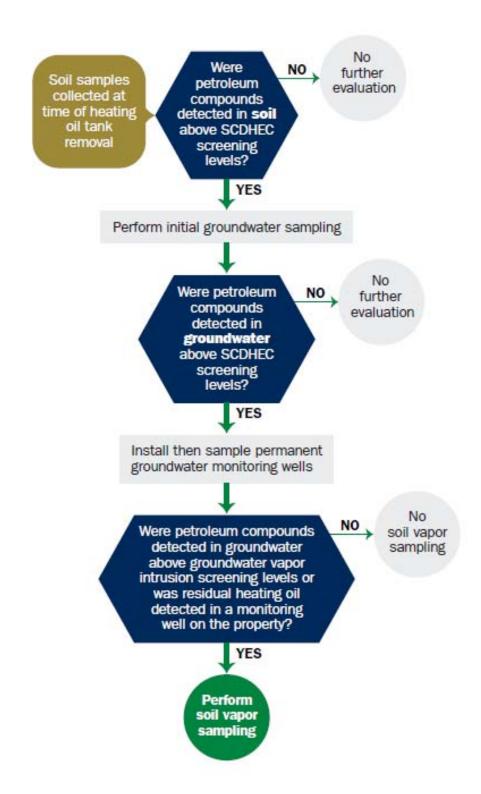
SCDHEC - South Carolina Department Of Health and Environmental Control

μg/L - micrograms per liter

VISL - Vapor Intrusion Screening Level

Appendix A Multi-Media Selection Process for LBMH





Appendix A - Multi-Media Selection Process for LBMH

Appendix B UST Assessment Report



South Carolina Department of Health and Environmental Control (SCDHEC)

Underground Storage Tank (UST) Assessment Report



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





JUN 2 9 2009

I. OWNERSHIP OF UST (S)

SITE ASSESSMENT, REMEDIATION &

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

II. SITE IDENTIFICATION AND LOCATION

City	County					
Beaufort,	Beaufort					
Street Address or State Roa	ad (as applicable)					
160 Cypress Stree	et, Laurel Bay Mi	ilitary H	Housing	Area		
Facility Name or Company						
Laurel Bay Milita		Marine	Corps A	ir Station,	Beaufort,	SC
Permit I.D. #						

Attachment 2

III. INSURANCE INFORMATION

Insurance Statement
The petroleum release reported to DHEC on at Permit ID Number 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.
IV. REQUEST FOR SUPERB FUNDING
I DO / DO NOT wish to participate in the SUPERB Program. (Circle one.)
V. CERTIFICATION (To be signed by the UST owner)
I certify that I have personally examined and am familiar with the information submitted in this and al 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

	VI. UST INFORMATION	160Cypress
	Product(ex. Gas, Kerosene)	Heating oil
•		280 gal
	Capacity(ex. 1k, 2k)	
	Age	Late 1950s
	Construction Material(ex. Steel, FRP)	Steel
	Month/Year of Last Use	Mid 1980s
	Depth (ft.) To Base of Tank	5'7"
	Spill Prevention Equipment Y/N	No
	Overfill Prevention Equipment Y/N	No
	Made de Classes Demand /Filled	Removed
	Method of Closure Removed/Filled Date Tanks Removed/Filled	3/25/09
	Visible Corrosion or Pitting Y/N	Yes
	Visible Holes Y/N	Yes
	Method of disposal for any USTs removed from the UST 160Cypress was removed from the	ground (attach disposal manifests) ne ground and disposed of at a
	Subtitle D landfill. See Attachmen	
	Method of disposal for any liquid petroleum, sludge disposal manifests) The tank had been filled with sand	
	If any corrosion, pitting, or holes were observed, de Corrosion, pitting and holes were	

VII. PIPING INFORMATION

	160 Cypress	
	Steel	
Construction Material(ex. Steel, FRP)	/Copper	
Distance from UST to Dispenser	N/A	
Number of Dispensers	N/A	
Type of System Pressure or Suction	Suction	
Was Piping Removed from the Ground? Y/N	Yes*	
Visible Corrosion or Pitting Y/N	Yes	
Visible Holes Y/N	No l	
Age	Early 1950s	
If any corrosion, pitting, or holes were observed, de	scribe the location and extent for each nining	r
Corrosion and pitting were found		
piping. The copper supply and re		
*All piping was removed.		
VIII. BRIEF SITE DESCRI	PTION AND HISTORY	
The USTs at the residences are cor		
and formerly contained fuel oil for		
installed in the late 1950s and la	ast used in the mid 1980s.	

IX. SITE CONDITIONS

	Yes	No	Unk
A. Were any petroleum-stained or contaminated soils found in the UST excavation, soil borings, trenches, or monitoring wells? If yes, indicate depth and location on the site map.		х	
B. Were any petroleum odors detected in the excavation, soil borings, trenches, or monitoring wells? Mild odor came from excavation. If yes, indicate location on site map and describe the odor (strong, mild, etc.)	х		
C. Was water present in the UST excavation, soil borings, or trenches? If yes, how far below land surface (indicate location and depth)?		Х	
D. Did contaminated soils remain stockpiled on site after closure? If yes, indicate the stockpile location on the site map. Name of DHEC representative authorizing soil removal:		х	
E. Was a petroleum sheen or free product detected on any excavation or boring waters? If yes, indicate location and thickness.		Х	

X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 96012001

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA#
160 Cypress	Excav at fill end	Soil	Clay	5'7"	3/25/09 1000 hrs	P. Shaw	
7							
8							
9							
10							
11							
12							
13							
14							
15							:
16							
17			_				
18				!			
19							
20							

^{* =} Depth Below the Surrounding Land Surface

XI. SAMPLING METHODOLOGY

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

Sampling was performed in accordance with SC DHEC R.61-92 Part 280
and SC DHEC Assessment Guidelines. Sample containers were prepared by the
testing laboratory. The grab method was utilized to fill the sample
containers leaving as little head space as possible and immediately
capped. Soil samples were extracted from area below tank. The
samples were marked, logged, and immediately placed in a sample cooler
packed with ice to maintain an approximate temperature of 4 degrees
Centigrade. Tools were thoroughly cleaned and decontaminated with
the seven step decon process after each use. The samples remained in
custody of SBG-EEG, Inc. until they were transferred to Test America
Incorporated for analysis as documented in the Chain of Custody Record.

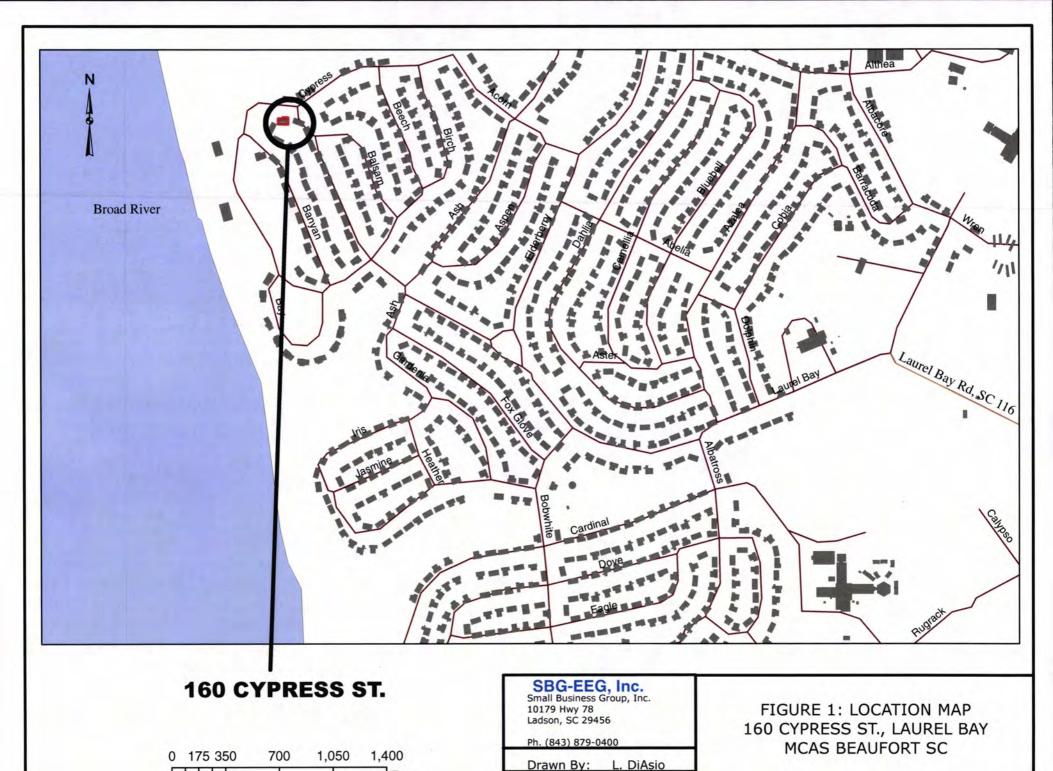
XII. RECEPTORS

		Yes	No
A.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?	X	
	If yes, indicate type of receptor, distance, and direction on site map.	1	
B.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?		Х
	If yes, indicate type of well, distance, and direction on site map.		
C.	Are there any underground structures (e.g., basements) Located within 100 feet of the UST system?		x
	If yes, indicate type of structure, distance, and direction on site map.		
D.	Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the contamination? *Sewer, water, electricity, cable, fiber optic If yes, indicate the type of utility, distance, and direction on the site map.	Х*	
E.	Has contaminated soil been identified at a depth less than 3 feet below land surface in an area that is not capped by asphalt or concrete?		Х
	If yes, indicate the area of contaminated soil on the site map.		

XIII. SITE MAP

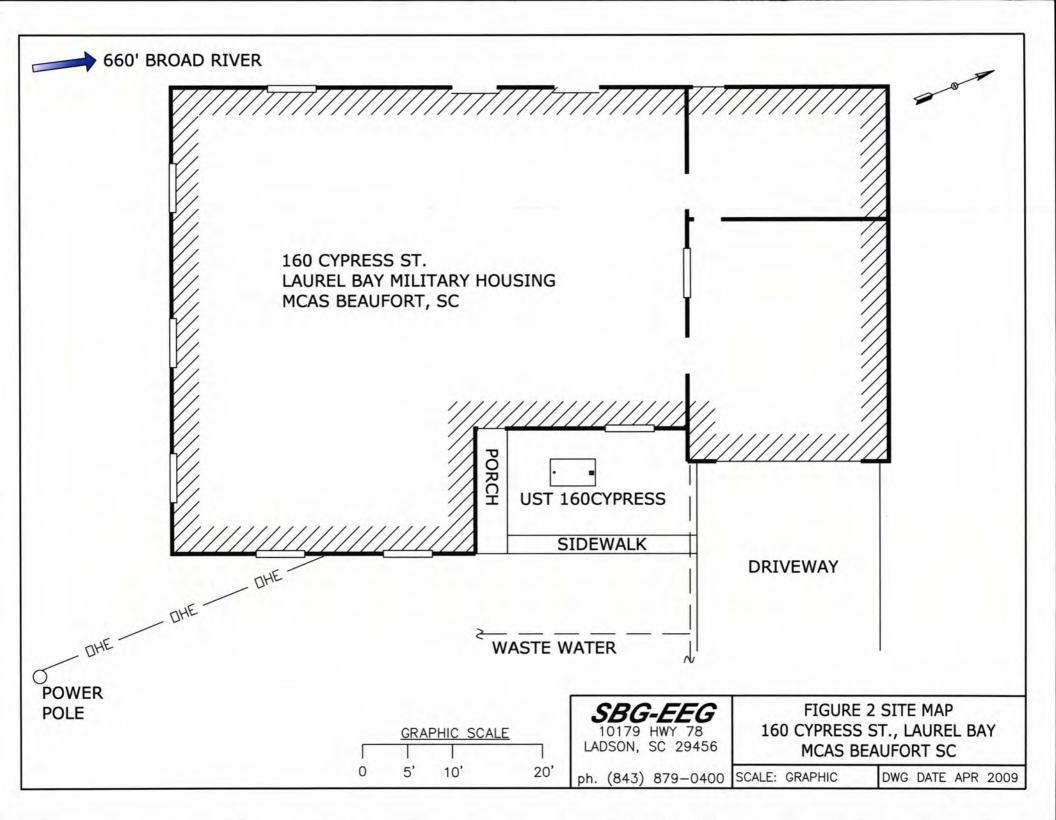
You must supply a <u>scaled</u> site map. It should include all buildings, road names, utilities, tank and dispenser island locations, labeled sample locations, extent of excavation, and any other pertinent information.

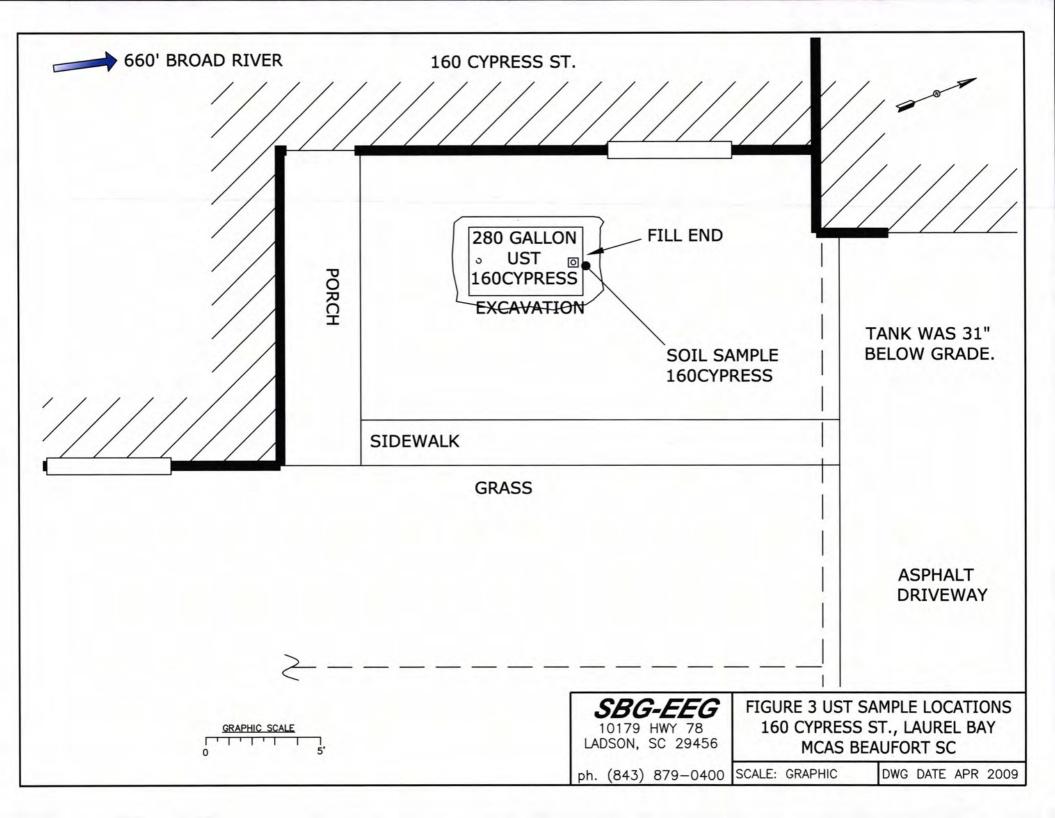
(Attach Site Map Here)



Dwg Date: Apr 2009

Feet







Picture 1: 160 Cypress Street site.



Picture 2: UST 160Cypress during removal from the excavation.

XIV. SUMMARY OF ANALYSIS RESULTS

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

CoC	160Cypress
Benzene	0.00269 mg/kg
Toluene	ND ND
Ethylbenzene	1.64 mg/kg
Xylenes	0.357 mg/kg
Naphthalene	12.5 mg/kg
Benzo (a) anthracene	0.332 mg/kg
Benzo (b) fluoranthene	0.206 mg/kg
Benzo (k) fluoranthene	0.162 mg/kg
Chrysene	0.339 mg/kg
Dibenz (a, h) anthracene	ND
TPH (EPA 3550)	
СоС	
Benzene	
Toluene	
Ethylbenzene	
Xylenes	
Naphthalene	
Benzo (a) anthracene	
Benzo (b) fluoranthene	
Benzo (k) fluoranthene	
Chrysene	
Dibenz (a, h) anthracene	
TPH (EPA 3550)	

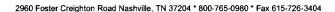
SUMMARY OF ANALYSIS RESULTS (cont'd)
Enter the ground water analytical data for each sample for all CoC in the table below. If free product is present, indicate the measured thickness to the nearest 0.01 feet.

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

XV. ANALYTICAL RESULTS

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

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





April 10, 2009

10:47:19AM

Client:

EEG - Env. Enterprise Group (2449)

10179 Highway 78

Ladson, SC 29456

Attn:

Tom McElwee

Work Order:

NSC2487

Project Name:

Laurel Bay Housing Project

Project Nbr:

[none]

P/O Nbr: Date Received: 08087 03/27/09

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE AND TIME 03/23/09 10:35

152 Laural Bay Blvd 156 Laural Bay Blvd-1 156 Laural Bay Blvd-2

160 Cypress

NSC2487-01 NSC2487-02 NSC2487-03 NSC2487-04

03/24/09 10:30 03/24/09 14:30 03/25/09 10:00

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

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The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

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All solids results are reported in wet weight unless specifically stated.

Estimated uncertainty is available upon request.

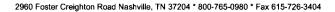
This report has been electronically signed.

Lem & Hage

Report Approved By:

Ken A. Hayes

Senior Project Manager





Client EEG - Env. Enterprise Group (2449)

10179 Highway 78 Ladson, SC 29456

Attn Tom McElwee

Work Order:

NSC2487

Project Name:

Laurel Bay Housing Project

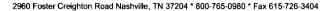
Project Number:

[none]

Received: 03/27/09 08:00

ANALYTICAL REPORT

					Dilution	Analysis		
Analyte	Result	Flag	Units	MRL	Factor	Date/Time	Method	Batch
Sample ID: NSC2487-01 (152 Lau	ral Bay Blvd - S	Soil) Sam	pled: 03/23/09 10):35				
Polyaromatic Hydrocarbons by EPA 82	270 D							
Acenaphthene	0.501		mg/kg dry	0.0818	1	03/30/09 15:33	SW846 8270D	9034242
Acenaphthylene	ND		mg/kg dry	0.0818	1	03/30/09 15:33	SW846 8270D	9034242
Anthracene	2.43		mg/kg dry	0.0818	1	03/30/09 15:33	SW846 8270D	9034242
Benzo (a) anthracene	6.61		mg/kg dry	0.409	5	03/31/09 14:42	SW846 8270D	9034242
Benzo (a) pyrene	3.13		mg/kg dry	0.0818	1	03/30/09 15:33	SW846 8270D	9034242
Benzo (b) fluoranthene	3.87		mg/kg dry	0.0818	1	03/30/09 15:33	SW846 8270D	9034242
Benzo (g,h,i) perylene	0.976		mg/kg dry	0.0818	1	03/30/09 15:33	SW846 8270D	9034242
Benzo (k) fluoranthene	2.73		mg/kg dry	0.0818	1	03/30/09 15:33	SW846 8270D	9034242
Chrysene	6.51		mg/kg dry	0.409	5	03/31/09 14:42	SW846 8270D	9034242
Dibenz (a,h) anthracene	0.452		mg/kg dry	0.0818	1	03/30/09 15:33	SW846 8270D	9034242
Fluoranthene	14.7		mg/kg dry	0.409	5	03/31/09 14:42	SW846 8270D	9034242
Fluorene	1.67		mg/kg dry	0.0818	1	03/30/09 15:33	SW846 8270D	9034242
Indeno (1,2,3-cd) pyrene	1.10		mg/kg dry	0.0818	1	03/30/09 15:33	SW846 8270D	9034242
Naphthalene	ND		mg/kg dry	0.0818	1	03/30/09 15:33	SW846 8270D	9034242
Phenanthrene	9.87		mg/kg dry	0.409	5	03/31/09 14:42	SW846 8270D	9034242
Pyrene	13.4		mg/kg dry	0.409	5	03/31/09 14:42	SW846 8270D	9034242
Surr: Terphenyl-d14 (26-128%)	89 %					03/30/09 15:33	SW846 8270D	9034242
Surr: 2-Fluorobiphenyl (19-109%)	76 %					03/30/09 15:33	SW846 8270D	9034242
Surr: Nitrobenzene-d5 (22-104%)	84 %					03/30/09 15:33	SW846 8270D	9034242
General Chemistry Parameters								
% Dry Solids	81.3		%	0.500	1	04/02/09 09:42	SW-846	9040045
Selected Volatile Organic Compounds	by EPA Method	8260B						
Benzene	ND		mg/kg dry	0.00222	1	03/31/09 20:10	SW846 8260B	9034691
Ethylbenzene	0.0397		mg/kg dry	0.00222	1	03/31/09 20:10	SW846 8260B	9034691
Naphthalene	0.0644		mg/kg dry	0.00458	1	04/01/09 17:36	SW846 8260B	9040118
Toluene	ND		mg/kg dry	0.00222	1	03/31/09 20:10	SW846 8260B	9034691
Xylenes, total	0.0275		mg/kg dry	0.00458	1	04/01/09 17:36	SW846 8260B	9040118
Surr: 1,2-Dichloroethane-d4 (41-150%)	100 %					03/31/09 20:10	SW846 8260B	903469
Surr: 1,2-Dichloroethane-d4 (41-150%)	99 %					04/01/09 17:36	SW846 8260B	9040118
Surr: Dibromofluoromethane (55-139%)	96 %					03/31/09 20:10	SW846 8260B	903469
Surr: Dibromofluoromethane (55-139%)	96 %					04/01/09 17:36	SW846 8260B	9040118
Surr: Toluene-d8 (57-148%)	174 %	ZX				03/31/09 20:10	SW846 8260B	903469
Surr: Toluene-d8 (57-148%)	144 %					04/01/09 17:36	SW846 8260B	9040118
Surr: 4-Bromofluorobenzene (58-150%)	1370 %	ZX				03/31/09 20:10	SW846 8260B	903469
Surr: 4-Bromofluorobenzene (58-150%)	123 %					04/01/09 17:36	SW846 8260B	9040118





Client EEG - Env. Enterprise Group (2449)

10179 Highway 78 Ladson, SC 29456

Tom McElwee

Attn

Work Order:

NSC2487

Project Name:

Laurel Bay Housing Project

Project Number:

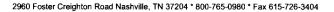
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Received:

03/27/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSC2487-02 (156 Laur	al Bay Blvd-1	- Soil) Sa	mpled: 03/24/09	10:30				
Polyaromatic Hydrocarbons by EPA 82	70D							
Acenaphthene	ND		mg/kg dry	0.0833	1	03/30/09 15:56	SW846 8270D	9034242
Acenaphthylene	ND		mg/kg dry	0.0833	1	03/30/09 15:56	SW846 8270D	9034242
Anthracene	ND		mg/kg dry	0.0833	1	03/30/09 15:56	SW846 8270D	9034242
Benzo (a) anthracene	ND		mg/kg dry	0.0833	1	03/30/09 15:56	SW846 8270D	9034242
Benzo (a) pyrene	ND		mg/kg dry	0.0833	1	03/30/09 15:56	SW846 8270D	9034242
Benzo (b) fluoranthene	ND		mg/kg dry	0.0833	1	03/30/09 15:56	SW846 8270D	9034242
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0833	1	03/30/09 15:56	SW846 8270D	9034242
Benzo (k) fluoranthene	ND		mg/kg dry	0.0833	1	03/30/09 15:56	SW846 8270D	9034242
Chrysene	ND		mg/kg dry	0.0833	1	03/30/09 15:56	SW846 8270D	9034242
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0833	1	03/30/09 15:56	SW846 8270D	9034242
Fluoranthene	ND		mg/kg dry	0.0833	1	03/30/09 15:56	SW846 8270D	9034242
Fluorene	ND		mg/kg dry	0.0833	1	03/30/09 15:56	SW846 8270D	9034242
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0833	1	03/30/09 15:56	SW846 8270D	9034242
Naphthalene	ND		mg/kg dry	0.0833	1	03/30/09 15:56	SW846 8270D	9034242
Phenanthrene	ND		mg/kg dry	0.0833	1	03/30/09 15:56	SW846 8270D	9034242
Pyrene	ND		mg/kg dry	0.0833	1	03/30/09 15:56	SW846 8270D	9034242
Surr: Terphenyl-d14 (26-128%)	66 %					03/30/09 15:56	SW846 8270D	9034242
Surr: 2-Fluorobiphenyl (19-109%)	64 %					03/30/09 15:56	SW846 8270D	9034242
Surr: Nitrobenzene-d5 (22-104%)	60 %					03/30/09 15:56	SW846 8270D	9034242
General Chemistry Parameters								
% Dry Solids	78.2		%	0.500	1	04/02/09 09:42	SW-846	9040045
Selected Volatile Organic Compounds b	y EPA Method	8260B						
Benzene	ND		mg/kg dry	0.00210	1	03/31/09 20:40	SW846 8260B	9034691
Ethylbenzene	ND		mg/kg dry	0.00210	1	03/31/09 20:40	SW846 8260B	9034691
Naphthalene	ND		mg/kg dry	0.00524	1	03/31/09 20:40	SW846 8260B	9034691
Toluene	ND		mg/kg dry	0.00210	1	03/31/09 20:40	SW846 8260B	9034691
Xylenes, total	ND		mg/kg dry	0.00524	1	03/31/09 20:40	SW846 8260B	9034691
Surr: 1,2-Dichloroethane-d4 (41-150%)	104 %					03/31/09 20:40	SW846 8260B	9034691
Surr: Dibromofluoromethane (55-139%)	97 %					03/31/09 20:40	SW846 8260B	9034691
Surr: Toluene-d8 (57-148%)	104 %					03/31/09 20:40	SW846 8260B	9034691
Surr: 4-Bromofluorobenzene (58-150%)	114 %					03/31/09 20:40	SW846 8260B	9034691





Client EEG - Env. Enterprise Group (2449)

10179 Highway 78 Ladson, SC 29456

Attn Tom McElwee

Work Order:

NSC2487

Project Name:

Laurel Bay Housing Project

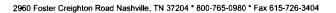
Project Number:

[none]

Received: 03/27/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSC2487-03 (156 Lau	ral Rav Rlvd-2		mpled: 03/24/09	14.30				
Polyaromatic Hydrocarbons by EPA 83		5011, 54	aipied: 05/24/07	14.50				
Acenaphthene	0.117		mg/kg dry	0.0845	1	03/30/09 16:19	SW846 8270D	9034242
Acenaphthylene	ND		mg/kg dry	0.0845	1	03/30/09 16:19	SW846 8270D	9034242
Anthracene	ND		mg/kg dry	0.0845	1	03/30/09 16:19	SW846 8270D	9034242
Benzo (a) anthracene	ND		mg/kg dry	0.0845	1	03/30/09 16:19	SW846 8270D	9034242
Benzo (a) pyrene	ND		mg/kg dry	0.0845	1	03/30/09 16:19	SW846 8270D	9034242
Benzo (b) fluoranthene	ND		mg/kg dry	0.0845	1	03/30/09 16:19	SW846 8270D	9034242
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0845	1	03/30/09 16:19	SW846 8270D	9034242
Benzo (k) fluoranthene	ND		mg/kg dry	0.0845	1	03/30/09 16:19	SW846 8270D	9034242
Chrysene	ND		mg/kg dry	0.0845	1	03/30/09 16:19	SW846 8270D	9034242
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0845	1	03/30/09 16:19	SW846 8270D	9034242
Fluoranthene	ND ND			0.0845	1	03/30/09 10:19	SW846 8270D	9034242
Fluorene			mg/kg dry					9034242
	ND		mg/kg dry	0.0845	1	03/30/09 16:19	SW846 8270D	
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0845	1	03/30/09 16:19	SW846 8270D	9034242
Naphthalene	0.100		mg/kg dry	0.0845	1	03/30/09 16:19	SW846 8270D	9034242
Phenanthrene	0.667		mg/kg dry	0.0845	1	03/30/09 16:19	SW846 8270D	9034242
Pyrene	ND		mg/kg dry	0.0845	1	03/30/09 16:19	SW846 8270D	9034242
Surr: Terphenyl-d14 (26-128%)	67 %					03/30/09 16:19	SW846 8270D	903424
Surr: 2-Fluorobiphenyl (19-109%)	62 %					03/30/09 16:19	SW846 8270D	903424
Surr: Nitrobenzene-d5 (22-104%)	60 %					03/30/09 16:19	SW846 8270D	903424
General Chemistry Parameters								
% Dry Solids	79.3		%	0.500	1	04/02/09 09:42	SW-846	9040045
Selected Volatile Organic Compounds	by EPA Method	8260B						
Benzene	ND		mg/kg dry	0.00200	1	03/31/09 21:10	SW846 8260B	9034691
Ethylbenzene	0.111		mg/kg dry	0.00200	1	03/31/09 21:10	SW846 8260B	9034691
Naphthalene	1.07		mg/kg dry	0.291	50	04/01/09 20:07	SW846 8260B	9040118
Toluene	ND		mg/kg dry	0.00200	1	03/31/09 21:10	SW846 8260B	9034691
Xylenes, total	0.0931		mg/kg dry	0.00499	1	03/31/09 21:10	SW846 8260B	9034691
Surr: 1,2-Dichloroethane-d4 (41-150%)	98 %					03/31/09 21:10	SW846 8260B	903469
Surr: 1,2-Dichloroethane-d4 (41-150%)	103 %					04/01/09 20:07	SW846 8260B	904011
Surr: Dibromofluoromethane (55-139%)	94 %					03/31/09 21:10	SW846 8260B	903469
Surr: Dibromofluoromethane (55-139%)	96 %					04/01/09 20:07	SW846 8260B	904011
Surr: Toluene-d8 (57-148%)	119 %					03/31/09 21:10	SW846 8260B	903469
Surr: Toluene-d8 (57-148%)	98 %					04/01/09 20:07	SW846 8260B	904011
Surr: 4-Bromofluorobenzene (58-150%)	146 %					03/31/09 21:10	SW846 8260B	903469
Surr: 4-Bromofluorobenzene (58-150%)	109 %					04/01/09 20:07	SW846 8260B	904011





10179 Highway 78 Ladson, SC 29456

Tom McElwee

Attn

Work Order:

NSC2487

Project Name:

Laurel Bay Housing Project

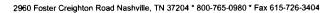
Project Number:

[none]

Received: 03/27/09 08:00

ANALYTICAL REPORT

Sample Dr. NSC2487-04 (160 Cypress - Soil) Sampled: 03/25/09 10:00 Polyaromatic Hydrocarbons by EPA 8270D	Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Acenaphthene 0.465 mg/kg dry 0.0879 1 0.300.09 16-42 SW46 8270D 9034224 Acenaphthylene ND mg/kg dry 0.0879 1 0.330.09 16-42 SW46 8270D 9034224 Anthracene 0.341 mg/kg dry 0.0879 1 0.330.09 16-42 SW46 8270D 9034242 Benzo (a) prizene 0.166 mg/kg dry 0.0879 1 0.330.09 16-42 SW46 8270D 9034242 Benzo (b) Fluoranthene 0.206 mg/kg dry 0.0879 1 0.330.09 16-42 SW46 8270D 9034242 Benzo (b) Fluoranthene 0.162 mg/kg dry 0.0879 1 0.330.09 16-42 SW46 8270D 9034242 Chrysene 0.162 mg/kg dry 0.0879 1 0.330.09 16-42 SW46 8270D 9034242 Chrysene 0.139 mg/kg dry 0.0879 1 0.330.09 16-42 SW46 8270D 9034242 Elucanthene 0.742 mg/kg dry 0.0879 1 0.330.09 16-42 SW46 8270D 9034242 <td>Sample ID: NSC2487-04 (160 Cyp</td> <td>ress - Soil) San</td> <td>npled: 03</td> <td>/25/09 10:00</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Sample ID: NSC2487-04 (160 Cyp	ress - Soil) San	npled: 03	/25/09 10:00					
Acenaphthylene ND mg/kg dry 0.0879 1 0.33009 16-42 SW846 8270D 9034242 Anthracene 0.341 mg/kg dry 0.0879 1 0.33009 16-42 SW846 8270D 9034242 Benzo (a) Intracene 0.332 mg/kg dry 0.0879 1 0.33009 16-42 SW846 8270D 9034242 Benzo (b) Intracente 0.166 mg/kg dry 0.0879 1 0.33009 16-42 SW846 8270D 9034242 Benzo (k) Intracente ND mg/kg dry 0.0879 1 0.33009 16-42 SW846 8270D 9034242 Benzo (k) Internatione 0.162 mg/kg dry 0.0879 1 0.33009 16-42 SW846 8270D 9034242 Benzo (k) Internatione 0.162 mg/kg dry 0.0879 1 0.33009 16-42 SW846 8270D 9034242 Chrysene 0.162 mg/kg dry 0.0879 1 0.33009 16-42 SW846 8270D 9034242 Elucardine 1.04 mg/kg dry 0.0879 1 0.33009 16-42 SW846 8270D	Polyaromatic Hydrocarbons by EPA 82	270 D							
Acemaphthylene ND mg/kg dry 0.0879 1 0.30300 p16-42 SW46 k270D 9034242 Anthracene 0.341 mg/kg dry 0.0879 1 0.33000 p16-42 SW46 k270D 9034242 Benzo (a) Infracene 0.166 mg/kg dry 0.0879 1 0.33000 p16-42 SW46 k270D 9034242 Benzo (b) Ilucrattlene 0.266 mg/kg dry 0.0879 1 0.33000 p16-42 SW46 k270D 9034242 Benzo (b) Ilucrattlene 0.162 mg/kg dry 0.0879 1 0.33000 p16-42 SW46 k270D 9034242 Benzo (k) Ilucrattlene 0.162 mg/kg dry 0.0879 1 0.33000 p16-42 SW46 k270D 9034242 Chrysene 0.33 mg/kg dry 0.0879 1 0.33000 p16-42 SW46 k270D 9034242 Fluorantene 0.742 mg/kg dry 0.0879 1 0.33000 p16-42 SW46 k270D 9034242 Brown in (L)2,3-cd) pyrene 0.767 mg/kg dry 0.0879 1 0.33000 p16-42 SW46 k270	Acenaphthene	0.465		mg/kg dry	0.0879	1	03/30/09 16:42	SW846 8270D	9034242
Anthracene 0.341 mg/kg dry 0.0879 1 0.33090 16.42 SW46 82700 9034222 Bernzo (a) prirene 0.366 mg/kg dry 0.0879 1 0.33009 16.42 SW46 82700 9034222 Benzo (b) fluoranthene 0.166 mg/kg dry 0.0879 1 0.33009 16.42 SW46 82700 9034222 Benzo (b) fluoranthene 0.102 mg/kg dry 0.0879 1 0.33009 16.42 SW46 82700 9034222 Benzo (k) fluoranthene 0.162 mg/kg dry 0.0879 1 0.33009 16.42 SW46 82700 9034242 Chysene 0.339 mg/kg dry 0.0879 1 0.33009 16.42 SW46 82700 9034242 Elucranthene 0.742 mg/kg dry 0.0879 1 0.33009 16.42 SW46 82700 9034242 Fluorene 1.48 mg/kg dry 0.0879 1 0.33009 16.42 SW46 82700 9034242 Phenathene 1.99 mg/kg dry 0.0879 1 0.33009 16.42 SW46 82700 9034242 <td>•</td> <td>ND</td> <td></td> <td></td> <td>0.0879</td> <td>1</td> <td>03/30/09 16:42</td> <td>SW846 8270D</td> <td>9034242</td>	•	ND			0.0879	1	03/30/09 16:42	SW846 8270D	9034242
Benzo (a) anthracene 0.332 mg/kg dry 0.0879 1 033009 16/22 08446 82700 9034242 Benzo (a) prycene 0.166 mg/kg dry 0.0879 1 033009 16/42 5846 82700 9034242 Benzo (a) fluoranthene 0.106 mg/kg dry 0.0879 1 033009 16/42 5846 82700 9034242 Benzo (k) fluoranthene 0.162 mg/kg dry 0.0879 1 033009 16/42 5846 82700 9034242 Chrysene 0.339 mg/kg dry 0.0879 1 033009 16/42 5846 82700 9034242 Chrysene 0.339 mg/kg dry 0.0879 1 033009 16/42 5846 82700 9034242 Chrysene 1.48 mg/kg dry 0.0879 1 033009 16/42 5846 82700 9034242 Fluorene 1.48 mg/kg dry 0.0879 1 033009 16/42 5846 82700 9034242 Fluorene 1.49 mg/kg dry 0.0879 1 033009 16/42 5846 82700 9034242 <tr< td=""><td>1 ,</td><td></td><td></td><td></td><td>0.0879</td><td>1</td><td>03/30/09 16:42</td><td>SW846 8270D</td><td>9034242</td></tr<>	1 ,				0.0879	1	03/30/09 16:42	SW846 8270D	9034242
Benzo (a) pyrene		0.332			0.0879	1	03/30/09 16:42	SW846 8270D	9034242
Benzo (t) Huoranthene 0.206 mg/kg dry 0.0879 1 03/30/09 16:42 SW846 82700 9034242 Benzo (k), hi perylene ND mg/kg dry 0.0879 1 03/30/09 16:42 SW846 82700 9034242 Benzo (k) fluoranthene 0.162 mg/kg dry 0.0879 1 03/30/09 16:42 SW846 82700 9034242 Chrysene 0.339 mg/kg dry 0.0879 1 03/30/09 16:42 SW846 82700 9034242 Fluoranthene ND mg/kg dry 0.0879 1 03/30/09 16:42 SW846 82700 9034242 Fluorene 1.48 mg/kg dry 0.0879 1 03/30/09 16:42 SW846 82700 9034242 Fluorene 1.48 mg/kg dry 0.0879 1 03/30/09 16:42 SW846 82700 9034242 Prene 1.09 mg/kg dry 0.0879 1 03/30/09 16:42 SW846 82700 9034242 Swar- Strophyl-14 (26-128%) 76 3 0.0879 1 03/30/09 16:42 SW846 82700 9034242 <td>\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \</td> <td>0.166</td> <td></td> <td></td> <td>0.0879</td> <td>1</td> <td>03/30/09 16:42</td> <td>SW846 8270D</td> <td>9034242</td>	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0.166			0.0879	1	03/30/09 16:42	SW846 8270D	9034242
Benzo (g,h,i) perylene ND mg/kg dry 0.0879 1 03/30/09 16:42 SW846 8270D 9034242 Benzo (k) fluoranthene 0.162 mg/kg dry 0.0879 1 03/30/09 16:42 SW846 8270D 9034242 Chrysene 0.339 mg/kg dry 0.0879 1 03/30/09 16:42 SW846 8270D 9034242 Dibenz (a,h) anthracene ND mg/kg dry 0.0879 1 03/30/09 16:42 SW846 8270D 9034242 Fluoranthene 0.742 mg/kg dry 0.0879 1 03/30/09 16:42 SW846 8270D 9034242 Indeno (1,2,3-ed) pyrene ND mg/kg dry 0.0879 1 03/30/09 16:42 SW846 8270D 9034242 Phenanthrene 1.99 mg/kg dry 0.0879 1 03/30/09 16:42 SW846 8270D 9034242 Pyrene 0.767 mg/kg dry 0.0879 1 03/30/09 16:42 SW846 8270D 9034242 Surr: Trophenyl-Id (26-128%) 76 % 0.0879 0.0879 1 03/30/09 16:42 SW846 827						1	03/30/09 16:42	SW846 8270D	9034242
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Selected Volatile Organic Compounds by EPA Method 8260B Benzene 0.00269 mg/kg dry 0.00240 1 03/31/09 21:41 SW846 8260B 9034691 Ethylbenzene 1.64 mg/kg dry 0.126 50 03/31/09 22:11 SW846 8260B 9034691 Naphthalene 12.5 mg/kg dry 3.15 500 04/01/09 20:38 SW846 8260B 9040118 Toluene ND mg/kg dry 0.00240 1 03/31/09 21:41 SW846 8260B 9034691 Xylenes, total 0.357 mg/kg dry 0.00599 1 03/31/09 21:41 SW846 8260B 9034691 Surr: 1,2-Dichloroethane-d4 (41-150%) 103 % 103/31/09 21:41 SW846 8260B 9034691 Surr: 1,2-Dichloroethane-d4 (41-150%) 99 % 1 03/31/09 21:41 SW846 8260B 9034691 Surr: 1,2-Dichloroethane-d4 (41-150%) 97 % 1 03/31/09 22:11 SW846 8260B 9034691 Surr: Dibromofluoromethane (55-139%) 98 % 1 04/01/09 20:38 SW846 8260B 9034691 Su	•	75.5		97	0.500	,	04/02/00 00:42	SW 846	9040045
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Toluene ND mg/kg dry 0.00240 1 03/31/09 21:41 SW846 8260B 9034691 Xylenes, total 0.357 mg/kg dry 0.00599 1 03/31/09 21:41 SW846 8260B 9034691 Surr: 1,2-Dichloroethane-d4 (41-150%) 99 % 03/31/09 22:41 SW846 8260B 9034691 Surr: 1,2-Dichloroethane-d4 (41-150%) 99 % 03/31/09 22:11 SW846 8260B 9034691 Surr: 1,2-Dichloroethane-d4 (41-150%) 97 % 04/01/09 20:38 SW846 8260B 9034691 Surr: Dibromofluoromethane (55-139%) 98 % 03/31/09 21:41 SW846 8260B 9034691 Surr: Dibromofluoromethane (55-139%) 92 % 03/31/09 22:11 SW846 8260B 9034691 Surr: Toluene-d8 (57-148%) 128 % 03/31/09 22:11 SW846 8260B 9034691 Surr: Toluene-d8 (57-148%) 103 % 03/31/09 22:11 SW846 8260B 9034691 Surr: Toluene-d8 (57-148%) 103 % 03/31/09 22:11 SW846 8260B 9034691 Surr: Toluene-d8 (57-148%) 105 % 04/01/09 20:38 SW846 8260B 9034691 Surr: A-Bromofluorobenzene (58-150%) 130 % 03/31/09 22:11 SW846 8260B 9034691 Surr: 4-Bromofluorobenzene (58-150%) 115 % 03/31/09 22:11 SW846 8260B 9034691	Ethylbenzene	1.64		mg/kg dry	0.126	50	03/31/09 22:11	SW846 8260B	9034691
Xylenes, total 0.357 mg/kg dry 0.00599 1 03/31/09 21:41 SW846 8260B 9034691 Surr: 1,2-Dichloroethane-d4 (41-150%) 103 % 03/31/09 21:41 SW846 8260B 9034691 Surr: 1,2-Dichloroethane-d4 (41-150%) 99 % 03/31/09 22:11 SW846 8260B 9034691 Surr: 1,2-Dichloroethane-d4 (41-150%) 97 % 04/01/09 20:38 SW846 8260B 9040118 Surr: Dibromofluoromethane (55-139%) 98 % 03/31/09 21:41 SW846 8260B 9034691 Surr: Dibromofluoromethane (55-139%) 92 % 03/31/09 22:11 SW846 8260B 9034691 Surr: Dibromofluoromethane (55-139%) 93 % 04/01/09 20:38 SW846 8260B 9034691 Surr: Toluene-d8 (57-148%) 128 % 03/31/09 21:41 SW846 8260B 9034691 Surr: Toluene-d8 (57-148%) 103 % 03/31/09 22:11 SW846 8260B 9034691 Surr: Toluene-d8 (57-148%) 105 % 03/31/09 22:41 SW846 8260B 9034691 Surr: 4-Bromofluorobenzene (58-150%) 130 % 03/31/09 22:41 SW846 8260B 9034691 Surr	Naphthalene	12.5		mg/kg dry	3.15	500	04/01/09 20:38	SW846 8260B	9040118
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Surr: Dibromofluoromethane (55-139%) 98 % 03/31/09 21:41 SW846 8260B 9034691 Surr: Dibromofluoromethane (55-139%) 92 % 03/31/09 22:11 SW846 8260B 9034691 Surr: Dibromofluoromethane (55-139%) 93 % 04/01/09 20:38 SW846 8260B 9040118 Surr: Toluene-d8 (57-148%) 128 % 03/31/09 21:41 SW846 8260B 9034691 Surr: Toluene-d8 (57-148%) 103 % 03/31/09 22:11 SW846 8260B 9034691 Surr: Toluene-d8 (57-148%) 105 % 04/01/09 20:38 SW846 8260B 9040118 Surr: 4-Bromofluorobenzene (58-150%) 130 % 03/31/09 21:41 SW846 8260B 9034691 Surr: 4-Bromofluorobenzene (58-150%) 115 % 03/31/09 22:11 SW846 8260B 9034691	Surr: 1,2-Dichloroethane-d4 (41-150%)	99 %					03/31/09 22:11	SW846 8260B	9034691
Surr: Dibromofluoromethane (55-139%) 92 % 03/31/09 22:11 SW846 8260B 9034691 Surr: Dibromofluoromethane (55-139%) 93 % 04/01/09 20:38 SW846 8260B 9040118 Surr: Toluene-d8 (57-148%) 128 % 03/31/09 21:41 SW846 8260B 9034691 Surr: Toluene-d8 (57-148%) 103 % 03/31/09 22:11 SW846 8260B 9034691 Surr: Toluene-d8 (57-148%) 105 % 04/01/09 20:38 SW846 8260B 9040118 Surr: 4-Bromofluorobenzene (58-150%) 130 % 03/31/09 21:41 SW846 8260B 9034691 Surr: 4-Bromofluorobenzene (58-150%) 115 % 03/31/09 22:11 SW846 8260B 9034691	Surr: 1,2-Dichloroethane-d4 (41-150%)	97 %					04/01/09 20:38	SW846 8260B	9040118
Surr: Dibromofluoromethane (55-139%) 93 % 04/01/09 20:38 SW846 8260B 9040118 Surr: Toluene-d8 (57-148%) 128 % 03/31/09 21:41 SW846 8260B 9034691 Surr: Toluene-d8 (57-148%) 103 % 03/31/09 22:11 SW846 8260B 9034691 Surr: Toluene-d8 (57-148%) 105 % 04/01/09 20:38 SW846 8260B 9040118 Surr: 4-Bromofluorobenzene (58-150%) 130 % 03/31/09 21:41 SW846 8260B 9034691 Surr: 4-Bromofluorobenzene (58-150%) 115 % 03/31/09 22:11 SW846 8260B 9034691	Surr: Dibromofluoromethane (55-139%)	98 %					03/31/09 21:41		
Surr: Toluene-d8 (57-148%) 128 % 03/31/09 21:41 SW846 8260B 9034691 Surr: Toluene-d8 (57-148%) 103 % 03/31/09 22:11 SW846 8260B 9034691 Surr: Toluene-d8 (57-148%) 105 % 04/01/09 20:38 SW846 8260B 9040118 Surr: 4-Bromofluorobenzene (58-150%) 130 % 03/31/09 21:41 SW846 8260B 9034691 Surr: 4-Bromofluorobenzene (58-150%) 115 % 03/31/09 22:11 SW846 8260B 9034691									
Surr: Toluene-d8 (57-148%) 103 % 03/31/09 22:11 SW846 8260B 9034691 Surr: Toluene-d8 (57-148%) 105 % 04/01/09 20:38 SW846 8260B 9040118 Surr: 4-Bromofluorobenzene (58-150%) 130 % 03/31/09 21:41 SW846 8260B 9034691 Surr: 4-Bromofluorobenzene (58-150%) 115 % 03/31/09 22:11 SW846 8260B 9034691									
Surr: Toluene-d8 (57-148%) 105 % 04/01/09 20:38 SW846 8260B 9040118 Surr: 4-Bromofluorobenzene (58-150%) 130 % 03/31/09 21:41 SW846 8260B 9034691 Surr: 4-Bromofluorobenzene (58-150%) 115 % 03/31/09 22:11 SW846 8260B 9034691									
Surr: 4-Bromofluorobenzene (58-150%) 130 % 03/31/09 21:41 SW846 8260B 9034691 Surr: 4-Bromofluorobenzene (58-150%) 115 % 03/31/09 22:11 SW846 8260B 9034691									
Surr: 4-Bromofluorobenzene (58-150%) 115 % 03/31/09 22:11 SW846 8260B 9034691	• • •								
	Surr: 4-Bromofluorobenzene (58-150%)	104 %					04/01/09 20:38		





Attn

Client EEG - Env. Enterprise Group (2449)

10179 Highway 78

Ladson, SC 29456

Tom McElwee

Work Order:

NSC2487

03/27/09 08:00

Project Name:

Laurel Bay Housing Project

Project Number:

[none]

Received:

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
Polyaromatic Hydrocarbons by EPA 8							
SW846 8270D	9034242	NSC2487-01	30.22	1.00	03/28/09 09:00	DMG	EPA 3550B
SW846 8270D	9034242	NSC2487-01RE1	30.22	1.00	03/28/09 09:00	DMG	EPA 3550B
SW846 8270D	9034242	NSC2487-02	30.87	1.00	03/28/09 09:00	DMG	EPA 3550B
SW846 8270D	9034242	NSC2487-03	30.01	1.00	03/28/09 09:00	DMG	EPA 3550B
SW846 8270D	9034242	NSC2487-04	30.28	1.00	03/28/09 09:00	DMG	EPA 3550B
Selected Volatile Organic Compounds	by EPA Method	8260B					
SW846 8260B	9034691	NSC2487-01	5.55	5.00	03/23/09 10:35	JRL	EPA 5035
SW846 8260B	9040118	NSC2487-01RE1	6.72	5.00	03/23/09 10:35	JRL	EPA 5035
SW846 8260B	9040118	NSC2487-01RE2	6.37	5.00	03/23/09 10:35	JRL	EPA 5035
SW846 8260B	9034691	NSC2487-02	6.10	5.00	03/24/09 10:30	JRL	EPA 5035
SW846 8260B	9034691	NSC2487-03	6.32	5.00	03/24/09 14:30	JRL	EPA 5035
SW846 8260B	9040118	NSC2487-03RE1	5.42	5.00	03/24/09 14:30	JRL	EPA 5035
SW846 8260B	9034691	NSC2487-04	5.53	5.00	03/25/09 10:00	JRL	EPA 5035
SW846 8260B	9034691	NSC2487-04RE1	5.26	5.00	03/25/09 10:00	JRL	EPA 5035
SW846 8260B	9040118	NSC2487-04RE2	5.26	5.00	03/25/09 10:00	JRL	EPA 5035



Attn

Client EEG - Env. Enterprise Group (2449)

10179 Highway 78

Ladson, SC 29456

Tom McElwee

Work Order:

NSC2487

Project Name:

Laurel Bay Housing Project

Project Number:

[none]

03/27/09 08:00 Received:

PROJECT QUALITY CONTROL DATA Blank

Polyaromatic Hydrocarbons by EPA 8270D							
Polyaromatic Hydrocarbons by EPA 8279D 9034224-BLK1	Analyte	Blank Value	Q	Units	Q.C. Batch		Analyzed Date/Time
Accessphithylene	Polyaromatic Hydrocarbons by	EPA 8270D					
Access Prince 40,0320 mg/kg wet 9034242 9034242-BLK 033009 12-52	9034242-BLK1						
Anthracene	Acenaphthene	< 0.0310		mg/kg wet	9034242	9034242-BLK1	03/30/09 12:52
Benzo (a) anthracenc	Accnaphthylene	< 0.0320		mg/kg wet	9034242	9034242-BLK1	03/30/09 12:52
Benzo (a) pyrane	Anthracene	< 0.0330		mg/kg wet	9034242	9034242-BLK1	03/30/09 12:52
Benzo (t) fluoranthene	Benzo (a) anthracene	< 0.0380		mg/kg wet	9034242	9034242-BLK1	03/30/09 12:52
Benzo (g,h.i) perylene	Benzo (a) pyrene	< 0.0290		mg/kg wet	9034242	9034242-BLK1	03/30/09 12:52
Benzo (k) fluoranthene	Benzo (b) fluoranthene	< 0.0320		mg/kg wet	9034242	9034242-BLK1	03/30/09 12:52
Chryscine -0.0399 mg/kg wet 9034242 9034242-BLK1 0.03/3009 12:52	Benzo (g,h,i) perylene	< 0.0290		mg/kg wet	9034242	9034242-BLK1	03/30/09 12:52
Dibenz (a,h) anthraeene	Benzo (k) fluoranthene	< 0.0290		mg/kg wet	9034242	9034242-BLK1	03/30/09 12:52
Fluoranthene	Chrysene	< 0.0390		mg/kg wet	9034242	9034242-BLK1	03/30/09 12:52
Fluorene	Dibenz (a,h) anthracenc	< 0.0310		mg/kg wet	9034242	9034242-BLK1	03/30/09 12:52
Indeno (1,2,3-ed) pyrene	Fluoranthene	< 0.0340		mg/kg wet	9034242	9034242-BLK1	03/30/09 12:52
Naphthalene	Fluorene	< 0.0390		mg/kg wct	9034242	9034242-BLK1	03/30/09 12:52
Phenanthrene	Indeno (1,2,3-cd) pyrene	< 0.0310		mg/kg wct	9034242	9034242-BLK1	03/30/09 12:52
Pyrene	Naphthalene	< 0.0410		mg/kg wet	9034242	9034242-BLK1	03/30/09 12:52
Surrogate: Terphenyl-d14	Phenanthrene	< 0.0340		mg/kg wet	9034242	9034242-BLK1	03/30/09 12:52
Surrogate: 2-Fluorohiphenyl 74% 9034242 9034242-BLK1 03/30/09 12:52	Pyrene	< 0.0410		mg/kg wct	9034242	9034242-BLK1	03/30/09 12:52
Surrogate: Nitrobenzene-d5 74% 9034242 9034242-BLK1 03/30/09 12:52	Surrogate: Terphenyl-d14	84%			9034242	9034242-BLK1	03/30/09 12:52
Selected Volatile Organic Compounds by EPA Method 8260B	Surrogate: 2-Fluorobiphenyl	74%			9034242	9034242-BLK1	03/30/09 12:52
Surrogate: 1.2-Dichloroethane-d4 102% 103%	Surrogate: Nitrobenzene-d5	74%			9034242	9034242-BLK1	03/30/09 12:52
Surrogate: 1.2-Dichloroethane-d8 103%	Selected Volatile Organic Comp	ounds by EPA Method	8260B				
Benzene \$0,000670 mg/kg wet 9034691 9034691-BLK1 03/31/09 15:01 Ethylbenzene \$0,000670 mg/kg wet 9034691 9034691-BLK1 03/31/09 15:01 Naphthalene \$0,00151 mg/kg wet 9034691 9034691-BLK1 03/31/09 15:01 Toluene \$0,000670 mg/kg wet 9034691 9034691-BLK1 03/31/09 15:01 Xylenes, total \$0,00172 mg/kg wet 9034691 9034691-BLK1 03/31/09 15:01 Surrogate: 1,2-Dichloroethane-d4 102% 9034691 9034691-BLK1 03/31/09 15:01 Surrogate: Dibromofluoromethane 97% 9034691 9034691-BLK1 03/31/09 15:01 Surrogate: Toluene-d8 103% 9034691 9034691-BLK1 03/31/09 15:01 Surrogate: 4-Bromofluorobenzene 102% 9034691 9034691-BLK1 03/31/09 15:01 Surrogate: 4-Bromofluorobenzene 102% 9034691 9034691-BLK1 03/31/09 15:01 Surrogate: 4-Bromofluorobenzene 102% 9034691 9034691-BLK1 03/31/09 15:01 Surrogate: 4-Bromofluorobenzene 0,000670 mg/kg wet 9040118 9040118-BLK1 04/01/09 15:26 Ethylbenzene \$0,000670 mg/kg wet 9040118 9040118-BLK1 04/01/09 15:26 Naphthalene \$0,000670 mg/kg wet 9040118 9040118-BLK1 04/01/09 15:26 Toluene \$0,000670 mg/kg wet 9040118 9040118-BLK1 04/01/09 15:26 Surrogate: 1,2-Dichloroethane-d4 100% 9040118 9040118-BLK1 04/01/09 15:26 Surrogate: 1,2-Dichloroethane-d4 100% 9040118 9040118-BLK1 04/01/09 15:26 Surrogate: Dibromofluoromethane 96% 9040118 9040118-BLK1 04/01/09		, <u> </u>					
Ethylbenzene <0.000670 mg/kg wet 9034691 9034691-BLK1 03/31/09 15:01 Naphthalene <0.000151 mg/kg wet 9034691 9034691-BLK1 03/31/09 15:01 Toluene <0.000670 mg/kg wet 9034691 9034691-BLK1 03/31/09 15:01 Xylenes, total <0.000172 mg/kg wet 9034691 9034691-BLK1 03/31/09 15:01 Surrogate: 1.2-Dichloroethane-d4 102% 9034691 9034691-BLK1 03/31/09 15:01 Surrogate: Dibromofluoromethane 97% 9034691 9034691-BLK1 03/31/09 15:01 Surrogate: Toluene-d8 103% 9034691 9034691-BLK1 03/31/09 15:01 Surrogate: 4-Bromofluorobenzene 102% 9034691 9034691-BLK1 03/31/09 15:01 90440118-BLK1 Benzene <0.000670 mg/kg wet 9040118 9040118-BLK1 04/01/09 15:26 Ethylbenzene <0.000670 mg/kg wet 9040118 9040118-BLK1 04/01/09 15:26 Naphthalene <0.000151 mg/kg wet 9040118 9040118-BLK1 04/01/09 15:26 Toluene <0.000670 mg/kg wet 9040118 9040118-BLK1 04/01/09 15:26 Xylenes, total <0.000670 mg/kg wet 9040118 9040118-BLK1 04/01/09 15:26 Surrogate: 1,2-Dichloroethane-d4 100% 904012 mg/kg wet 9040118 9040118-BLK1 04/01/09 15:26 Surrogate: 1,2-Dichloroethane-d4 100% 904018 9040118-BLK1 04/01/09 15:26 Surrogate: Dibromofluoromethane 96%		< 0.000670		mg/kg wet	9034691	9034691-BLK1	03/31/09 15:01
Naphthalene <0.00151 mg/kg wet 9034691 9034691-BLK1 03/31/09 15:01				· -	9034691	9034691-BLK1	03/31/09 15:01
Toluenc <0.000670 mg/kg wet 9034691 9034691-BLK1 03/31/09 15:01 Xylcnes, total <0.00172 mg/kg wet 9034691 9034691-BLK1 03/31/09 15:01 Surrogate: 1,2-Dichloroethane-d4 102% 9034691 9034691-BLK1 03/31/09 15:01 Surrogate: Dibromofluoromethane 97% 9034691 9034691-BLK1 03/31/09 15:01 Surrogate: Toluene-d8 103% 9034691 9034691-BLK1 03/31/09 15:01 Surrogate: 4-Bromofluorobenzene 102% 9034691 9034691-BLK1 03/31/09 15:01 9040118-BLK1 Benzene <0.000670 mg/kg wet 9040118 9040118-BLK1 04/01/09 15:26 Ethylbenzene <0.000670 mg/kg wet 9040118 9040118-BLK1 04/01/09 15:26 Naphthalene <0.00151 mg/kg wet 9040118 9040118-BLK1 04/01/09 15:26 Toluene <0.000670 mg/kg wet 9040118 9040118-BLK1 04/01/09 15:26 Xylcnes, total <0.00172 mg/kg wet 9040118 9040118-BLK1 04/01/09 15:26 Surrogate: 1,2-Dichloroethane-d4 100% 9040118 9040118-BLK1 04/01/09 15:26 Surrogate: Dibromofluoromethane 96%	•				9034691	9034691-BLK1	03/31/09 15:01
Xylcnes, total <0.00172 mg/kg wet 9034691 9034691-BLK1 03/31/09 15:01	-				9034691	9034691-BLK1	03/31/09 15:01
Surrogate: 1.2-Dichloroethane-d4 102% 9034691 9034691-BLK1 03/31/09 15:01 Surrogate: Dibromofluoromethane 97% 9034691 9034691-BLK1 03/31/09 15:01 Surrogate: Toluene-d8 103% 9034691 9034691-BLK1 03/31/09 15:01 Surrogate: 4-Bromofluorobenzene 102% 9034691 9034691-BLK1 03/31/09 15:01 9040118-BLK1 8040118-BLK1 04/01/09 15:26 04/01/09 15:26 Ethylbenzene <0.000670 mg/kg wet 9040118 9040118-BLK1 04/01/09 15:26 Naphthalene <0.00151 mg/kg wet 9040118 9040118-BLK1 04/01/09 15:26 Toluene <0.000670 mg/kg wet 9040118 9040118-BLK1 04/01/09 15:26 Xylenes, total <0.00172 mg/kg wet 9040118 9040118-BLK1 04/01/09 15:26 Surrogate: 1,2-Dichloroethane-d4 100% 9040118 9040118-BLK1 04/01/09 15:26 Surrogate: Dibromofluoromethane 96%	Xylenes, total	< 0.00172			9034691	9034691-BLK1	03/31/09 15:01
Surrogate: Dibromofluoromethane 97% 9034691 9034691-BLK1 03/31/09 15:01 Surrogate: Toluene-d8 103% 9034691 9034691-BLK1 03/31/09 15:01 Surrogate: 4-Bromofluorobenzene 102% 9034691 9034691-BLK1 03/31/09 15:01 9040118-BLK1 03/31/09 15:01 9040118-BLK1 04/01/09 15:26 Ethylbenzene <0.000670 mg/kg wet 9040118 9040118-BLK1 04/01/09 15:26 Naphthalene <0.00151 mg/kg wet 9040118 9040118-BLK1 04/01/09 15:26 Toluene <0.000670 mg/kg wet 9040118 9040118-BLK1 04/01/09 15:26 Xylenes, total <0.00172 mg/kg wet 9040118 9040118-BLK1 04/01/09 15:26 Surrogate: 1,2-Dichloroethane-d4 100% 9040118 9040118-BLK1 04/01/09 15:26 Surrogate: Dibromofluoromethane 96% 9040118 9040118-BLK1 04/01/09 15:26		102%			9034691	9034691-BLK1	03/31/09 15:01
Surrogate: Toluene-d8 103% 9034691 9034691-BLK1 03/31/09 15:01 9040118-BLK1 03/31/09 15:01 9040118-BLK1 03/31/09 15:01 9040118-BLK1 03/31/09 15:01 9040118-BLK1 04/01/09 15:26 Ethylbenzene <0.000670 mg/kg wet 9040118 9040118-BLK1 04/01/09 15:26 Naphthalene <0.00151 mg/kg wet 9040118 9040118-BLK1 04/01/09 15:26 Toluene <0.000670 mg/kg wet 9040118 9040118-BLK1 04/01/09 15:26 Xylenes, total <0.00172 mg/kg wet 9040118 9040118-BLK1 04/01/09 15:26 Surrogate: 1,2-Dichloroethane-d4 100% 9040118 9040118-BLK1 04/01/09 15:26 Surrogate: Dibromofluoromethane 96% 9040118 9040118-BLK1 04/01/09 15:26	-				9034691	9034691-BLK1	03/31/09 15:01
Surrogate: 4-Bromofluorobenzene 102% 9034691 9034691-BLK1 03/31/09 15:01 9040118-BLK1 03/31/09 15:01 9040118-BLK1 04/01/09 15:26 Ethylbenzene <0.000670 mg/kg wet 9040118 9040118-BLK1 04/01/09 15:26 Naphthalene <0.00151 mg/kg wet 9040118 9040118-BLK1 04/01/09 15:26 Toluene <0.000670 mg/kg wet 9040118 9040118-BLK1 04/01/09 15:26 Xylenes, total <0.00172 mg/kg wet 9040118 9040118-BLK1 04/01/09 15:26 Surrogate: 1,2-Dichloroethane-d4 100% 9040118 9040118-BLK1 04/01/09 15:26 Surrogate: Dibromofluoromethane 96% 9040118 9040118-BLK1 04/01/09 15:26	· ·						
Benzene <0.000670 mg/kg wet 9040118 9040118-BLK1 04/01/09 15:26 Ethylbenzene <0.000670	Surrogate: 4-Bromofluorobenzene	102%			9034691	9034691-BLK1	03/31/09 15:01
Ethylbenzene <0.000670 mg/kg wet 9040118 9040118-BLK1 04/01/09 15:26 Naphthalene <0.00151	9040118-BLK1						
Naphthalene <0.00151 mg/kg wet 9040118 9040118-BLK1 04/01/09 15:26 Toluene <0.000670		< 0.000670		mg/kg wet	9040118	9040118-BLK1	04/01/09 15:26
Tolucne <0.000670 mg/kg wet 9040118 9040118-BLK1 04/01/09 15:26 Xylenes, total <0.00172	Ethylbenzene	< 0.000670		mg/kg wet	9040118	9040118-BLK1	04/01/09 15:26
Xylcncs, total <0.00172 mg/kg wct 9040118 9040118-BLK1 04/01/09 15:26 Surrogate: 1,2-Dichloroethane-d4 100% 9040118 9040118-BLK1 04/01/09 15:26 Surrogate: Dibromofluoromethane 96% 9040118 9040118-BLK1 04/01/09 15:26	Naphthalene	< 0.00151		mg/kg wet	9040118	9040118-BLK1	04/01/09 15:26
Surrogate: 1,2-Dichloroethane-d4 100% 9040118 9040118-BLK1 04/01/09 15:26 Surrogate: Dibromofluoromethane 96% 9040118 9040118-BLK1 04/01/09 15:26	Toluene	< 0.000670		mg/kg wet	9040118	9040118-BLK1	04/01/09 15:26
Surrogate: Dibromofluoromethane 96% 9040118 9040118-BLK1 04/01/09 15:26	Xylenes, total	< 0.00172		mg/kg wet	9040118	9040118-BLK1	04/01/09 15:26
Surrogate: Dibromofluoromethane 96% 9040118 9040118-BLK1 04/01/09 15:26	Surrogate: 1,2-Dichloroethane-d4	100%			9040118	9040118-BLK1	04/01/09 15:26
	Surrogate: Dibromofluoromethane				9040118	9040118-BLK1	04/01/09 15:26
	Surrogate: Toluene-d8	103%			9040118	9040118-BLK1	04/01/09 15:26



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

EEG - Env. Enterprise Group (2449) Client

10179 Highway 78

Ladson, SC 29456

Tom McElwee

Work Order:

NSC2487

Project Name:

Laurel Bay Housing Project

Project Number:

[none]

Received:

03/27/09 08:00

PROJECT QUALITY CONTROL DATA Blank - Cont.

Units

Analyte

Attn

Blank Value

Q.C. Batch

Lab Number

Analyzed Date/Time

Selected Volatile Organic Compounds by EPA Method 8260B

9040118-BLK1

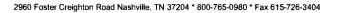
Surrogate: 4-Bromofluorobenzene

103%

9040118

9040118-BLK1

04/01/09 15:26





10179 Highway 78

Ladson, SC 29456 Tom McElwee

Attn

Work Order:

NSC2487

Project Name:

Laurel Bay Housing Project

Project Number:

[none]

03/27/09 08:00 Received:

PROJECT QUALITY CONTROL DATA

Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	Analyzed Datc/Time	
General Chemistry Parameters										
9040045-DUP1										
% Dry Solids	82.4	82.8		%	0.5	20	9040045	NSC2443-17	04/02/09 09:42	



10179 Highway 78 Ladson, SC 29456

Tom McElwee

Attn

Work Order:

NSC2487

Project Name:

Laurel Bay Housing Project

Project Number:

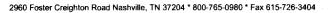
[none]

Received: 03/27/09 08:00

PROJECT QUALITY CONTROL DATA

1	•	C
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Analyte	Known Val.	Analyzed Val	Q	Units	% Rcc.	Target Range	Batch	Analyzed Date/Time
Polyaromatic Hydrocarbons by EP	PA 8270D							
9034242-BS1								
Acenaphthene	1.67	1.29		mg/kg wet	77%	52 - 106	9034242	03/30/09 13:15
Acenaphthylene	1.67	1.29		mg/kg wet	78%	53 - 109	9034242	03/30/09 13:15
Anthracene	1.67	1.45		mg/kg wet	87%	54 - 124	9034242	03/30/09 13:15
Benzo (a) anthracene	1.67	1.39		mg/kg wet	83%	53 - 111	9034242	03/30/09 13:15
Benzo (a) pyrene	1.67	1.43		mg/kg wet	86%	52 - 122	9034242	03/30/09 13:15
Benzo (b) fluoranthene	1.67	1.46		mg/kg wet	88%	48 - 115	9034242	03/30/09 13:15
Benzo (g,h,i) perylene	1.67	1.36		mg/kg wet	82%	46 - 114	9034242	03/30/09 13:15
Benzo (k) fluoranthene	1.67	1.25		mg/kg wet	75%	41 - 121	9034242	03/30/09 13:15
Chrysene	1.67	1.37		mg/kg wet	82%	49 - 113	9034242	03/30/09 13:15
Dibenz (a,h) anthracene	1.67	1.38		mg/kg wet	83%	47 - 117	9034242	03/30/09 13:15
Fluoranthene	1.67	1.28		mg/kg wet	77%	52 - 113	9034242	03/30/09 13:15
Fluorenc	1.67	1.30		mg/kg wet	78%	54 - 107	9034242	03/30/09 13:15
Indeno (1,2,3-cd) pyrene	1.67	1.40		mg/kg wet	84%	47 - 115	9034242	03/30/09 13:15
Naphthalene	1.67	1.11		mg/kg wet	67%	34 - 107	9034242	03/30/09 13:15
Phenanthrene	1.67	1.34		mg/kg wet	81%	53 - 108	9034242	03/30/09 13:15
Pyrene	1.67	1.49		mg/kg wet	89%	54 - 113	9034242	03/30/09 13:15
Surrogate: Terphenyl-d14	1.67	1.39			83%	26 - 128	9034242	03/30/09 13:15
Surrogate: 2-Fluorobiphenyl	1.67	1.25			75%	19 - 109	9034242	03/30/09 13:15
Surrogate: Nitrobenzene-d5	1.67	1.15			69%	22 - 104	9034242	03/30/09 13:15
Selected Volatile Organic Compou	nds by EPA Method 82	60B						
9034691-BS1								
Benzene	50.0	52.6		ug/kg	105%	76 - 130	9034691	03/31/09 13:00
Ethylbenzene	50.0	54.6		ug/kg	109%	80 - 128	9034691	03/31/09 13:00
Naphthalene	50.0	55.0		ug/kg	110%	63 - 144	9034691	03/31/09 13:00
Toluene	50.0	50.9		ug/kg	102%	80 - 125	9034691	03/31/09 13:00
Xylenes, total	150	164		ug/kg	109%	79 - 130	9034691	03/31/09 13:00
Surrogate: 1,2-Dichloroethane-d4	50.0	50.4			101%	41 - 150	9034691	03/31/09 13:00
Surrogate: Dibromofluoromethane	50.0	50.1			100%	55 - 139	9034691	03/31/09 13:00
Surrogate: Toluene-d8	50.0	52.0			104%	57 - 148	9034691	03/31/09 13:00
Surrogate: 4-Bromofluorobenzene	50.0	51.3			103%	58 - 150	9034691	03/31/09 13:00
9040118-BS1								
Benzene	50.0	51.1		ug/kg	102%	76 - 130	9040118	04/01/09 13:25
Ethylbenzene	50.0	54.0		ug/kg	108%	80 - 128	9040118	04/01/09 13:25
Naphthalene	50.0	53.7		ug/kg	107%	63 - 144	9040118	04/01/09 13:25
Toluene	50.0	50.2		ug/kg	100%	80 - 125	9040118	04/01/09 13:25
Xylenes, total	150	162		ug/kg	108%	79 - 130	9040118	04/01/09 13:25
Surrogate: 1,2-Dichloroethane-d4	50.0	49.1			98%	41 - 150	9040118	04/01/09 13:25
Surrogate: Dibromofluoromethane	50.0	48.6			97%	55 - 139	9040118	04/01/09 13:25
Surrogate: Toluene-d8	50.0	51.8			104%	57 - 148	9040118	04/01/09 13:25





Attn

Client EEG - Env. Enterprise Group (2449)

10179 Highway 78

Ladson, SC 29456 Tom McElwee

Work Order:

NSC2487

Project Name:

Laurel Bay Housing Project

Project Number:

[none]

03/27/09 08:00 Received:

PROJECT QUALITY CONTROL DATA LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Selected Volatile Organic Compounds by	EPA Method 82	60B						
9040118-BS1								
Surrogate: 4-Bromofluorobenzene	50.0	51.0			102%	58 - 150	9040118	04/01/09 13:25



10179 Highway 78 Ladson, SC 29456

Tom McElwee

Attn

Work Order:

NSC2487

Project Name:

Laurel Bay Housing Project

Project Number:

[none]

Received: 03/27/09 08:00

PROJECT QUALITY CONTROL DATA LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Selected Volatile Organic Compou	nds by EPA	Method 826	60B									
9034691-BSD1												
Benzene		49.8		ug/kg	50.0	100%	76 - 130	5	43	9034691		03/31/09 13:30
Ethylbenzene		54.6		ug/kg	50.0	109%	80 - 128	0.04	48	9034691		03/31/09 13:30
Naphthalene		55.8		ug/kg	50.0	112%	63 - 144	1	50	9034691		03/31/09 13:30
Toluene		51.3		ug/kg	50.0	103%	80 - 125	0.9	44	9034691		03/31/09 13:30
Xylenes, total		164		ug/kg	150	109%	79 - 130	0.2	48	9034691		03/31/09 13:30
Surrogate: 1,2-Dichloroethane-d4		49.7		ug/kg	50.0	99%	41 - 150			9034691		03/31/09 13:30
Surrogate: Dibromofluoromethane		49.1		ug/kg	50.0	98%	55 - 139			9034691		03/31/09 13:30
Surrogate: Toluene-d8		52.2		ug/kg	50.0	104%	57 - 148			9034691		03/31/09 13:30
Surrogate: 4-Bromofluorobenzene		51.8		ug/kg	50.0	104%	58 - 150			9034691		03/31/09 13:30
9040118-BSD1												
Benzene		51.2		ug/kg	50.0	102%	76 - 130	0.2	43	9040118		04/01/09 13:55
Ethylbenzene		53.3		ug/kg	50.0	107%	80 - 128	1	48	9040118		04/01/09 13:55
Naphthalene		54.4		ug/kg	50.0	109%	63 - 144	1	50	9040118		04/01/09 13:55
Toluene		50.0		ug/kg	50.0	100%	80 - 125	0.5	44	9040118		04/01/09 13:55
Xylenes, total		161		ug/kg	150	107%	79 - 130	0.8	48	9040118		04/01/09 13:55
Surrogate: 1,2-Dichloroethane-d4		49.6		ug/kg	50.0	99%	41 - 150			9040118		04/01/09 13:55
Surrogate: Dibromofluoromethane		49.3		ug/kg	50.0	99%	55 - 139			9040118		04/01/09 13:55
Surrogate: Toluene-d8		51.9		ug/kg	50.0	104%	57 - 148			9040118		04/01/09 13:55
Surrogate: 4-Bromofluorobenzene		52.0		ug/kg	50.0	104%	58 - 150			9040118		04/01/09 13:55



10179 Highway 78

Ladson, SC 29456 Tom McElwee

Attn

Work Order:

NSC2487

Project Name:

Laurel Bay Housing Project

Project Number:

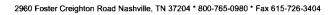
[none]

Received: 03/27/09 08:00

PROJECT QUALITY CONTROL DATA Matrix Spike

Marbane Marb					x Spike					
No. 1.54 mg/kg dry 2.10 73% 28.117 903424 NSC2487-02 0.358 Accessphithree ND 1.54 mg/kg dry 2.10 73% 28.113 903424 NSC2487-02 0.358 Accessphithree ND 1.67 mg/kg dry 2.10 80% 31-131 903424 NSC2487-02 0.358 Accessphithree ND 1.61 mg/kg dry 2.10 73% 29.124 903424 NSC2487-02 0.358 Benzo (a) phyrone ND 1.68 mg/kg dry 2.10 73% 29.124 903424 NSC2487-02 0.358 Benzo (a) phyrone ND 1.54 mg/kg dry 2.10 73% 20.128 903424 NSC2487-02 0.358 Benzo (a) phyrone ND 1.56 mg/kg dry 2.10 73% 20.128 903424 NSC2487-02 0.358 Benzo (a) phyrone ND 1.56 mg/kg dry 2.10 73% 20.139 903424 NSC2487-02 0.358 Benzo (a) phyrone ND 1.65 mg/kg dry 2.10 73% 20.139 903424 NSC2487-02 0.358 Benzo (a) phyrone ND 1.65 mg/kg dry 2.10 73% 20.139 903424 NSC2487-02 0.358 Benzo (a) phyrone ND 1.69 mg/kg dry 2.10 73% 20.139 903424 NSC2487-02 0.358 Debeza (a, h) anthracene ND 1.59 mg/kg dry 2.10 73% 20.139 903424 NSC2487-02 0.358 Debeza (a, h) anthracene ND 1.59 mg/kg dry 2.10 69% 23.132 903424 NSC2487-02 0.358 Debeza (a, h) anthracene ND 1.63 mg/kg dry 2.10 69% 23.132 903424 NSC2487-02 0.358 Debeza (a, h) anthracene ND 1.63 mg/kg dry 2.10 69% 23.132 903424 NSC2487-02 0.358 Debeza (a, h) anthracene ND 1.56 mg/kg dry 2.10 73% 20.132 903424 NSC2487-02 0.358 Debeza (a, h) anthracene ND 1.56 mg/kg dry 2.10 73% 20.132 903424 NSC2487-02 0.358 Debeza (a, h) anthracene ND 1.56 mg/kg dry 2.10 69% 21.130 903424 NSC2487-02 0.358 Debeza (a, h) anthracene ND 1.56 mg/kg dry 2.10 69% 21.130 903424 NSC2487-02 0.358 Debeza (a, h) anthracene ND 1.56 mg/kg dry 2.10 69% 21.130 903424 NSC2487-02 0.358 Debeza (a, h) anthracene ND 1.56 mg/kg dry 2.10 69% 21.130 903424 NSC248	Analyte	Orig. Val.	MS Val	Q U	nits Spike Cone	% Rec.	-	Batch	•	Analyzed Date/Time
No.	Polyaromatic Hydrocarbons by I	EPA 8270D								
Accompliny)seric ND 1.54 mg/kg dry 2.10 73% 33.113 9034242 NSC2487-02 0.33 Anthracene ND 1.67 mg/kg dry 2.10 80% 31.131 9034242 NSC2487-02 0.33 Benzo (a) privene ND 1.68 mg/kg dry 2.10 80% 31.131 9034242 NSC2487-02 0.33 Benzo (b) privene ND 1.68 mg/kg dry 2.10 80% 30.127 9034342 NSC2487-02 0.33 Benzo (b) fluoramthene ND 1.54 mg/kg dry 2.10 73% 26.128 9034242 NSC2487-02 0.33 Benzo (b) fluoramthene ND 1.56 mg/kg dry 2.10 74% 21.122 9034342 NSC2487-02 0.33 Benzo (b) fluoramthene ND 1.63 mg/kg dry 2.10 74% 21.122 9034342 NSC2487-02 0.33 Benzo (b) fluoramthene ND 1.63 mg/kg dry 2.10 74% 20.119 9034342 NSC2487-02 0.33 Benzo (b) fluoramthene ND 1.59 mg/kg dry 2.10 76% 27.122 9034342 NSC2487-02 0.33 Benzo (b) fluoramthene ND 1.59 mg/kg dry 2.10 76% 27.122 9034342 NSC2487-02 0.33 Benzo (b) fluoramthene ND 1.54 mg/kg dry 2.10 76% 27.122 9034242 NSC2487-02 0.33 Benzo (b) fluoramthene ND 1.54 mg/kg dry 2.10 76% 27.122 9034242 NSC2487-02 0.33 Benzo (b) fluoramthene ND 1.56 mg/kg dry 2.10 76% 24.122 9034242 NSC2487-02 0.33 Benzo (b) fluoramthene ND 1.56 mg/kg dry 2.10 77% 24.123 9034242 NSC2487-02 0.33 Benzo (b) fluoramthene ND 1.56 mg/kg dry 2.10 77% 24.123 9034242 NSC2487-02 0.33 Nsphthalene ND 1.56 mg/kg dry 2.10 77% 24.133 9034242 NSC2487-02 0.33 Nsphthalene ND 1.56 mg/kg dry 2.10 77% 24.133 9034242 NSC2487-02 0.33 Nsphthalene ND 1.56 mg/kg dry 2.10 77% 24.133 9034242 NSC2487-02 0.33 Nsphthalene ND 1.56 mg/kg dry 2.10 77% 24.133 9034242 NSC2487-02 0.33 Nsphthalene NSC2487-02										
Anthracene ND 1.67 mg/kg dry 2.10 80% 31-131 9034242 NSC2487-02 033 Benos (a) authracene ND 1.61 mg/kg dry 2.10 77% 39-124 9034242 NSC2487-02 033 Benos (a) pyrene ND 1.68 mg/kg dry 2.10 77% 39-124 9034242 NSC2487-02 033 Benos (b) pyrene ND 1.54 mg/kg dry 2.10 73% 40-128 9034424 NSC2487-02 033 Benos (g) hi) perylene ND 1.56 mg/kg dry 2.10 74% 21-122 9034242 NSC2487-02 033 Benos (g) hi) perylene ND 1.56 mg/kg dry 2.10 78% 20-130 903432 NSC2487-02 033 Benos (g) hi) perylene ND 1.63 mg/kg dry 2.10 78% 20-130 903432 NSC2487-02 033 Benos (g) hi) authracene ND 1.63 mg/kg dry 2.10 76% 27-122 903432 NSC2487-02 033 Benos (g) hi) authracene ND 1.63 mg/kg dry 2.10 76% 27-122 903432 NSC2487-02 033 Benos (g) hi) authracene ND 1.69 mg/kg dry 2.10 76% 27-122 903432 NSC2487-02 033 Fluoranthene ND 1.59 mg/kg dry 2.10 76% 27-122 903432 NSC2487-02 033 Benos (g) hi) authracene ND 1.54 mg/kg dry 2.10 76% 27-122 903432 NSC2487-02 033 Benos (g) hi) authracene ND 1.54 mg/kg dry 2.10 74% 38-110 903422 NSC2487-02 033 Benos (g) hi) authracene ND 1.63 mg/kg dry 2.10 74% 38-110 903422 NSC2487-02 033 Benos (g) hi) authracene ND 1.56 mg/kg dry 2.10 74% 24-122 903432 NSC2487-02 033 Benos (g) hi) authracene ND 1.56 mg/kg dry 2.10 74% 24-122 903422 NSC2487-02 033 Surrogate: Enhomolyhdryl 4 NSC2487-02 133 Mg/kg dry 2.10 66% 19-109 903422 NSC2487-02 033 Surrogate: Enhomolyhdryl 4 NSC2487-02 133 Mg/kg dry 2.10 66% 19-109 903422 NSC2487-02 033 Surrogate: Enhomolyhdryl 4 NSC2487-04 NSC248	Acenaphthene	ND	1.54	mg/l	kg dry 2.10	73%	28 - 117	9034242	NSC2487-02	03/30/09 13:38
Benzo (a) amtiracene ND 1.61 mg/kg dry 2.10 77% 29-124 903422 NSC2487-02 0334	Accnaphthylene	ND	1.54	mg/l	kg dry 2.10	73%	33 - 113	9034242	NSC2487-02	03/30/09 13:38
Benzo (a) pyrene ND 1.68 mg/kg dry 2.10 80% 30 - 127 9034242 NSC2487-02 0334 Benzo (b) fluoranthene ND 1.54 mg/kg dry 2.10 73% 26 - 128 9034242 NSC2487-02 0334 Benzo (g, h.i) perylene ND 1.56 mg/kg dry 2.10 74% 21 - 122 9034242 NSC2487-02 0334 Benzo (g, h.i) perylene ND 1.65 mg/kg dry 2.10 74% 21 - 122 9034242 NSC2487-02 0334 Chrysene ND 1.63 mg/kg dry 2.10 77% 30 - 119 9034242 NSC2487-02 0334 Chrysene ND 1.63 mg/kg dry 2.10 77% 30 - 119 9034242 NSC2487-02 0334 Bluoranthene 0.0427 1.49 mg/kg dry 2.10 69% 23 - 132 9034242 NSC2487-02 0334 Bluoreno (1.23-ed) pyrene ND 1.63 mg/kg dry 2.10 69% 23 - 132 9034242 NSC2487-02 0334 Bluoreno (1.23-ed) pyrene ND 1.63 mg/kg dry 2.10 77% 24 - 122 9034242 NSC2487-02 0334 Bluoranthene ND 1.56 mg/kg dry 2.10 77% 24 - 122 9034242 NSC2487-02 0334 Bluoranthene ND 1.56 mg/kg dry 2.10 77% 24 - 122 9034242 NSC2487-02 0334 Plenanthrene ND 1.56 mg/kg dry 2.10 74% 21 - 130 9034242 NSC2487-02 0334 Surrogate: Terphenyl-d14 1.56 mg/kg dry 2.10 74% 24 - 133 9034242 NSC2487-02 0334 Surrogate: Terphenyl-d14 1.56 mg/kg dry 2.10 74% 24 - 133 9034242 NSC2487-02 0334 Surrogate: Terphenyl-d14 1.56 mg/kg dry 2.10 74% 24 - 123 9034242 NSC2487-02 0334 Surrogate: Terphenyl-d14 1.56 mg/kg dry 2.10 56% 22 - 104 9034242 NSC2487-02 0334 Surrogate: Terphenyl-d14 1.58 mg/kg dry 2.10 56% 22 - 104 9034242 NSC2487-02 0334 Surrogate: Terphenyl-d14 1.58 mg/kg dry 2.10 56% 22 - 104 9034242 NSC2487-02 0334 Surrogate: Terphenyl-d14 1.56 mg/kg dry 2.10 56% 22 - 104 9034242 NSC2487-02 0334 Surrogate: Terphenyl-d14 1.58 mg/kg dry 2.10 56% 22 - 104 9034242 NSC2487-04 0334 Surrogate: Terphenyl-d14 1.5	Anthracene	ND	1.67	mg/l	kg dry 2.10	80%	31 - 131	9034242	NSC2487-02	03/30/09 13:38
Benzo (b) fluoranthene	Benzo (a) anthracene	ND	1.61	mg/l	cg dry 2.10	77%	29 - 124	9034242	NSC2487-02	03/30/09 13:38
Benzo (g,h.i) perylene	Benzo (a) pyrene	ND	1.68	mg/l	kg dry 2.10	80%	30 - 127	9034242	NSC2487-02	03/30/09 13:38
Benzo (k) fluoranthene ND 1.65 mg/kg dry 2.10 78% 20 - 130 9034242 NSC2487-02 0373 Chrysene ND 1.63 mg/kg dry 2.10 77% 30 - 119 9034242 NSC2487-02 0373 Dibanz (ah) anthracene ND 1.59 mg/kg dry 2.10 76% 27 - 122 9034242 NSC2487-02 0373 Fluoranthene 0.0427 1.49 mg/kg dry 2.10 69% 23 - 132 9034242 NSC2487-02 0373 Indeno (1.2.3-ed) pyrene ND 1.54 mg/kg dry 2.10 77% 38 - 110 9034242 NSC2487-02 0373 Indeno (1.2.3-ed) pyrene ND 1.63 mg/kg dry 2.10 77% 24 - 122 9034242 NSC2487-02 0373 Indeno (1.2.3-ed) pyrene ND 1.30 mg/kg dry 2.10 77% 24 - 122 9034242 NSC2487-02 0373 Phenanthene ND 1.56 mg/kg dry 2.10 74% 31 - 130 9034242 NSC2487-02 0373 Pyrene 0.0522 1.81 mg/kg dry 2.10 74% 21 - 130 9034242 NSC2487-02 0373 Surrogate: Terphenyl-d14 1.56 mg/kg dry 2.10 74% 26 - 128 9034242 NSC2487-02 0373 Surrogate: Altrobenzene-d3 1.17 mg/kg dry 2.10 66% 19 - 109 9034242 NSC2487-02 0373 Surrogate: Nitrobenzene-d3 1.17 mg/kg dry 2.10 66% 19 - 109 9034242 NSC2487-02 0373 Selected Volatile Organic Compounds by EPA Method 82608 1.17 mg/kg dry 2.10 66% 19 - 109 9034242 NSC2487-02 0373 Surrogate: Nitrobenzene-d3 1.17 mg/kg dry 3.15 104% 33 - 146 9034691 NSC2487-04Re 0373 Surrogate: Nitrobenzene-d3 1.64 4.92 mg/kg dry 3.15 104% 16 - 160 9034691 NSC2487-04Re 0373 Naphthalene 1.64 4.92 mg/kg dry 3.15 104% 16 - 160 9034691 NSC2487-04Re 0373 Surrogate: L2-Dichloroethane-d4 52.5 ug/kg 50.0 105% 41 - 150 9034691 NSC2487-04Re 0373 Surrogate: Dichromefluoromethane 50.2 ug/kg 50.0 105% 57 - 139 9034691 NSC2487-04Re 0373 Surrogate: Dichromefluoromethane 50.2 ug/kg 50.0 105% 57 - 139 9034691 NSC2487-04Re 0373 Surrogate: Toluene-d8 50.3 ug/kg 50.0 1	Benzo (b) fluoranthene	ND	1.54	mg/l	g dry 2.10	73%	26 - 128	9034242	NSC2487-02	03/30/09 13:38
Chrysene ND 1.63 mg/kg dry 2.10 77% 30 - 119 9034242 NSC2487-02 0330 Dibenz (a,h) anthracene ND 1.59 mg/kg dry 2.10 76% 27 - 122 9034242 NSC2487-02 0330 Fluoranthene 0.0427 1.49 mg/kg dry 2.10 69% 23 - 132 9034242 NSC2487-02 0330 Fluoranthene ND 1.54 mg/kg dry 2.10 69% 23 - 132 9034242 NSC2487-02 0330 Fluorane ND 1.54 mg/kg dry 2.10 69% 23 - 132 9034242 NSC2487-02 0330 Naphthalene ND 1.50 mg/kg dry 2.10 62% 14 - 117 9034242 NSC2487-02 0330 Naphthalene ND 1.30 mg/kg dry 2.10 62% 14 - 117 9034242 NSC2487-02 0330 Naphthalene ND 1.56 mg/kg dry 2.10 64% 24 - 133 9034242 NSC2487-02 0330 Naphthalene ND 1.56 mg/kg dry 2.10 84% 24 - 133 9034242 NSC2487-02 0330 Natrogate: Terphenyl-d14 1.56 mg/kg dry 2.10 64% 24 - 133 9034242 NSC2487-02 0330 Surrogate: Elivorobiphenyl 1.38 mg/kg dry 2.10 66% 19 - 109 9034242 NSC2487-02 0330 Surrogate: Nitrobenzene-d5 1.17 mg/kg dry 2.10 66% 19 - 109 9034242 NSC2487-02 0330 Selected Volatile Organic Compounds by EPA Method 8260B 8034691 NSC2487-04 0330 Selected Volatile Organic Compounds by EPA Method 8260B 8034691 NSC2487-04 0330 Selected Volatile Organic Compounds by EPA Method 8260B 1.17 mg/kg dry 3.15 104% 16 - 160 9034691 NSC2487-04 0330 Naphthalene 1.64 4.92 mg/kg dry 3.15 104% 16 - 160 9034691 NSC2487-04Re 0330 Naphthalene 13.5 16.0 mg/kg dry 3.15 97% 10 - 151 9034691 NSC2487-04Re 0330 Naphthalene 13.5 16.0 mg/kg dry 3.15 97% 30 - 145 9034691 NSC2487-04Re 0330 Naphthalene 1.64 4.92 mg/kg dry 3.15 97% 30 - 145 9034691 NSC2487-04Re 0330 Naphthalene 1.60 mg/kg dry 3.15 104% 16 - 160 9034691 NSC2487-04Re 0330 Naphthalene 1.60 mg/kg dry 3.15 104% 16 - 159 9034691 NSC2487-0	Benzo (g,h,i) perylene	ND	1.56	mg/l	kg dry 2.10	74%	21 - 122	9034242	NSC2487-02	03/30/09 13:38
Dibenz (a,h) anthracene ND 1.59 mg/kg dry 2.10 76% 27-122 9034242 NSC2487-02 03/30	Benzo (k) fluoranthene	ND	1.65	mg/l	kg dry 2.10	78%	20 - 130	9034242	NSC2487-02	03/30/09 13:38
Fluoranthene 0.0427 1.49 mg/kg dry 2.10 69% 23 - 132 9034242 NSC2487-02 03/36 Fluorene ND 1.54 mg/kg dry 2.10 74% 38 - 110 9034242 NSC2487-02 03/36 Indeno (1,2,3 - cd) pyrene ND 1.63 mg/kg dry 2.10 77% 24 - 122 9034242 NSC2487-02 03/36 Naphthalene ND 1.30 mg/kg dry 2.10 62% 14 - 117 9034242 NSC2487-02 03/36 Naphthalene ND 1.56 mg/kg dry 2.10 62% 14 - 117 9034242 NSC2487-02 03/36 Phenanthrene ND 1.56 mg/kg dry 2.10 74% 21 - 130 9034242 NSC2487-02 03/36 Naphthalene ND 1.56 mg/kg dry 2.10 84% 24 - 133 9034242 NSC2487-02 03/36 Narrogate: Terphenyl-d14 1.55 mg/kg dry 2.10 84% 24 - 133 9034242 NSC2487-02 03/36 Narrogate: Terphenyl-d14 1.56 mg/kg dry 2.10 66% 19 - 109 9034242 NSC2487-02 03/36 Narrogate: Phonorbiphenyl 1.38 mg/kg dry 2.10 66% 19 - 109 9034242 NSC2487-02 03/36 Narrogate: Nitrobenzene-d5 1.17 mg/kg dry 2.10 56% 22 - 104 9034242 NSC2487-02 03/36 Narrogate: Nitrobenzene-d5 1.17 mg/kg dry 2.10 56% 22 - 104 9034242 NSC2487-02 03/36 Narrogate: Nitrobenzene-d5 1.17 mg/kg dry 2.10 56% 22 - 104 9034242 NSC2487-02 03/36 Narrogate: Nitrobenzene-d5 1.17 mg/kg dry 3.15 104% 33 - 146 9034691 NSC2487-04 D3/36 Narrogate: Nitrobenzene-d5 1.64 4.92 mg/kg dry 3.15 104% 16 - 160 9034691 NSC2487-04RE 03/36 Narrogate: Nitrobenzene 1.64 4.92 mg/kg dry 3.15 104% 16 - 160 9034691 NSC2487-04RE 03/36 Narrogate: Nitrobenzene 1.54 Narrogate: Nitrobenzene 1.55 Narrogate: Nitrobenzene 1.55 Narrogate: Nitrobenzene-d4 1.55 Narrogate: Nitrobenzene-d4 1.55 Narrogate: Nitrobenzene-d4 1.56 Narrogate: Nitrobenzene-d4 1.56 Narrogate: Nitrobenzene-d4 1.56 Narrogate: Nitrobenzene-d8 1.50 Narrogate: Nitrobenzene-d8 1.50 Narrogate: Nar	Chrysene	ND	1.63	mg/l	kg dry 2.10	77%	30 - 119	9034242	NSC2487-02	03/30/09 13:38
Fluorenc ND 1.54 mg/kg dry 2.10 74% 38-110 9034242 NSC2487-02 03/30 Indeno (1,2,3-ed) pyrenc ND 1.63 mg/kg dry 2.10 77% 24-122 9034242 NSC2487-02 03/30 Naphthalene ND 1.30 mg/kg dry 2.10 62% 14-117 9034242 NSC2487-02 03/30 Phenanthrenc ND 1.56 mg/kg dry 2.10 74% 21-130 9034242 NSC2487-02 03/30 Pyrene 0.0522 1.81 mg/kg dry 2.10 84% 24-133 9034242 NSC2487-02 03/30 Surrogate: Terphenyl-d14 1.56 mg/kg dry 2.10 84% 24-133 9034242 NSC2487-02 03/30 Surrogate: Pythurobiphenyl 1.38 mg/kg dry 2.10 66% 19-109 9034242 NSC2487-02 03/30 Surrogate: Pythurobiphenyl 1.38 mg/kg dry 2.10 66% 19-109 9034242 NSC2487-02 03/30 Surrogate: Pythurobiphenyl 1.38 mg/kg dry 2.10 66% 19-109 9034242 NSC2487-02 03/30 Surrogate: Pythurobiphenyl 1.38 mg/kg dry 2.10 66% 19-109 9034242 NSC2487-02 03/30 Surrogate: Pythurobiphenyl 1.38 mg/kg dry 2.10 66% 19-109 9034242 NSC2487-02 03/30 Surrogate: Pythurobiphenyl 1.38 mg/kg dry 2.10 66% 19-109 9034242 NSC2487-02 03/30 Surrogate: Pythurobiphenyl 1.38 mg/kg dry 3.15 104% 33-146 903424 NSC2487-02 03/30 Surrogate: Pythurobiphenyl 1.38 mg/kg dry 3.15 104% 16-160 9034691 NSC2487-04RE 03/30 Surrogate: Pythurobiphenyl 1.38 1.38 mg/kg dry 3.15 104% 16-160 9034691 NSC2487-04RE 03/30 Surrogate: Pythurobiphenyl 1.38 1.38 1.38 1.38 1.38 1.38 1.38 1.38	Dibenz (a,h) anthracene	ND	1.59	mg/l	kg dry 2.10	76%	27 - 122	9034242	NSC2487-02	03/30/09 13:38
Indeno (1,2,3-ed) pyrene ND 1,63 mg/kg dry 2,10 77% 24 - 122 9034242 NSC2487-02 03/30 Naphthalene ND 1,30 mg/kg dry 2,10 62% 14 - 117 9034242 NSC2487-02 03/30 Phenanthrene ND 1,56 mg/kg dry 2,10 62% 14 - 117 9034242 NSC2487-02 03/30 Pyrene 0,0522 1,81 mg/kg dry 2,10 84% 24 - 133 9034242 NSC2487-02 03/30 Surrogate: Terphemyl-d14 1,56 mg/kg dry 2,10 66% 19 - 109 9034242 NSC2487-02 03/30 Surrogate: Fluorohiphemyl 1,38 mg/kg dry 2,10 66% 19 - 109 9034242 NSC2487-02 03/30 Surrogate: Nitrohenzene-d5 1,17 mg/kg dry 2,10 66% 19 - 109 9034242 NSC2487-02 03/30 Selected Volatile Organic Compounds by EPA Method 8260B 9034691-MS1 Benzene ND 3,27 mg/kg dry 3,15 104% 33 - 146 9034691 NSC2487-04RE 03/30 Ethylbenzene 1,64 4,92 mg/kg dry 3,15 104% 16 - 160 9034691 NSC2487-04RE 03/30 Naphthalene 13,5 16.0 mg/kg dry 3,15 79% 10 - 151 9034691 NSC2487-04RE 03/30 Naphthalene ND 3,06 mg/kg dry 3,15 79% 10 - 151 9034691 NSC2487-04RE 03/30 Naphthalene 1,84 11.6 mg/kg dry 9,44 104% 16 - 159 9034691 NSC2487-04RE 03/30 NSC2487-04RE 03/30 NSC2487-04RE 03/30 NSC2487-04RE 03/30 NSC2487-04RE 03/30 NSC2487-04RE 03/30 NSC2487-04RE 03/30 NSC2487-04RE 03/30 NSC2487-04RE 03/30 NSC2487-04RE 03/30 NSC2487-04RE 03/30 NSC2487-04RE 03/30 NSC2487-04RE 03/30 NSC2487-04RE 03/30 NSC2487-04RE 03/30 NSC2487-04RE 03/30 NSC2487-04RE 03/30 NSC2487-04RE 03/30 NSC2487-04RE 03/30 NSC2487-04RE 03/30 NSC2487-04RE 03/30 NSC2487-04RE 03/30 NSC2487-04RE 03/30 NSC2487-04RE 03/30 NSC2487-04RE 03/30 NSC2487-04RE 03/30 N	Fluoranthene	0.0427	1.49	mg/l	g dry 2.10	69%	23 - 132	9034242	NSC2487-02	03/30/09 13:38
Naphthalene ND 1.30 mg/kg dry 2.10 62% 14 - 117 9034242 NSC2487-02 03/30	Fluorene	ND	1.54	mg/l	g dry 2.10	74%	38 - 110	9034242	NSC2487-02	03/30/09 13:38
Phenanthrone ND 1.56 mg/kg dry 2.10 74% 21-130 903424 NSC2487-02 03/30	Indeno (1,2,3-cd) pyrene	ND	1.63	mg/l	kg dry 2.10	77%	24 - 122	9034242	NSC2487-02	03/30/09 13:38
Pyrene 0.0522 1.81 mg/kg dry 2.10 84% 24 - 133 9034242 NSC2487-02 03/36	Naphthalene	ND	1.30	mg/l	kg dry 2.10	62%	14 - 117	9034242	NSC2487-02	03/30/09 13:38
Surrogate: Terphenyl-d14	Phenanthrene	ND	1.56	mg/l	kg dry 2.10	74%	21 - 130	9034242	NSC2487-02	03/30/09 13:38
Surrogate: 2-Fluorobiphenyl 1.38 mg/kg dry 2.10 66% 19 - 109 9034242 NSC2487-02 03/36 Surrogate: Nitrobenzene-d5 1.17 mg/kg dry 2.10 56% 22 - 104 9034242 NSC2487-02 03/36 Selected Volatile Organic Compounds by EPA Method 8260B 9034691-MS1 Benzene ND 3.27 mg/kg dry 3.15 104% 33 - 146 9034691 NSC2487-04RE 03/31 Ethylbenzene 1.64 4.92 mg/kg dry 3.15 104% 16 - 160 9034691 NSC2487-04RE 03/31 Naphthalene 13.5 16.0 mg/kg dry 3.15 79% 10 - 151 9034691 NSC2487-04RE 03/31 Toluene ND 3.06 mg/kg dry 3.15 97% 30 - 145 9034691 NSC2487-04RE 03/31 Xylenes, total 1.84 11.6 mg/kg dry 9.44 104% 16 - 159 9034691 NSC2487-04RE 03/31 Surrogate: Dibromof	Pyrene	0.0522	1.81	mg/l	kg dry 2.10	84%	24 - 133	9034242	NSC2487-02	03/30/09 13:38
Surrogate: Nitrobenzene-d5 1.17 mg/kg dry 2.10 56% 22 - 104 9034242 NSC2487-02 03/30	Surrogate: Terphenyl-d14		1.56	mg/l	ag dry 2.10	74%	26 - 128	9034242	NSC2487-02	03/30/09 13:38
Selected Volatile Organic Compounds by EPA Method 8260B	Surrogate: 2-Fluorobiphenyl		1.38	mg/l	ag dry 2.10	66%	19 - 109	9034242	NSC2487-02	03/30/09 13:38
9034691-MS1 Benzenc ND 3.27 mg/kg dry 3.15 104% 33 - 146 9034691 NSC2487-04RE 03/3 Ethylbenzene 1.64 4.92 mg/kg dry 3.15 104% 16 - 160 9034691 NSC2487-04RE 03/3 Naphthalene 13.5 16.0 mg/kg dry 3.15 79% 10 - 151 9034691 NSC2487-04RE 03/3 1 Toluene ND 3.06 mg/kg dry 3.15 97% 30 - 145 9034691 NSC2487-04RE 03/3 1 Xylenes, total 1.84 11.6 mg/kg dry 9.44 104% 16 - 159 9034691 NSC2487-04RE 03/3 1 Surrogate: 1.2-Dichloroethane-d4 52.5 ug/kg 50.0 105% 41 - 150 9034691 NSC2487-04RE 03/3 1 Surrogate: Dibromofluoromethane 50.2 ug/kg 50.0 100% 55 - 139 9034691 NSC2487-04RE 03/3 1 Surrogate: Toluene-d8 50.3 ug/kg 50.0 101% 57 - 148 9034691 NSC2487-04RE 03/3 1	Surrogate: Nitrobenzene-d5		1.17	mg/l	ag dry 2.10	56%	22 - 104	9034242	NSC2487-02	03/30/09 13:38
Benzenc ND 3.27 mg/kg dry 3.15 104% 33 - 146 9034691 NSC2487-04RE 03/3 1 1 1 1 1 1 1 1 1	•	ounds by EPA Me	thod 8260B							
Ethylbenzene 1.64 4.92 mg/kg dry 3.15 104% 16 - 160 9034691 NSC2487-04RE 03/31 Naphthalene 13.5 16.0 mg/kg dry 3.15 79% 10 - 151 9034691 NSC2487-04RE 03/31 Toluene ND 3.06 mg/kg dry 3.15 97% 30 - 145 9034691 NSC2487-04RE 03/31 Xylenes, total 1.84 11.6 mg/kg dry 9.44 104% 16 - 159 9034691 NSC2487-04RE 03/31 Surrogate: 1,2-Dichloroethane-d4 52.5 ug/kg 50.0 105% 41 - 150 9034691 NSC2487-04RE 03/31 Surrogate: Dibromofluoromethane 50.2 ug/kg 50.0 100% 55 - 139 9034691 NSC2487-04RE 03/31 Surrogate: Toluene-d8 50.3 ug/kg 50.0 101% 57 - 148 9034691 NSC2487-04RE 03/31		ND	3 27	ma/l	radny 3.15	104%	33 146	0034601	NECOMOT DADE	03/31/09 22:41
Naphthalene 13.5 16.0 mg/kg dry 3.15 79% 10 - 151 9034691 NSC2487-04RE 03/31 Toluene ND 3.06 mg/kg dry 3.15 97% 30 - 145 9034691 NSC2487-04RE 03/31 Xylenes, total 1.84 11.6 mg/kg dry 9.44 104% 16 - 159 9034691 NSC2487-04RE 03/31 Surrogate: 1.2-Dichloroethane-d4 52.5 ug/kg 50.0 105% 41 - 150 9034691 NSC2487-04RE 03/31 Surrogate: Dibromofluoromethane 50.2 ug/kg 50.0 100% 55 - 139 9034691 NSC2487-04RE 03/31 Surrogate: Toluene-d8 50.3 ug/kg 50.0 101% 57 - 148 9034691 NSC2487-04RE 03/31	Benzene	ND	3.27	ing r	.gury 5.15	10478	33 - 140	7034071	NSC2487-04RE	03/31/09 22.41
Toluene ND 3.06 mg/kg dry 3.15 97% 30 - 145 9034691 NSC2487-04RE 03/31 Xylenes, total 1.84 11.6 mg/kg dry 9.44 104% 16 - 159 9034691 NSC2487-04RE 03/31 Surrogate: 1.2-Dichloroethane-d4 52.5 ug/kg 50.0 105% 41 - 150 9034691 NSC2487-04RE 03/31 Surrogate: Dibromofluoromethane 50.2 ug/kg 50.0 100% 55 - 139 9034691 NSC2487-04RE 03/31 Surrogate: Toluene-d8 50.3 ug/kg 50.0 101% 57 - 148 9034691 NSC2487-04RE 03/31	Ethylbenzene	1.64	4.92	mg/l	ag dry 3.15	104%	16 - 160	9034691	NSC2487-04RE	03/31/09 22:41
Xylcnes, total 1.84 11.6 mg/kg dry 9.44 104% 16 - 159 9034691 NSC2487-04RE 03/3 1 Surrogate: 1.2-Dichloroethane-d4 52.5 ug/kg 50.0 105% 41 - 150 9034691 NSC2487-04RE 03/3 1 Surrogate: Dibromofluoromethane 50.2 ug/kg 50.0 100% 55 - 139 9034691 NSC2487-04RE 03/3 1 Surrogate: Toluene-d8 50.3 ug/kg 50.0 101% 57 - 148 9034691 NSC2487-04RE 03/3 1	Naphthalene	13.5	16.0	mg/l	ig dry 3.15	79%	10 - 151	9034691	NSC2487-04RE	03/31/09 22:41
Surrogate: 1,2-Dichloroethane-d4 52.5 ug/kg 50.0 105% 41 - 150 9034691 NSC2487-04RE 03/31 Surrogate: Dibromofluoromethane 50.2 ug/kg 50.0 100% 55 - 139 9034691 NSC2487-04RE 03/31 Surrogate: Toluene-d8 50.3 ug/kg 50.0 101% 57 - 148 9034691 NSC2487-04RE 03/31	Tolucne	ND	3.06	mg/k	ag dry 3.15	97%	30 - 145	9034691	1 NSC2487-04RE	03/31/09 22:41
Surrogate: Dibromofluoromethane 50.2 ug/kg 50.0 100% 55 - 139 9034691 NSC2487-04RE 03/31 Surrogate: Toluene-d8 50.3 ug/kg 50.0 101% 57 - 148 9034691 NSC2487-04RE 03/31	Xylenes, total	1.84	11.6	mg/l	g dry 9.44	104%	16 - 159	9034691	l NSC2487-04RE	03/31/09 22:41
Surrogate: Dibromofluoromethane 50.2 ug/kg 50.0 100% 55 - 139 9034691 NSC2487-04RE 03/31 Surrogate: Toluene-d8 50.3 ug/kg 50.0 101% 57 - 148 9034691 NSC2487-04RE 03/31 1 1 1 1 1 1 1	Surrogate: 1,2-Dichloroethane-d4		52.5	ug	/kg 50.0	105%	41 - 150	9034691	l NSC2487-04RE	03/31/09 22:41
1	Surrogate: Dibromofluoromethane		50.2	ug	/kg 50.0	100%	55 - 139	9034691	•	03/31/09 22:41
Surrogate: 4-Bromofluorobenzene 55.4 ug/kg 50.0 111% 58 - 150 9034691 NSC2487-04RE 03/31	Surrogate: Toluene-d8		50.3	ug	/kg 50.0	101%	57 - 148	9034691	1 NSC2487-04RE	03/31/09 22:41
	Surrogate: 4-Bromofluorobenzene		55.4	ug	⁄kg 50.0	111%	58 - 150	9034691	1 NSC2487-04RE	03/31/09 22:41

9040118-MS1





Attn

Client EEG - Env. Enterprise Group (2449)

10179 Highway 78

Ladson, SC 29456 Tom McElwee

Work Order:

NSC2487

Project Name:

Laurel Bay Housing Project

Project Number:

[none]

Received:

03/27/09 08:00

PROJECT QUALITY CONTROL DATA Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Selected Volatile Organic Compo	ounds by EPA Me	thod 8260B								
9040118-MS1										
Benzene	ND	1.83		mg/kg wet	2.40	76%	33 - 146	9040118	NSD0038-01RE 1	04/01/09 23:09
Ethylbenzene	4.21	6.19		mg/kg wet	2.40	83%	16 - 160	9040118	NSD0038-01RE 1	04/01/09 23:09
Naphthalene	4.41	5.08		mg/kg wet	2.40	28%	10 - 151	9040118	NSD0038-01RE I	04/01/09 23:09
Toluene	1.24	3.02		mg/kg wet	2.40	74%	30 - 145	9040118	NSD0038-01RE 1	04/01/09 23:09
Xylenes, total	25.3	30.8		mg/kg wet	7.20	75%	16 - 159	9040118	NSD0038-01RE 1	04/01/09 23:09
Surrogate: 1,2-Dichloroethane-d4		47.0		ug/kg	50.0	94%	41 - 150	9040118	NSD0038-01RE 1	04/01/09 23:09
Surrogate: Dibromofluoromethane		46.8		ug/kg	50.0	94%	55 - 139	9040118	NSD0038-01RE	04/01/09 23:09
Surrogate: Toluene-d8		50.3		ug/kg	50.0	101%	57 - 148	9040118	NSD0038-01RE 1	04/01/09 23:09
Surrogate: 4-Bromofluorobenzene		57.1		ug/kg	50.0	114%	58 - 150	9040118	NSD0038-01RE	04/01/09 23:09



10179 Highway 78 Ladson, SC 29456

Attn Tom McElwee

Work Order:

NSC2487

Project Name:

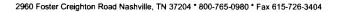
Laurel Bay Housing Project

Project Number: Received: [none] 03/27/09 08:00

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Polyaromatic Hydrocarbons by	EPA 8270D											
9034242-MSD1												
Acenaphthene	ND	1.30		mg/kg dry	2.12	61%	28 - 117	17	33	9034242	NSC2487-02	03/30/09 14:01
Acenaphthylene	ND	1.29		mg/kg dry	2.12	61%	33 - 113	18	38	9034242	NSC2487-02	03/30/09 14:01
Anthracene	ND	1.45		mg/kg dry	2.12	69%	31 - 131	14	32	9034242	NSC2487-02	03/30/09 14:01
Benzo (a) anthracene	ND	1.35		mg/kg dry	2.12	64%	29 - 124	17	26	9034242	NSC2487-02	03/30/09 14:01
Benzo (a) pyrene	ND	1.38		mg/kg dry	2.12	65%	30 - 127	19	31	9034242	NSC2487-02	03/30/09 14:01
Benzo (b) fluoranthene	ND	1.47		mg/kg dry	2.12	69%	26 - 128	4	37	9034242	NSC2487-02	03/30/09 14:01
Benzo (g,h,i) perylene	ND	1.33		mg/kg dry	2.12	63%	21 - 122	16	28	9034242	NSC2487-02	03/30/09 14:01
Benzo (k) fluoranthene	ND	1.24		mg/kg dry	2.12	58%	20 - 130	28	35	9034242	NSC2487-02	03/30/09 14:01
Chrysene	ND	1.34		mg/kg dry	2.12	63%	30 - 119	19	31	9034242	NSC2487-02	03/30/09 14:01
Dibenz (a,h) anthracene	ND	1.33		mg/kg dry	2.12	63%	27 - 122	18	32	9034242	NSC2487-02	03/30/09 14:01
Fluoranthene	0.0427	1.31		mg/kg dry	2.12	60%	23 - 132	13	36	9034242	NSC2487-02	03/30/09 14:01
Fluorene	ND	1.30		mg/kg dry	2.12	61%	38 - 110	17	35	9034242	NSC2487-02	03/30/09 14:01
Indeno (1,2,3-ed) pyrene	ND	1.33		mg/kg dry	2.12	63%	24 - 122	20	28	9034242	NSC2487-02	03/30/09 14:01
Naphthalene	ND	1.12		mg/kg dry	2.12	53%	14 - 117	15	34	9034242	NSC2487-02	03/30/09 14:01
Phenanthrene	ND	1.34		mg/kg dry	2.12	63%	21 - 130	15	33	9034242	NSC2487-02	03/30/09 14:01
Pyrene	0.0522	1.51		mg/kg dry	2.12	69%	24 - 133	18	36	9034242	NSC2487-02	03/30/09 14:01
Surrogate: Terphenyl-d14		1.27		mg/kg dry	2.12	60%	26 - 128			9034242	NSC2487-02	03/30/09 14:01
Surrogate: 2-Fluorobiphenyl		1.16		mg/kg dry	2.12	55%	19 - 109			9034242	NSC2487-02	03/30/09 14:01
Surrogate: Nitrobenzene-d5		1.05		mg/kg dry	2.12	49%	22 - 104			9034242	NSC2487-02	03/30/09 14:01
Selected Volatile Organic Comp 9034691-MSD1	ounds by EPA	Method 82	60B									
Benzene	ND	3.52		mg/kg dry	3.15	112%	33 - 146	7	43	9034691	NSC2487-04RE	03/31/09 23:11
Ethylbenzene	1.64	5.13		mg/kg dry	3.15	111%	16 - 160	4	48	9034691	NSC2487-04RE 1	03/31/09 23:11
Naphthalene	13.5	16.0		mg/kg dry	3.15	78%	10 - 151	0.1	50	9034691	NSC2487-04RE 1	03/31/09 23:11
Tolucne	ND	3.29		mg/kg dry	3.15	104%	30 - 145	7	44	9034691	NSC2487-04RE 1	03/31/09 23:11
Xylenes, total	1.84	12.2		mg/kg dry	9.44	110%	16 - 159	5	48	9034691	NSC2487-04RE 1	03/31/09 23:11
Surrogate: 1,2-Dichloroethane-d4		51.2		ug/kg	50.0	102%	41 - 150			9034691	NSC2487-04RE 1	03/31/09 23:11
Surrogate: Dibromofluoromethane		49.2		ug/kg	50.0	98%	55 - 139			9034691	NSC2487-04RE 1	03/31/09 23:11
Surrogate: Toluene-d8		50.7		ug/kg	50.0	101%	57 - 148			9034691	NSC2487-04RE 1	03/31/09 23:11
Surrogate: 4-Bromofluorobenzene		56.6		ug/kg	50.0	113%	58 - 150			9034691	NSC2487-04RE 1	03/31/09 23:11
9040118-MSD1 Benzene	ND	1.74		malka wat	2.40	73%	33 - 146	5	43	9040118	NCD0029 01B	04/01/09 23:39
Benzene	ND	1./4		mg/kg wet	2.70	13/0	22 × 140	3	73	70-10110	NSD0038-01R E1	VTIVI107 43.39
Ethylbenzene	4.21	6.11		mg/kg wet	2.40	80%	16 - 160	1	48	9040118	NSD0038-01R E1	04/01/09 23:39





10179 Highway 78

Ladson, SC 29456 Tom McElwee

Attn

Work Order:

NSC2487

Project Name:

Laurel Bay Housing Project

Project Number:

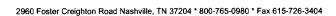
[none]

Received:

03/27/09 08:00

PROJECT QUALITY CONTROL DATA Matrix Spike Dup - Cont.

Analyte	Orig, Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Selected Volatile Organic Compo 9040118-MSD1	ounds by EPA	Method 820	50B									
Naphthalene	4.41	5.09		mg/kg wet	2.40	28%	10 - 151	0.3	50	9040118	NSD0038-01R E1	04/01/09 23:39
Toluene	1.24	2.96		mg/kg wet	2.40	72%	30 - 145	2	44	9040118	NSD0038-01R E1	04/01/09 23:39
Xylenes, total	25.3	30.0		mg/kg wet	7.20	65%	16 - 159	2	48	9040118	NSD0038-01R E1	04/01/09 23:39
Surrogate: 1,2-Dichloroethane-d4		48.5		ug/kg	50.0	97%	41 - 150			9040118	NSD0038-01R E1	04/01/09 23:39
Surrogate: Dibromofluoromethane		46.8		ug/kg	50.0	94%	55 - 139			9040118	NSD0038-01R E1	04/01/09 23:39
Surrogate: Toluene-d8		50.3		ug/kg	50.0	101%	57 - 148			9040118	NSD0038-01R EI	04/01/09 23:39
Surrogate: 4-Bromofluorobenzene		58.0		ug/kg	50.0	116%	58 - 150			9040118	NSD0038-01R E1	04/01/09 23:39





EEG - Env. Enterprise Group (2449) Client

10179 Highway 78

Ladson, SC 29456

Tom McElwee

Work Order:

NSC2487

Project Name:

Laurel Bay Housing Project

Project Number:

[none]

03/27/09 08:00 Received:

CERTIFICATION SUMMARY

TestAmerica Nashville

Attn

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



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

EEG - Env. Enterprise Group (2449)

10179 Highway 78

Ladson, SC 29456 Tom McElwee

Attn

ND

Work Order:

NSC2487

Project Name:

Laurel Bay Housing Project

Project Number:

[none]

Received:

03/27/09 08:00

DATA QUALIFIERS AND DEFINITIONS

Due to sample matrix effects, the surrogate recovery was outside the acceptance limits. $\mathbf{Z}\mathbf{X}$

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

METHOD MODIFICATION NOTES

THE LEADER IN ENVIRONMENTAL TES	TING Nash	rille Divi Foster C rille, TN	reight	on			Т	oli F	one: ree: Fax:	600-7	765-0	980)						met		s this v	ing the work be es?						
Client Name/Account #: EEG #													-,		_							Comp	liance	Monit	oring?		Yes_	 No
Address: 10179															_							Enfo	orceme	ent Act	ion?		Yes_	 No
City/State/Zip: Ladsor											_						Site	State	: <u>SC</u>									
Project Manager: Tom M		celwee@	eeginc	.net				O.	71-	-	87	74		-/	=,			PO	<u>"</u> —	<u> </u>	29							
Telephone Number: 843.41	2.2097	, ,			. F	ax N	o.:	0	43	- 2		K	<u>-C</u>	70	2/		TA Q	uote f	<u>"—</u>									
Sampler Name: (Print)	**************************************	140	, 							·····			14				Pro	ject IC	: <u>Lau</u>	rel Bay	Housi	ng Proj	ect					
Sampler Signature:	MIN	4_															Pn	oject #	! <u></u>									
		, ———		Т-	_	_\$	Ø	Prese	rvativ	e	<u> </u>			Matr	İX	_		,	, .			Analyz	e For:					<u> </u>
i	109 103	0 5	X X Crap	Composite	Field Filtered		S S S S S S S S S S S S S S S S S S S	NaOH (Orange Label)		M. M. M. Mone (Riest I shan	Other (Sp	Groundwater	Wastewater	Orinking Water	egonis X X Y		W G U W BTEX + Napth - 8260	3070C					V:	× 24		01 02 03 04		RUSH TAT (Pre-Schedule)
			+	\vdash		+	+	╀	\vdash	- -	Н			+	-	Н				\blacksquare	1	+=	+	4-	_	_	\dashv	
Relinquished by: Relinquished by:	Date / Q / Q / Date	19	me OO	Recei	ived b	Test	1	<u> </u>	omeni	<u>t</u>	<u>i</u> ,			Date		DEX	Time	9	Labo	Tem	peratu	nents: re Upor			<u> </u>		1	Y

ATTACHMENT A



NON-HAZARDOUS MANIFEST

CVA

Ple	use print or type. (Form designed for use on elite (12-pitch) typewriter.)				.,				
	NON-HAZARDOUS MANIFEST 1. Geherator's US EPA ID	12/1/6/1/6/9/91	Manifes cument	2 2	2. Pag of				
	3. Generator's Name and Mailing Address MCAS, Beautiont Laurel Bay Housing Beautiont SC 29804 4. Generator's Phone 843 228-6480				A. Man W B. State	MNA Generator's	iD	100	85481
	5. Transporter 1 Company Name 6.	US EPA ID Number				a Transporter's			
	EEG. Inc.				D. Tran	sporter's Pho	ne 84	3 879	-0411
	7. Transporter 2 Company Name 8.	US EPA ID Number			E. State	Transporter's	s ID		44
						sporter's Phor	ne		
	Designated Facility Name and Site Address 10.	US EPA ID Number			₫. State	e Facility's ID			
	HICKORY HILL LANDFILL ROUTE 1, BOX 121 RIDGELAND SC 20036 11. Description of Waste Materials		1 1	2. Cont		ity's Phone		3 987-	4643
					Type	13. Total Quantii	v	14. Unit Wt./Vol.	Misc. Comments
	*Heating Oil Tank filled with Sand								
G	WM Profile # 1026	55SC	0 () :1		1 1 1	. I.		
GENERATOR			1			لسلبلسا			
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	WM Profile #		Ι,	,	١. ا				
	THE LOUIS #		\sqcup					ļ	_
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	WM Profile #		١.						
	TAME LACING #					لبليليا		<u> </u>	<u> </u>
	J. Additional Descriptions for Materials Listed Above				K. Dis	sposal Locat	ion		
	Landfill Solidification	_			Cell			Leve	le
	Bio Remediation				Grid				
	15. Special Handling Instructions and Additional Information			121		2/15/	3 L 6	una!	Ret Blat - 7
	Wr n 1157 8	148 Land 150	" X	70.	MACE A		<i>-</i>	15,699,4	100 AT 2 3
	~	153 Love 1 Wa	1 1	Hud		4) (00	ypun	£ 55
ļ	Purchase Order #	EMERGENCY CONTACT:				f		•	
	16. GENERATOR'S CERTIFICATION:		-			-			
-					- J-C:		0.00	D D	1 001
	I hereby certify that the above-described materials applicable state law, have been fully and accurate for transportation according to applicable regulation	ly described, classific							
	Printed/Typed Name/	Signature "On behalf of".	K	ž	en		V		Month Day Year
וּ	17. Transporter 1 Acknowledgement of Receipt of Materials								
Ä	Printed/Typed Name	Signature		Λ					Month Day Year
	James Baldwin	Marries B		المام	سلمرأرار	and the same of th			<u>101313101014</u>
P [18. Transporter 2 Acknowledgement of Receipt of Materials								
TRANSPORTER	Printed/Typed Name	Signature							Month Day Year
1	19. Certificate of Final Treatment/Disposal					•			<u> </u>
	I certify, on behalf of the above listed treatment factives was managed in compliance with all applicable law								
<u>:</u>	20. Facitilty Owner or Operator: Certification of receipt of non-hazardous ma	aterials covered by this manife	est.					T	
	- Printed/Typed Name	Signature		J.	· · · · · · · · · · · · · · · · · · ·				Month Day Year
				. Same	1				

Appendix C Laboratory Analytical Report - Groundwater



Volatile Organic Compounds by GC/MS

Client: AECOM - Resolution Consultants

Description: BEALB160TW01G20130722

Laboratory ID: OG23017-003

Date Sampled: 07/22/2013 1230

Matrix: Aqueous

Date Received: 07/23/2013

Run Prep Method Analytical Method Dilution Analysis Date Analyst Prep Date Batch 1 5030B 8260B 07/30/2013 1753 **RGB** 26172

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
Benzene	71-43-2	8260B	ND		0.50	0.25	0.027	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	0.25	0.17	ug/L	1
Naphthalene	91-20-3	8260B	0.38	J	0.50	0.25	0.12	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	0.25	0.17	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	0.25	0.17	ug/L	1
	Run 1 Accep	tance							

Surrogate	Q	% Recovery	Limits
1,2-Dichloroethane-d4		89	70-120
Toluene-d8		91	85-120
Bromofluorobenzene		93	75-120
Dibromofluoromethane		89	85-115

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

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

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

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

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

Semivolatile Organic Compounds by GC/MS

Client: AECOM - Resolution Consultants

Description: BEALB160TW01G20130722

Laboratory ID: OG23017-003

Matrix: Aqueous

Date Sampled: 07/22/2013 1230 Date Received: 07/23/2013

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

1 3520C	8270D	1 07/2	24/2013 1801	I JRG	07/23/2013	1012 25626				
Parameter		Num		nalytical Method	Result Q	LOQ	LOD	DL U	Jnits	Run
Benzo(a)anthracene		56-	55-3	8270D	ND	0.20	0.10	0.084	ug/L	1
Benzo(b)fluoranthene		205-9	99-2	8270D	ND	0.20	0.10	0.089	ug/L	1
Benzo(k)fluoranthene		207-0	08-9	8270D	ND	0.20	0.10	0.094	ug/L	1
Chrysene		218-0	01-9	8270D	ND	0.20	0.10	0.055	ug/L	1
Dibenzo(a,h)anthracene		53-	70-3	8270D	ND	0.20	0.10	0.059	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
2-Fluorobiphenyl		78	50-110							
Nitrobenzene-d5		78	40-110							
Terphenyl-d14		60	50-135							

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

H = Out of holding time

Q = Surrogate failure L = LCS/LCSD failure

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

N = Recovery is out of criteria

S = MS/MSD failure

Appendix D Regulatory Correspondence





C. Earl Hunter, Commissioner

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

July 22, 2009

Commanding Officer

ATTN: S-4 NREAO (Craig Ehde)

MCAS

PO Box 55001

Beaufort, SC 29904-5001

Re:

MCAS – Laurel Bay Housing – 160 Cypress St.

Site ID # 04230

UST Closure Reports received June 29, 2009

Beaufort County

Dear Mr. Ehde:

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

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

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

Sinderely

√an T. Cooke, Hydrogeologist AST Petroleum Restoration

& Site Environmental Investigations Section

Land Revitalization Division

Bureau of Land and Waste Management SC Dept. of Health & Environmental Control

cc: Region 8 District EQC

Tri-Command Communities; Attn: Mr. Robert Bible; 600 Laurel Bay Road Beaufort, SC

29906

Technical File



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

Division of Waste Management Bureau of Land and Waste Management

August 6, 2015

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

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

Laurel Bay Military Housing Area Multiple Properties

Dated June 2015

Dear Mr. Drawdy,

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

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

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

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

Sincerely,

Laurel Petrus

FURX

RCRA Federal Facilities Section

Attachment: Specific Property Recommendations

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

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

Craig Ehde (via email)

Attachment to: Petrus to Drawdy

Subject: Draft Final Initial Groundwater Investigation Report-July 2013

Specifice Property Recommendations Dated August 6, 2015

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

Permanent Monito	ring Well Investigation recommendation (10 addresses/11 tanks)
119 Banyan	156 Laurel Bay
128 Banyan	1033 Foxglove
132 Banyan	1055 Gardenia
135 Birch	1059 Gardenia
148 Laurel Bay	1168 Jasmine
	her Action recommendation (25 addresses/27 tanks):
115 Banyan	386 Acorn
116 Banyan	395 Acorn
120 Banyan	399 Acorn
124 Banyan	1021 Foxglove
125 Banyan	1027 Foxglove
136 Birch	1030 Foxglove
140 Laurel Bay	1032 Foxglove
144 Laurel Bay	1053 Gardenia
152 Laurel Bay	1058 Gardenia
160 Cypress	1061 Gardenia
263 Beech	1166 Jasmine
203 Deecii	
269 Birch	1169 Jasmine