SUMMARY REPORT
935 WEST LAUREL BAY BOULEVARD (FORMERLY 150 WEST LAUREL BAY BOULEVARD)

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

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Prepared by:



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

Contract Number: N62470-14-D-9016

CTO WE52

JUNE 2021



Table of Contents

1.0 1.1 1.2	Backgrou	TION
2.0		ACTIVITIES AND RESULTS
2.1 2.2		VAL AND SOIL SAMPLING
3.0	PROPERTY	STATUS
4.0	REFERENC	ES4
Table	1	Table Laboratory Analytical Results - Soil Appendices
Appen Appen Appen	dix B	Multi-Media Selection Process for LBMH UST Assesment Report Regulatory Correspondence



List of Acronyms

bgs below ground surface

BTEX benzene, toluene, ethylbenzene, and xylenes

CTO Contract Task Order

COPC constituents of potential concern

IDIQ Indefinite Delivery, Indefinite Quantity

IGWA Initial Groundwater Assessment

JV Joint Venture

LBMH Laurel Bay Military Housing MCAS Marine Corps Air Station

NAVFAC Mid-Lant Naval Facilities Engineering Command Mid-Atlantic

NFA No Further Action

PAH polynuclear aromatic hydrocarbon

QAPP Quality Assurance Program Plan

RBSL risk-based screening level

SCDHEC South Carolina Department of Health and Environmental Control

Site LBMH area at MCAS Beaufort, South Carolina

UST underground storage tank

VISL vapor intrusion screening level



1.0 INTRODUCTION

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

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

This report summarizes the results the environmental investigation activities associated with the storage of home heating oil and the potential release of petroleum constituents at the referenced property. Based on the results of the investigation, a No Further Action (NFA) determination has been made by the South Carolina Department of Health and Environmental Control (SCDHEC) for 935 West Laurel Bay Boulevard (Formerly 150 West Laurel Bay Boulevard). 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 935 West Laurel Bay Boulevard (Formerly 150 West Laurel Bay Boulevard). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 150 West Laurel Bay Boulevard* (MCAS Beaufort, 2011). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On September 27, 2011, a single 280 gallon heating oil UST was removed from the landscaped area adjacent to the driveway at 935 West Laurel Bay Boulevard (Formerly 150 West Laurel Bay Boulevard). The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). The UST was removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of the UST was 5'10" 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 935 West Laurel Bay Boulevard (Formerly 150 West Laurel Bay Boulevard) were less than the SCDHEC RBSLs, which indicated the subsurface was not impacted by COPCs associated with the former UST at concentrations that presented a potential risk to human health and the environment.

3.0 PROPERTY STATUS

Based on the analytical results for soil, SCDHEC made the determination that NFA was required for 935 West Laurel Bay Boulevard (Formerly 150 West Laurel Bay Boulevard). This NFA determination was obtained in a letter dated July 1, 2015. SCDHEC's NFA letter is provided in Appendix C.

4.0 REFERENCES

Marine Corps Air Station Beaufort, 2011. South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 150 West Laurel Bay Boulevard, Laurel Bay Military Housing Area, December 2011.



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

Table



Table 1

Laboratory Analytical Results - Soil

935 West Laurel Bay Boulevard (Formerly 150 West Laurel Bay Boulevard)

Laurel Bay Military Housing Area Marine Corps Air Station Beaufort Beaufort, South Carolina

Constituent	SCDHEC RBSLs (1)	Results Sample Collected 09/27/11					
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)							
Benzene	0.003	ND					
Ethylbenzene	1.15	ND					
Naphthalene	0.036	ND					
Toluene	0.627	ND					
Xylenes, Total	13.01	ND					
Semivolatile Organic Compounds Anal	yzed by EPA Method 8270D (mg/kg)						
Benzo(a)anthracene	0.66	ND					
Benzo(b)fluoranthene	0.66	ND					
Benzo(k)fluoranthene	0.66	ND					
Chrysene	0.66	ND					
Dibenz(a,h)anthracene	0.66	ND					

Notes:

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

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

mg/kg - milligram per kilogram

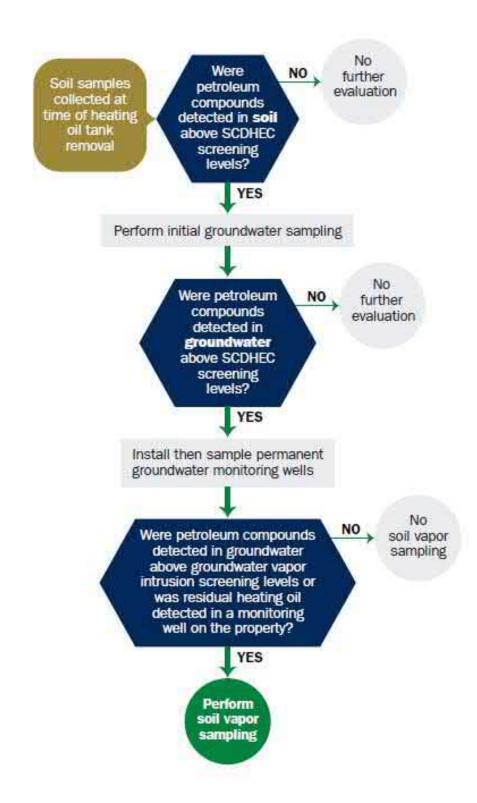
ND - not detected at the reporting limit (or method detection limit if shown on the laboratory report). The laboratory report is provided in Appendix B.

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

Appendix A Multi-Media Selection Process for LBMH





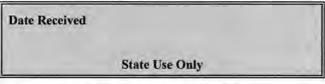
Appendix A - Multi-Media Selection Process for LBMH

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



DEC 0 8 2011

NO DHEC - Buresu of & Waste Management

. OWNERSHIP OF UST (S)

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

II. SITE IDENTIFICATION AND LOCATION

Permit I.D. # Laurel Bay	Military Housing	Area, Marine	Corps Air	Station,	Beaufort,	SC
Facility Name or 0	Company Site Identifier					
	Bay Boulevard, La State Road (as applicable		itary Hous	sing Area		-
Beaufort,	Веа	aufort				
City	C	ounty				

Attachment 2

III. INSURANCE INFORMATION

Insurance S	Statement
The petroleum release reported to DHEC onqualify to receive state monies to pay for appropriate site allowed in the State Clean-up fund, written confirmation of insurance policy is required. This section must be complete.	rehabilitation activities. Before participation is of the existence or non-existence of an environmental
Is there now, or has there ever been an insurance p UST release? YES NO (check one)	policy or other financial mechanism that covers this
If you answered YES to the above question	n, 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	a copy of the policy with this report.
V. CERTIFICATION (T	To be signed by the UST owner)
I certify that I have personally examined and am fam attached documents; and that based on my inquiry information, I believe that the submitted information i	niliar with the information submitted in this and all
Name (Type or print.)	
Signature	
To be completed by Notary Public:	
Sworn before me this day of	, 20
(Name)	—c
Notary Public for the state of	outh Carolina

VI. UST INFORMATION	150LaurelBB
Product(ex. Gas, Kerosene)	Heating oil
Capacity(ex. 1k, 2k)	280 gal
Age	Late 1950s
Construction Material(ex. Steel, FRP)	Steel
Month/Year of Last Use	Mid 80s
Depth (ft.) To Base of Tank	5'10"
Spill Prevention Equipment Y/N	No
Overfill Prevention Equipment Y/N	No
Method of Closure Removed/Filled	Removed
Date Tanks Removed/Filled	9/27/2011
Visible Corrosion or Pitting Y/N	Yes
Visible Holes Y/N	Yes
Method of disposal for any USTs removed from the UST 150LaurelBB was removed from	ne ground (attach disposal manifests) m the ground, and disposed at a
Subtitle "D" landfill. See Attac	chment "A".
Method of disposal for any liquid petroleum, sludg disposal manifests) UST 150LaurelBB had been previou	

VII. PIPING INFORMATION

		150LaurelBB			
		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	No			
	Visible Corrosion or Pitting Y/N	Yes			
	Visible Holes Y/N	No			
	Age	Late 1950s			
If any corrosion, pitting, or holes were observed, describe the location and extent for each pipin Steel vent piping for was corroded and pitted. All copper					
		ded and pitted. All copper			
	Steel vent piping for was corro	ded and pitted. All copper			
	Steel vent piping for was corrosupply and return piping were s	ded and pitted. All copper ound.			
	Steel vent piping for was corro	ded and pitted. All copper ound. RIPTION AND HISTORY constructed of single wall stee			

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?		х	
If yes, indicate depth and location on the site map.			
B. Were any petroleum odors detected in the excavation, soil borings, trenches, or monitoring wells?		Х	
If yes, indicate location on site map and describe the odor (strong, mild, etc.)			
C. Was water present in the UST excavation, soil borings, or trenches?		х	
If yes, how far below land surface (indicate location and depth)?			
D. Did contaminated soils remain stockpiled on site after closure?		Х	
If yes, indicate the stockpile location on the site map.			
Name of DHEC representative authorizing soil removal:			
Was a petroleum sheen or free product detected on any excavation or boring waters?		х	
If yes, indicate location and thickness.			

X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 84009

B.

	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA#
150 urel Bay	Excav at fill end	Soil	Sandy	5'10"	9/27/11 1115 hrs	P. Shaw	
	-						
		-					
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.

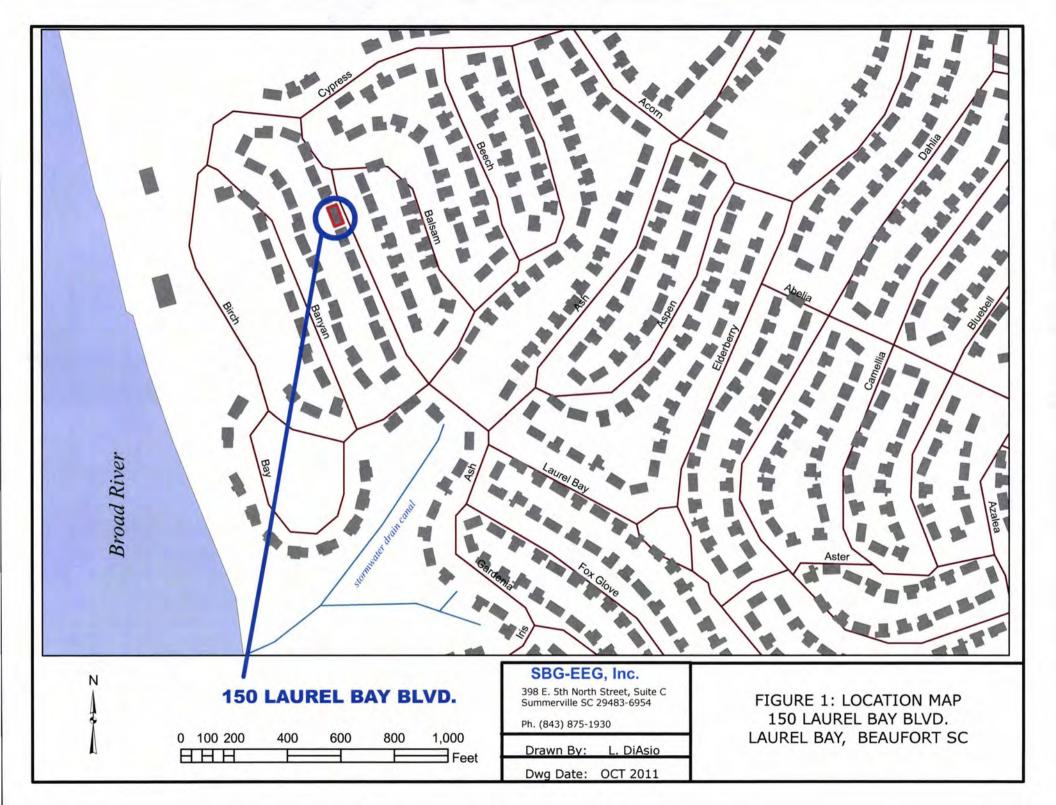
XII. RECEPTORS

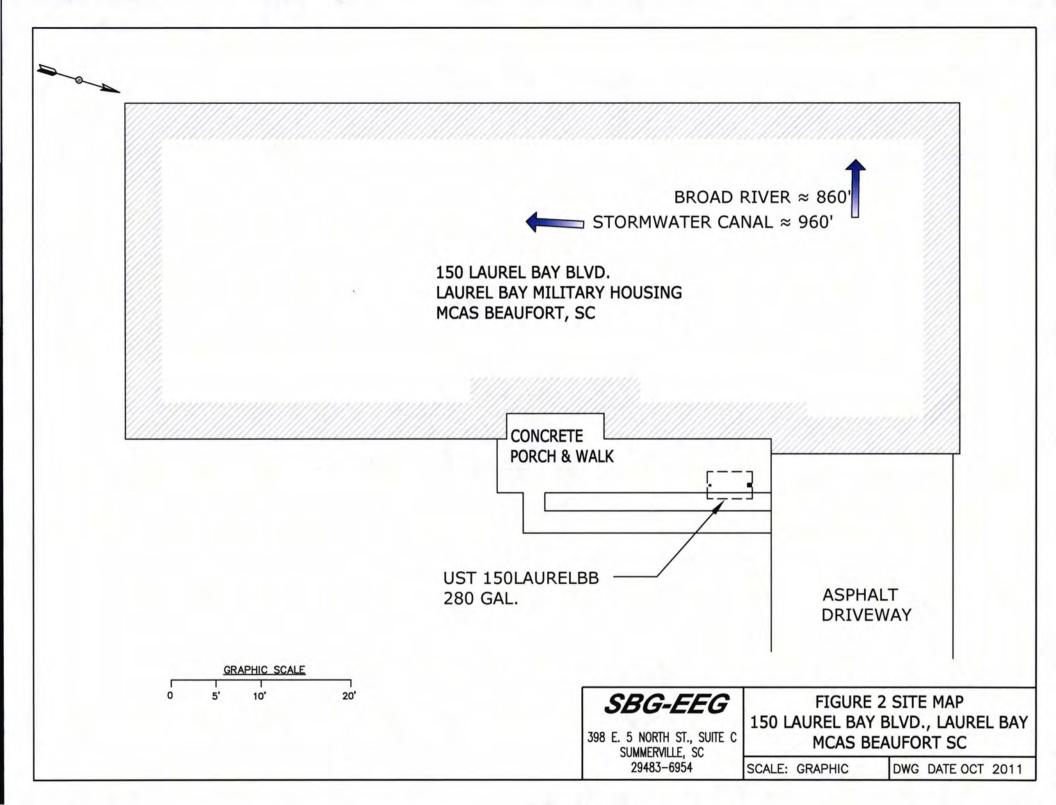
Yes No A. Are there any lakes, ponds, streams, or wetlands located within *X 1000 feet of the UST system? *Approx 960' to Broad R. & 860' to stormwater canal If yes, indicate type of receptor, distance, and direction on site map. B. Are there any public, private, or irrigation water supply wells within X 1000 feet of the UST system? If yes, indicate type of well, distance, and direction on site map. C. Are there any underground structures (e.g., basements) X Located within 100 feet of the UST system? If yes, indicate type of structure, distance, and direction on site map. D. Are there any underground utilities (e.g., telephone, electricity, gas, *X 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. Has contaminated soil been identified at a depth less than 3 feet X below land surface in an area that is not capped by asphalt or concrete? If yes, indicate the area of contaminated soil on the site map.

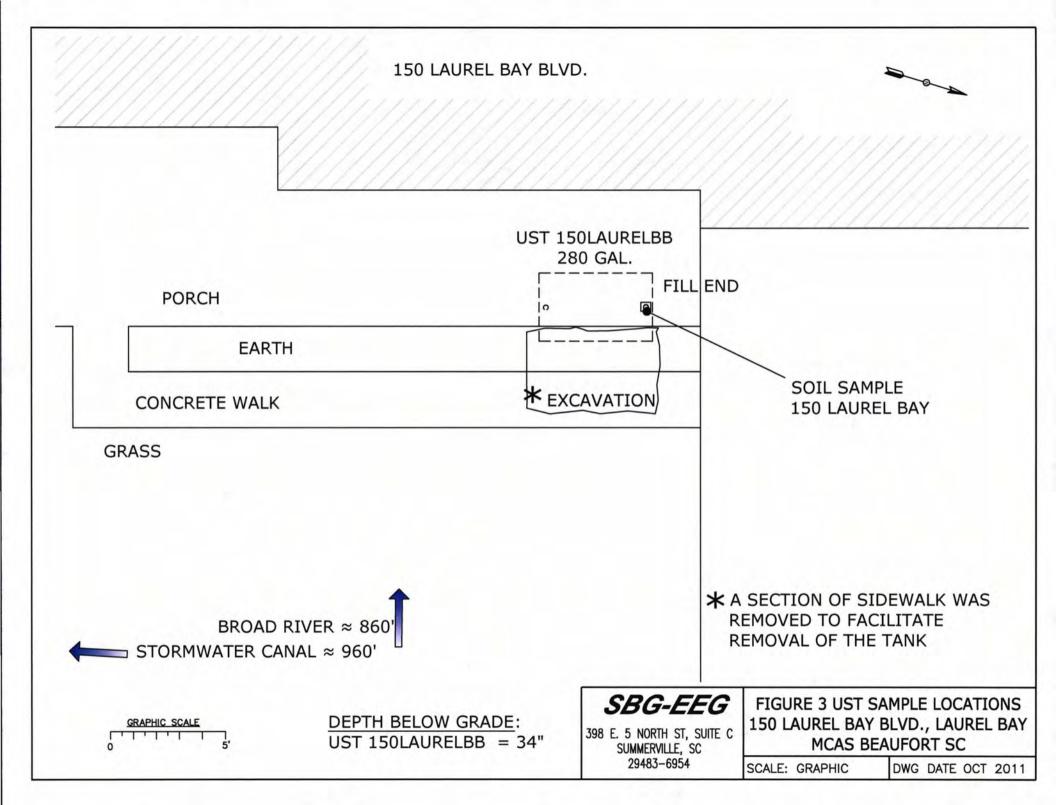
XIII. SITE MAP

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

(Attach Site Map Here)









Picture 1: UST 150LaureIBB location.



Picture 2: UST 150LaureIBB awaiting disposal.

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 UST	150LaurelBB			
Benzene	ND			
Toluene	ND			
Ethylbenzene	ND		1	
Xylenes	ND			
Naphthalene	ND		TEST.	
Benzo (a) anthracene	ND			
Benzo (b) fluoranthene	ND			
Benzo (k) fluoranthene	ND			
Chrysene	ND			
Dibenz (a, h) anthracene	ND			
TPH (EPA 3550)				
CoC				
Benzene				
Toluene				
Ethylbenzene				- J
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 (µg/l)	W-1	W-2	W -3	W -4
Free Product Thickness	None				
Benzene	5				
Toluene	1,000				
Ethylbenzene	700				
Xylenes	10,000				
Total BTEX	N/A				
MTBE	40				
Naphthalene	25				
Benzo (a) anthracene	10				
Benzo (b) flouranthene	10				
Benzo (k) flouranthene	10				
Chrysene	10				
Dibenz (a, h) anthracene	10				
EDB	.05				
1,2-DCA	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)





October 18, 2011

150 Laurel Bay

200 Balsam

203 Balsam

9:10:45AM

Client:

Attn:

EEG - Small Business Group, Inc. (2449)

10179 Highway 78

Ladson, SC 29456

Tom McElwee

Work Order: NUJ0011

Project Name: Laurel Bay Housing Project

Project Nbr; [none] P/O Nbr: 1027 Date Received: 09/30/11

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE AND TIME

 NUJ0011-01
 09/27/11 11:15

 NUJ0011-02
 09/28/11 12:00

 NUJ0011-03
 09/29/11 12:00

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.

This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately at 615-726-0177.

Additional Laboratory Comments: ***Revised Report 10/18/2011**

Corrected sample date per COC.

Replaces report dated 10/12/2011 at 16:50.

South Carolina Certification Number: 84009

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

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

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

Estimated uncertainty is available upon request.

Roxanne L. Connor

This report has been electronically signed.

Report Approved By:

Roxanne Connor

Program Manager - Conventional Accounts



10179 Highway 78 Ladson, SC 29456

Tom McElwee

Attn

Work Order:

NUJ0011

Project Name:

Laurel Bay Housing Project

Project Number: [none]

Received: 09/30/11 08:15

ANALYTICAL REPORT

						Dilution				
Analyte	Result	Flag	Units	MDL	MRL	Factor	Date/Time	Method	Analyst	Bate
Sample ID: NUJ0011-01 (150 La	urel Bay - Soil) Sample	ed: 09/27/	11 11:15						
General Chemistry Parameters										
% Dry Solids	83.7		9/4	0.500	0.500	1	10/06/11 11:13	SW-846	RRS	111081
Volatile Organic Compounds by EP/	A Method 8260B	6								
Benzene	ND		mg/kg dry	0.00102	0.00186	1	10/06/11 15:03	SW846 8260B	KKK	11,1130
Ethylbenzene	ND		mg/kg dry	0.00102	0.00186	1	10/06/11 15:03	SW846 8260B	KKK	111130
Vaphthalene	ND		mg/kg dry	0.00232	0.00464	T	10/06/11 15:03	SW846 8260B	KKK	111130
l'oluene	ND		mg/kg dry	0,00102	0.00186	1	10/06/11 15:03	SW846 8260B	KKK	111130
Xylenes, total	ND		mg/kg dry	0.00232	0.00464	1	10/06/11 15:03	SW846 8260B	KKK	111130
Surr: 1,2-Dichloroethane-d4 (70-130%)	110%					1	10:06 11 15:03	SW846 8260B	KKK	11313
Surr. Dibromofluoromethane (70-130%)	112%					1	10 06 11 15:03	SW846 8260B	KKK	11313
Surr: Toluene-d8 (70-130%)	91%					1	10 06 11 15:03	SW846 8260B	KKK	11,113
urr: 4-Bromofluorobenzene (70-130%)	96 %					T.	10 06 11 15:03	SW846 8260B	KKK	11.113
Polyaromatic Hydrocarbons by EPA	8270D									
Acenaphthene	ND		mg/kg dry	0.0402	0.0793	Y	10/02/11 00:04	SW846 8270D	КЈР	111001
Acenaphthylene	ND		mg/kg dry	0.0402	0.0793	1	10/02/11 00:04	SW846 8270D	KJP	113001
Anthracene	ND		mg/kg dry	0.0402	0.0793	t	10/02/11 00:04	SW846 8270D	KJP	111001
Benzo (a) anthracene	ND		mg/kg dry	0.0402	0.0793	1	10/02/11 00:04	SW846 8270D	KJP	111001
Benzo (a) pyrene	ND		mg/kg dry	0.0402	0.0793	1	10/02/11 00:04	SW846 8270D	KJP	111001
Benzo (b) fluoranthene	ND		mg/kg dry	0.0402	0.0793	1	10/02/11 00:04	SW846 8270D	KJP	111001
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0402	0.0793	1	10/02/11 00:04	SW846 8270D	KJP	111001
Benzo (k) fluoranthene	ND		mg/kg dry	0.0402	0.0793	1	10/02/11 00:04	SW846 8270D	KJP	111001
Chrysene	ND		mg/kg dry	9.0402	0.0793	1	10/02/11 00:04	SW846 8270D	KJP	111001
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0402	0.0793	1	10/02/11 00:04	SW846 8270D	KJP	111001
luoranthene	ND		mg/kg dry	0.0402	0.0793	Ĭ	10/02/11 00:04	SW846 8270D	KJP	111001
luorene	ND		mg/kg dry	0.0402	0.0793	1	10/02/11 00:04	SW846 8270D	KJP	11,001
ndeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0402	0.0793	1	10/02/11 00:04	SW846 8270D	KJP	11J001
Naphthalene	ND		mg/kg dry	0.0402	0.0793	1	10/02/11 00:04	SW846 8270D	KJP	111001
Phenanthrene	ND		mg/kg dry	0.0402	0.0793	1	10/02/11 00:04	SW846 8270D	KJP	111001
yrene	ND		mg/kg dry	0.0402.	0.0793	1	10/02/11 00:04	SW846 8270D	KJP	11,001
-Methylnaphthalene	ND		mg/kg dry	0.0402	0,0793	1	10/02/11 00:04	SW846 8270D	KJP	111001
2-Methylnaphthalene	ND		mg/kg dry	0.0402	0.0793	1	10/02/11 00:04	SW846 8270D	KJP	11,1001
Surr: Terphenyl-d14 (18-120%)	70 %					1	10 02 11 00:04	SW846.8270D	KJP.	11,100
Surr: 2-Fluorobiphenyl (14-120%)	65 %					I	10:02 11:00:04	SW846 8270D	K.IP	11/100
Surr: Nitrobenzene-d5 (17-120%)	60%					1	10:02:11:00:04	SW846 8270D	KJP	11,100



10179 Highway 78 Ladson, SC 29456 Tom McElwee

Attn

Work Order

NUJ0011

Project Name:

Laurel Bay Housing Project

Project Number [none]

Received: 09/30/11 08:15

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUJ0011-02 (200 Ba	lsam - Soil) Sa	mpled:	09/28/11 1	2:00						
General Chemistry Parameters										
% Dry Solids	90.5		%	0.500	0.500	t	(0/06/11 11:13	SW-846	RRS	1110811
Volatile Organic Compounds by EPA	A Method 8260B									
Benzene	ND		mg/kg dry	0.00126	0.00229	Ī	10/06/11 15:33	SW846 8260B	KKK	[1]1301
Ethylbenzene	ND		mg/kg dry	0.00126	0.00229	ī	10/06/11 15:33	SW846 8260B	KKK	1111301
Naphthalene	ND		mg/kg dry	0.00287	0.00573	t	10/06/11 15:33	SW846 8260B	KKK	1111301
Toluene	ND		mg/kg dry	0.00126	0.00229	T	10/06/11 15:33	SW846 8260B	KKK	1111301
Xylenes, total	ND		mg/kg dry	0,00287	0.00573	t	10/06/11 15:33	SW846 8260B	KKK	1111301
Surr: 1,2-Dichloroethane-d4 (70-130%)	111 %					7	10 06 11 15:33	SW846 8260B	KKK	113130
Surr: Dibromofluoromethane (70-130%)	111%					T	10 06 11 15:33	SW846 8260B	KKK	11,1130
Surr: Toluene-d8 (70-130%)	90 %					1	10 06 11 15:33	SW846 8260B	KKK	11.7130
Surr. 4-Bromofluorobenzene (70-130%)	98 %					T	10/06/11 15/33	SW846 8260B	KKK	11,7130
Polyaromatic Hydrocarbons by EPA	8270D									
Acenaphthene	ND		mg/kg dry	0.0369	0.0728	1	10/02/11 00:24	SW846 8270D	KJP	1130015
Acenaphthylene	ND		mg/kg dry	0.0369	0.0728	1	10/02/11 00:24	SW846 8270D	KJP	1110015
Anthracene	ND		mg/kg dry	0.0369	0.0728	Y	10/02/11 00:24	SW846 8270D	KJP	11J0015
Benzo (a) anthracene	ND		mg/kg dry	0.0369	0.0728	1.	10/02/11 00:24	SW846 8270D	KJP	1130015
Benzo (a) pyrene	ND		mg/kg dry	0.0369	0.0728	Ĭ	10/02/11 00:24	SW846 8270D	KJP	1110015
Benzo (b) fluoranthene	ND		mg/kg dry	0.0369	0.0728	1	10/02/11 00:24	SW846 8270D	KJP	11/0015
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0369	0.0728	1	10/02/11 00:24	SW846 8270D	KJP	1110015
Benzo (k) fluoranthene	ND		mg/kg dry	0.0369	0.0728	1	10/02/11 00:24	SW846 8270D	KJP	1130015
Chrysene	ND		mg/kg dry	0.0369	0.0728	I	10/02/11 00:24	SW846 8270D	KJP	11,0015
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0369	0.0728	1	10/02/11 00:24	SW846 8270D	KJP	1110015
Fluoranthene	ND		mg/kg dry	0.0369	0.0728	1	10/02/11 00:24	SW846 8270D	KJP	11J0015
Fluorene	ND		mg/kg dry	0.0369	0.0728	1	10/02/11 00:24	SW846 8270D	KJP	11J0015
Indeno (1,2,3-ed) pyrene	ND		mg/kg dry	0.0369	0.0728	1	10/02/11 00:24	SW846 8270D	KJP	11J0015
Naphthalene	ND		mg/kg dry	0.0369	0.0728	1	10/02/11 00:24	SW846.8270D	KJP	1110015
Phenanthrene	ND		mg/kg dry	0.0369	0.0728	1	10/02/11 00:24	SW846 8270D	KJP	1110015
Pyrene	ND		mg/kg dry	0.0369	0.0728	Ĭ	10/02/11 00:24	SW846 8270D	KJP	1110015
I-Methylnaphthalene	ND		mg/kg dry	0.0369	0.0728	1	10/02/11 00 24	SW846 8270D	KJP	11,0015
2-Methylnaphthalene	ND		mg/kg dry	0.0369	0.0728	1	10/02/11 00:24	SW846 8270D	KJP	1130015
Surr: Terphenyl-d14 (18-120%)	63 %					1	10/02/11/00:24	SW846 8270D	KJP	11,7001.
Surr. 2-Fluorohiphenyl (14-120%)	59 %					7	10/02/11 00:24	SW846 8270D	KJP	11,1001.
Surr: Nitrobenzene-d5 (17-120%)	55 46					1	10:02:11:00:24	SW846 8270D	KJP	11.7001



10179 Highway 78 Ladson, SC 29456 Tom McElwee

Attn

Work Order

NUJ0011

Project Name:

Laurel Bay Housing Project

Project Number [none]

Received; 09/30/11 08:15

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUJ0011-03 (203 Ba General Chemistry Parameters	lsam - Soil) Sa	mpled:	09/29/11 1	2:00						
% Dry Solids	80.3		9/4	0.500	0.500	L	10/06/11 11:13	SW-846	RRS	1130811
Volatile Organic Compounds by EPA	Method 8260B									
Benzene	ND		mg/kg dry	0.00122	0.00222	T.	10/06/11 16:04	SW846 8260B	KKK	1111301
Ethylbenzene	ND		mg/kg dry	0.00122	0.00222	1	10/06/11 16:04	SW846 8260B	KKK	1111301
Naphthalene	ND		mg/kg dry	0.00278	0.00556	I.	10/06/11 16:04	SW846 8260B	KKK	1111301
Toluene	ND		mg/kg dry	0.00122	0.00222	1	10/06/11 16:04	SW846 8260B	KKK	1111301
Xylenes, total	ND		ing/kg dry	0.00278	0.00556	1	10/06/11 16:04	SW846 8260B	KKK	1111301
Surr: 1,2-Dichloroethane-d4 (70-130%)	109 %					/	10:06:11 16:04	SW846 8260B	KKK	1131301
Surr. Dibromofluoromethane (70-130%)	1/3 %					1	10 06 11 16:04	SW846 8260B	KKK	11,11301
Surr: Toluene-d8 (70-130%)	95 %					7.	10 06 11 16 04	SW846 8260B	KKK	11.11301
Surr: 4-Bromofluorobenzene (70-130%)	108.96					1	10:06:11 16:04	SW846 8260B	KKK	11.11301
Polyaromatic Hydrocarbons by EPA	8270D									
Acenaphthene	ND		mg/kg dry	0.0422	0.0831	1	10/02/11 00:45	SW846 8270D	KJP	1130015
Acenaphthylene	ND		mg/kg dry	0.0422	0.0831	1	10/02/11 00:45	SW846 8270D	KJP	1110015
Anthracene	ND		mg/kg dry	0.0422	0.0831	D	10/02/11 00:45	SW846 8270D	KJP	1110015
Benzo (a) anthracene	ND		mg/kg dry	0.0422	0.0831	3	10/02/11 00:45	SW846 8270D	КЈР	1130015
Benzo (a) pyrene	ND		mg/kg dry	0.0422	0.0831	T	10/02/11 00:45	SW846 8270D	KJP	1110015
Benzo (b) fluoranthene	ND		mg/kg dry	0.0422	0.0831	L	10/02/11 00:45	SW846 8270D	KJP	1110015
Benzo (g,h,i) perylene	0.102		mg/kg dry	0.0422	0.0831	1	10/02/11 00:45	SW846 8270D	КЛР	1130015
Benzo (k) fluoranthene	ND		mg/kg dry	0.0422	0.0831	D	10/02/11 00:45	SW846 8270D	KJP	11J0015
Chrysene	ND		mg/kg dry	0.0422	0.0831	4	10/02/11 00:45	SW846 8270D	KJP	1110015
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0422	0.0831	1	10/02/11 00:45	SW846 8270D	KJP	1130015
Fluoranthene	ND		mg/kg dry	0.0422	0.0831	1	10/02/11 00:45	SW846 8270D	KJP	1130015
Fluorene	ND		mg/kg dry	0.0422	0.0831	1	10/02/11 00:45	SW846 8270D	KJP	1130015
Indeno (1,2,3-cd) pyrene	0.106		mg/kg dry	0.0422	0.0831	1	10/02/11 00:45	SW846 8270D	KJP	1130015
Naphthalene	ND		mg/kg dry	0.0422	0.0831	1	10/02/11 00:45	SW846 8270D	KJP	1130015
Phenanthrene	ND		mg/kg dry	0.0422	0.0831	1	10/02/11 00:45	SW846 8270D	KJP	1130015
Pyrene	ND		mg/kg dry	0.0422	0.0831	T	10/02/11 00:45	SW846 8270D	KJP	11J0015
-Methylnaphthalene	ND		mg/kg dry	0.0422	0.0831	1.	10/02/11 00:45	SW846 8270D	KJP	11J0015
2-Methylnaphthalene	ND		mg/kg dry	0.0422	0.0831	T.	10/02/11 00:45	SW846 8270D	KJP	11J0015
Surr: Terphenyl-d14 (18-120%)	67 %					1	10.02 11.00:45	SW846 8270D	KJP	11,10013
Surr: 2-Fluorohiphenyl (14-120%)	61 %					T	10:02:11:00:45	SW846 8270D	KJP	11,10015
Surr: Nitrobenzene-d5 (17-120%)	62 %					1	10 02 11 00:45	SW846 8270D	KJP.	1130015





10179 Highway 78 Ladson, SC 29456

Tom McElwee

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Work Order: NUJ0011

Project Name: Laurel Bay Housing Project

Project Number: [none]

Received: 09/30/11 08:15

SAMPLE EXTRACTION DATA

		Wt/Vol				Extraction	
Batch	Lab Number	Extracted	Extract Vol	Date	Analyst	Method	
EPA 8270D							
11J0015	NUJ0011-01	30.30	1.00	10/01/11 11:45	AMJ	EPA 3550C	
1130015	NUJ0011-02	30,53	1,00	10/01/11 11:45	AMJ	EPA 3550C	
11,0015	NUJ0011-03	30.09	1.00	10/01/11 11:45	AMJ	EPA 3550C	
EPA Method 8260B							
1131301	NUJ0011-01	6.44	5,00	09/27/11 11:15	AAN	EPA 5035	
11J1301	NUJ0011-02	4.82	5,00	09/27/11 12:00	AAN	EPA 5035	
1111301	NUJ0011-03	5.60	5.00	09/27/11 12:00	AAN	EPA 5035	
	EPA 8270D 1130015 1130015 1130015 EPA Method 8260B 1131301 1131301	EPA 8270D 11J0015 NUJ0011-01 11J0015 NUJ0011-02 11J0015 NUJ0011-03 EPA Method 8260B 11J1301 NUJ0011-01 11J1301 NUJ0011-02	Batch Lab Number Extracted EPA 8270D 11J0015 NUJ0011-01 30.30 11J0015 NUJ0011-02 30.53 11J0015 NUJ0011-03 30.09 EPA Method 8260B 11J1301 NUJ0011-01 6.44 11J1301 NUJ0011-02 4.82	Batch Lab Number Extracted Extract Vol EPA 8270D 11J0015 NUJ0011-01 30.30 1.00 11J0015 NUJ0011-02 30.53 1.00 11J0015 NUJ0011-03 30.09 1.00 EPA Method 8260B 11J1301 NUJ0011-01 6.44 5.00 11J1301 NUJ0011-02 4.82 5.00	Batch Lab Number Extracted Extract Vol Date EPA 8270D 11J0015 NUJ0011-01 30.30 1.00 10/01/11 11:45 11J0015 NUJ0011-02 30.53 1.00 10/01/11 11:45 11J0015 NUJ0011-03 30.09 1.00 10/01/11 11:45 EPA Method 8260B 11J1301 NUJ0011-01 6.44 5.00 09/27/11 11:15 11J1301 NUJ0011-02 4.82 5.00 09/27/11 12:00	Batch Lab Number Extracted Extract Vol Date Analyst EPA 8270D 11J0015 NUJ0011-01 30.30 1.00 10/01/11 11:45 AMJ 11J0015 NUJ0011-02 30.53 1.00 10/01/11 11:45 AMJ 11J0015 NUJ0011-03 30.09 1.00 10/01/11 11:45 AMJ EPA Method 8260B IJJ1301 NUJ0011-01 6.44 5.00 09/27/11 11:15 AAN 11J1301 NUJ0011-02 4.82 5.00 09/27/11 12:00 AAN	





10179 Highway 78 Ladson, SC 29456 Tom McElwee

Attn

Work Order: NUJ0011

Project Name: Laurel Bay Housing Project

Project Number: [none

Received: 09/30/11 08:15

PROJECT QUALITY CONTROL DATA Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by	EPA Method 8260B					
11J1301-BLK1						
Benzene	< 0.00110		ing/kg wet	11J1301	11J1301-BLK1	10/06/11 10:31
Ethylbenzene	< 0.00110		mg/kg wet	11J1301	11J1301-BLK1	10/06/11 10:31
Naphthalene	< 0.00250		mg/kg wet	11J1301	11J1301-BLK1	10/06/11 10:31
Toluene	< 0.00110		mg/kg wet	11J1301	11J1301-BLK1	10/06/11 10:31
Xylenes, total	< 0.00250		mg/kg wet	1111301	11J1301-BLK1	10/06/11 10:31
urrogate: 1,2-Dichloroethane-d4	97%			1111301	11J1301-BLK1	10/06/11 10:31
urragate: Dibramofluoromethane	106%			1131301	11J1301-BLK1	10/06/11 10:31
urrogate: Toluene-d8	93%			1111301	11J1301-BLK1	10/06/11 10:31
urrogate: 4-Bromoffuorobenzene	95%			1131301	11J1301-BLK1	10/06/11 10:31
1J1301-BLK2						
Benzene	< 0.0550		mg/kg wet	1131301	1111301-BLK2	10/06/11 11:02
Ethylbenzene	< 0.0550		mg/kg wet	11J1301	1JJ1301-BLK2	10/06/11 11:02
Naphthalene	< 0.125		mg/kg wet	1111301	11J1301-BLK2	10/06/11 11:02
Toluene	< 0.0550		mg/kg wet	11J1301	11J130I-BLK2	10/06/11 11:02
Xylenes, total	< 0.125		mg/kg wet	11J1301	11J1301-BLK2	10/06/11 11:02
urrogate: 1,2-Dichloroethane-d4	99%			11J1301	11J1301-BLK2	10/06/11 11:02
urrogate: Dibromofluoromethane	107%			11J1301	11J1301-BLK2	10/06/11 11:02
urrogate: Toluene-d8	91%			11J1301	11J1301-BLK2	10/06/11 11:02
urrogate: 4-Bromofluorobenzene	96%			1131301	11J1301-BLK2	10/06/11 11:02
Polyaromatic Hydrocarbons by F	EPA 8270D					
1J0015-BLK1						
Acenaphthene	< 0.0340		mg/kg wet	11J0015	11J0015-BLK1	10/01/11 22:40
Acenaphthylene	< 0.0340		ing/kg wet	11J0015	11J0015-BLK1	10/01/11 22:40
Anthracene	< 0.0340		mg/kg wet	1130015	11J0015-BLK1	10/01/11 22:40
Benzo (a) anthracene	< 0.0340		mg/kg wet	1130015	11J0015-BLK1	10/01/11 22:40
Benzo (a) pyrene	< 0.0340		mg/kg wet	11J0015	11J0015-BLK1	10/01/11 22:40
Benzo (b) fluoranthene	< 0.0340		mg/kg wet	1130015	11J0015-BLK1	10/01/11 22:40
Benzo (g,h,i) perylene	< 0.0340		mg/kg wet	11J0015	11J0015-BLK1	10/01/11 22:40
Benzo (k) fluoranthene	< 0.0340		mg/kg wet	1110015	11J0015-BLK1	10/01/11 22:40
Chrysene	< 0.0340		mg/kg wer	11J0015	11J0015-BLK1	10/01/11 22:40
Dibenz (a,h) anthracene	< 0.0340		mg/kg wer	11J0015	11J0015-BLK1	10/01/11 22:40
Fluoranthene	< 0.0340		mg/kg wet	11,0015	11J0015-BLK1	10/01/11 22:40
luorene.	< 0.0340		mg/kg wet	11J0015	11J0015-BLK1	10/01/11 22:40
ndeno (1,2,3-cd) pyrene	< 0.0340		mg/kg wet	11J0015	11J0015-BLK1	10/01/11 22:40
Naphthalene	< 0.0340		mg/kg wet	11J0015	11J0015-BLK1	10/01/11 22:40
Phenanthrene	< 0.0340		mg/kg wet	1130015	11J0015-BLK1	10/01/11 22:40
Pyrene	< 0.0340		mg/kg wet	11J0015	11J0015-BLK1	10/01/11 22:40
Fresh					11J0015-BLK1	10/01/11 22:40
1-Methylnaphthalene	< 0.0340		ing/kg wet	1110015	1130013-DER1	10/01/11 22:40



NUJ0011

Laurel Bay Housing Project



Client EEG - Small Business Group, Inc (2449)

10179 Highway 78 Ladson, SC 29456

Tom McElwee

Attn

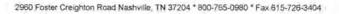
Work Order: Project Name:

[none] Project Number:

09/30/11 08:15 Received:

PROJECT QUALITY CONTROL DATA Blank - Cont.

Analyte	Blank Value	0	Units	O.C. Batch	Lab Number	Analyzed Date/Time
		8	Citto	Q.c. Dateir	Lab Ivalitoei	
Polyaromatic Hydrocarbons by	y EPA 8270D					
11J0015-BLK1						
Surrogate: Terphenyl-d14	66%			11J0015	11J0015-BLK1	10/01/11 22:40
Surrogate: 2-Fluorohiphenyl	62%			11J0015	11J0015-BLK1	10/01/11 22:40
Surrogate: Nitrobenzene-d5	57%			11J0015	11J0015-BLK1	10/01/11 22:40





EEG - Small Business Group, Inc. (2449) Client

10179 Highway 78 Ladson, SC 29456

Attn

Tom McElwee

NUJ0011 Work Order.

Project Name:

Laurel Bay Housing Project

[none] Project Number:

09/30/11 08:15 Received:

PROJECT QUALITY CONTROL DATA

Duplicate

Analyte	Ong. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	% Rec.	Analyzed Date/Time
General Chemistry Parameters										
11J0811-DUP1										
% Dry Solids	89.6	88.4		9/6	1	20	1130811	NUI3711-01		10/06/11 11:13





10179 Highway 78 Ladson, SC 29456

Tom McElwee

Attn

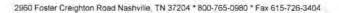
Work Order: NUJ0011

Project Name: Laurel Bay Housing Project

Project Number: [none] Received: 09/30/11 08:15

PROJECT QUALITY CONTROL DATA LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by El	PA Method 8260B							
11J1301-BS1								
Benzene	50.0	51.3		ug/kg	103%	75 - 127	1111301	10/06/11 09:0
Ethylbenzene	50,0	52.8		ug/kg	106%	80 - 134	1111301	10/06/11 09:0
Naphthalene	50.0	46.8		ug/kg	94%	69 - 150	1111301	10/06/11 09:0
Toluene	50.0	50.6		ug/kg	101%	80 - 132	1131301	10/06/11 09:0
Xylenes, total	150	160		ug/kg	107%	80 - 137	1111301	10/06/11 09:0
Surrogate: 1,2-Dichloroethane-d4	50.0	52.7			105%	70 - 130	1111301	10/06/11 09:0
Surrogate: Dibromofluoromethane	50.0	55.7			111%	70 - 130	1111301	10/06/11 09:0
Surrogate: Toluene-d8	50.0	46.8			94%	70 - 130	1111301	10/06/11 09:0
Surrogate: 4-Bromofluorobenzene	50.0	47.0			94%	70 - 130	1131301	10/06/11 09:0
Polyaromatic Hydrocarbons by EP	A 8270D							
11J0015-BS1								
Acenaphthene	1.67	1.20		mg/kg wet	72%	36 - 120	11J0015	10/01/11 19:5
Acenaphthylene	1.67	1.14		mg/kg wet	68%	38 - 120	11J0015	10/01/11 19:5
Anthracene	1.67	1.25		mg/kg wet	75%	46 - 124	1110015	10/01/11 19:5
Benzo (a) anthracene	1.67	1.18		mg/kg wet	71%	45 - 120	1130015	10/01/11 19:5
Benzo (a) pyrene	1,67	1.27		mg/kg wet	76%	45 - 120	1130015	10/01/11 19:5
Benzo (b) fluoranthene	1.67	1.10		mg/kg wet	66%	42 - 120	11J0015	10/01/11 19:5
Benzo (g,h,i) perylene	1.67	1.23		mg/kg wet	74%	38 - 120	1110015	10/01/11 19:5
Benzo (k) fluoranthene	1.67	1.27		mg/kg wet	76%	42 - 120	1130015	10/01/11 19:54
Chrysene	1.67	1,16		mg/kg wer	70%	43 - 120	11J0015	10/01/11 19/5
Dibenz (a,h) anthracene	1.67	1,24		mg/kg wet	75%	32 - 128	[1J0015	10/01/11 19:5
Fluoranthene	1,67	1.20		mg/kg wet	72%	46 - 120	11J0015	10/01/11 19:5
Fluorene	1,67	1.18		mg/kg wet	71%	42 - 120	11J0015	10/01/11 19:5
Indeno (1,2,3-cd) pyrene	1.67	1.23		mg/kg wet	74%	41 - 121	1110015	10/01/11 19:5
Naphthalene	1.67	1.24		mg/kg wet	74%	32 - 120	11J0015	10/01/11 19:5
Phenanthrene	1.67	1.24		mg/kg wet	74%	45 - 120	1110015	10/01/11 19:5
Pyrene	1.67	1.14		mg/kg wet	68%	43 - 120	1110015	10/01/11 19:5
1-Methylnaphthalene	1.67	0.915		mg/kg wet	55%	32 - 120	1130015	10/01/11 19:5
2-Methylnaphthalene	1.67	1.07		mg/kg wer	64%	28 - 120	1130015	10/01/11 19:5
Surrogate: Terphenyl-d14	1,67	1.12		200	67%	18 - 120	1110015	10/01/11 19:5
Surrogate: 2-Fluorobiphenyl	1.67	1.02			61%	14 - 120	11J0015	10/01/11 19:5
Surrogate: Nitrobenzene-d5	1.67	0.954			57%	17 - 120	1110015	10/01/11 19:5





10179 Highway 78 Ladson, SC 29456 Tom McElwee

Attn

Work Order NUJ0011

Project Name:

Laurel Bay Housing Project

Project Number [none]

Received, 09/30/11 08:15

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
Volatile Organic Compounds by	EPA Method 8	3260B										
11J1301-BSD1												
Benzene		51.5		ug/kg	50.0	103%	75 - 127	0.4	50	1111301		10/06/11 09:31
Ethylbenzene		52.5		ug/kg	50.0	105%	80 - 134	0.5	50	1111301		10/06/11 09:31
Naphthalene		46.0		ug/kg	50.0	92%	69 - 150	2	50	11J1301		10/06/11 09:31
Toluene		51.1		ug/kg	50.0	102%	80 - 132	1	50	11J1301		10/06/11 09:31
Xylenes, total		160		ug/kg	150	106%	80 - 137	0.4	50	11J1301		10/06/11 09:31
Surrogate: 1,2-Dichloroethane-d4		52.7		ug/kg	50.0	105%	70 - 130			11J1301		10/06/11 09:31
Surrogate: Dibromofluoromethane		55.8		ug/kg	50.0	112%	70 - 130			11J1301		10/06/11 09:31
Surrogate: Toluene-d8		47.6		ug/kg	50.0	95%	70 - 130			11J1301		10/06/11 09:31
Surrogate: 4-Bromofluorobenzene		46.1		ug/kg	50.0	92%	70 - 130			11J1301		10/06/11 09:31



10179 Highway 78 Ladson, SC 29456

Tom McElwee

Attn

Work Order: NUJ0011

Project Name: Laurel Bay Housing Project

Project Number: [none]

Received: 09/30/11 08:15

PROJECT QUALITY CONTROL DATA Matrix Spike

Second S	Analyte	Ong. Val.	MS Val	Q	Umits	Spike Conc	% Rec	Target Range	Batch	Sample Spiked	Analyzed Date/Time
	Volatile Organic Compounds by	EPA Method 826	0B								
Signature Sign	[19] [19] [19] [19] [19] [19] [19] [19]										
No	Benzene	ND	3,05		mg/kg wet	2.32	131%	31 - 143	1111301		10/06/11 19:35
Toluene ND 2.89 mgkg wel 2.32 124% 30-155 11J130 NU10196-108E 1006/1 19 Xylenes, total ND 8.95 mgkg wel 6.97 128% 25-162 11J130 NU10196-108E 1006/1 19 Sigrraguie JDischdorochame-4/ 52.8 ug/kg 50.0 106% 70-130 11J130 NU10196-108E 1006/1 19 Sigrraguie Discombiharomathame 53.4 ug/kg 50.0 107% 70-130 11J130 NU10196-108E 1006/1 19 Sigrraguie Discombiharomathame 53.4 ug/kg 50.0 95% 70-130 11J130 NU10196-108E 1006/1 19 Sigrraguie Discombiharomathame 53.4 ug/kg 50.0 95% 70-130 11J130 NU10196-108E 1006/1 19 Sigrraguie Discombiharomathame 53.4 ug/kg 50.0 95% 70-130 11J130 NU10196-108E 1006/1 19 Sigrraguie Discombiharomathame 53.4 ug/kg 50.0 95% 70-130 11J130 NU10196-108E 1006/1 19 Sigrraguie Discombiharomathame 53.4 ug/kg 50.0 95% 70-130 11J130 NU10196-108E 1006/1 19 2 Polyaromatic Hydrocarbons by EPA 8270D 11J10015-MS1 Accomplathlene ND 1.34 mgkg/dy 198 65% 19-120 11J1015 NU10011-0 1001/1 23 Accomplathlene ND 1.35 mgkg/dy 198 65% 19-120 11J1015 NU10011-0 1001/1 23 Amhacene ND 1.38 mgkg/dy 198 65% 28-120 11J1015 NU10011-0 1001/1 23 Benzo (a) partnece ND 1.39 mg/kg/dy 198 65% 28-120 11J1015 NU10011-0 1001/1 23 Benzo (a) partnece ND 1.39 mg/kg/dy 198 65% 28-120 11J1015 NU10011-0 1001/1 23 Benzo (a) partnece ND 1.31 mg/kg/dy 198 65% 28-120 11J1015 NU10011-0 1001/1 23 Benzo (a) partnece ND 1.31 mg/kg/dy 198 65% 28-120 11J1015 NU10011-0 1001/1 23 Benzo (a) partnece ND 1.31 mg/kg/dy 198 65% 28-120 11J1015 NU10011-0 1001/1 23 Benzo (a) partnece ND 1.36 mg/kg/dy 198 65% 28-120 11J1015 NU10011-0 1001/1 23 Benzo (a) partnece ND 1.36 mg/kg/dy 198 65% 10-120 11J1015 NU10011-0 1001/1 23 Benzo (b) Benzo (a) partnece ND 1.36 mg/kg/dy 198 65% 28-120 11J1015 NU10011-0 1001/1 23 Benzo (b) Benzo (a) partnece ND 1.36 mg/kg/dy 198 65% 10-120 11J1015 NU10011-0 1001/1 23 Benzo (b) Benzo (a) partnece ND 1.36 mg/kg/dy 198 65% 10-120 11J1015 NU10011-0 1001/1 23 Benzo (b) Benzo (a) partnece ND 1.36 mg/kg/dy 198 65% 10-120 11J1015 NU10011-0 1001/1 23 Benzo (b) Benzo (a) partnece ND 1.36 mg/kg/dy 198 65% 10-120 11J1015 NU	Ethylbenzene	ND	2.99		mg/kg wet	2.32	129%	23 - 161	11J1301		10/06/11 19:35
Ng	Naphthalene	ND	2.35		mg/kg wet	2,32	101%	10 - 176	11J1301		10/06/11 19:35
Surregate JDichlorosthane-dt 52.8 19/8c 50.0 106% 70-130 111301 NUJ010-10RE 10/06/11 19 2 2 2 2 2 2 2 2 2	Toluene	ND	2,89		mg/kg wet	2.32	124%	30 - 155	11J1301		10/06/11 19:35
Surregate: Dibranafluaramethane	Xylenes, total	ND -	8.95		mg/kg wet	6.97	128%	25 - 162	1111301	NUJ0190-10RE	10/06/11 19:35
Surrogane: TolumendS	Surrogate: 1,2-Dichloroethane-d4		52.8		ug/kg	50.0	106%	70 - 130	1111301		10/06/11 19:35
Surrogate: + Bromoflinorobenzene	Surrogate: Dibromofluoromethane		53.4		ug/kg	50.0	107%	70 - 130	11J1301		10/06/11 19:35
Polyaromatic Hydrocarbons by EPA 8270D 11J0015-MS1 Acenaphth/ene ND 1.34 mg/kg dry 1.98 68% 19-120 11J0015 NUJ0011-01 1001/11 23 Acenaphth/ene ND 1.38 mg/kg dry 1.98 64% 25-120 11J0015 NUJ0011-01 1001/11 23 Anthracene ND 1.32 mg/kg dry 1.98 67% 23-120 11J0015 NUJ0011-01 1001/11 23 Benzo (a) anthracene ND 1.39 mg/kg dry 1.98 67% 23-120 11J0015 NUJ0011-01 1001/11 23 Benzo (a) pyrene ND 1.39 mg/kg dry 1.98 51% 12-133 11J0015 NUJ0011-01 1001/11 23 Benzo (b) fluoramthene ND 1.01 mg/kg dry 1.98 51% 12-133 11J0015 NUJ0011-01 1001/11 23 Benzo (b) fluoramthene ND 1.01 mg/kg dry 1.98 51% 12-133 11J0015 NUJ0011-01 1001/11 23 Benzo (b) fluoramthene ND 1.31 mg/kg dry 1.98 59% 28-120 11J0015 NUJ0011-01 1001/11 23 Benzo (b) fluoramthene ND 1.31 mg/kg dry 1.98 59% 28-120 11J0015 NUJ0011-01 1001/11 23 Benzo (b) fluoramthene ND 1.31 mg/kg dry 1.98 69% 28-120 11J0015 NUJ0011-01 1001/11 23 Dibenz (a,h) anthracene ND 1.36 mg/kg dry 1.98 69% 28-120 11J0015 NUJ0011-01 1001/11 23 Dibenz (a,h) anthracene ND 1.36 mg/kg dry 1.98 69% 12-128 11J0015 NUJ0011-01 1001/11 23 Dibenz (a,h) anthracene ND 1.35 mg/kg dry 1.98 69% 12-128 11J0015 NUJ0011-01 1001/11 23 Dibenz (a,h) anthracene ND 1.35 mg/kg dry 1.98 69% 12-128 11J0015 NUJ0011-01 1001/11 23 Dibenz (a,h) anthracene ND 1.35 mg/kg dry 1.98 69% 12-128 11J0015 NUJ0011-01 1001/11 23 Dibenz (a,h) anthracene ND 1.35 mg/kg dry 1.98 69% 12-128 11J0015 NUJ0011-01 1001/11 23 Dibenz (a,h) anthracene ND 1.35 mg/kg dry 1.98 69% 10-120 11J0015 NUJ0011-01 1001/11 23 Dibenz (a,h) anthracene ND 1.35 mg/kg dry 1.98 69% 10-120 11J0015 NUJ0011-01 1001/11 23 Dibenz (a,h) anthracene ND 1.36 mg/kg dry 1.98 69% 10-120 11J0015 NUJ0011-01 1001/11 23 Dibenz (a,h) anthracene ND 1.35 mg/kg dry 1.98 69% 10-120 11J0015 NUJ0011-01 1001/11 23 Dibenz (a,h) anthracene ND 1.36 mg/kg dry 1.98 69% 10-120 11J0015 NUJ0011-01 1001/11 23 Dibenz (a,h) anthracene ND 1.36 mg/kg dry 1.98 69% 10-120 11J0015 NUJ0011-01 1001/11 23 Dibenz (a,h) anthracene ND 1.36 mg/kg dry 1.98 69% 10-120 11J0015 NUJ0011-01 1001/11 23 Dibenz (a,h) anth	Surrogate: Toluene-d8		46.8		ug/kg	50.0	94%	70 - 130	11/1301		10/06/11 19:35
Access ND 1.34 mg/kg dry 1.98 68% 1.9 - 1.20 11.0015 NU.0011-01 10.01/11 2.3	Surrogate: 4-Bromofluorobenzene		47.3		ug/kg	50.0	95%	70 - 130	1(J1301		10/06/11 19:35
Acenaphthiene ND 1.34 mg/kg dry 1.98 68% 19-120 11J0015 NUJ0011-01 10/01/11 23 Acenaphthylene ND 1.26 mg/kg dry 1.98 64% 25-120 11J0015 NUJ0011-01 10/01/11 23 Amhracene ND 1.38 mg/kg dry 1.98 70% 28-125 11J0015 NUJ0011-01 10/01/11 23 Benzo (a) anthracene ND 1.32 mg/kg dry 1.98 67% 23-120 11J0015 NUJ0011-01 10/01/11 23 Benzo (a) pyrene ND 1.39 mg/kg dry 1.98 70% 15-128 11J0015 NUJ0011-01 10/01/11 23 Benzo (b) fluoranthene ND 1.01 mg/kg dry 1.98 51% 12-133 11J0015 NUJ0011-01 10/01/11 23 Benzo (b) fluoranthene ND 1.29 mg/kg dry 1.98 55% 22-120 11J0015 NUJ0011-01 10/01/11 23 Benzo (b) fluoranthene ND 1.36 mg/kg dry 1.98 59% 28-120 11J0015 NUJ0011-01 10/01/11 23 Chrysene ND 1.36 mg/kg dry 1.98 66% 20-120 11J0015 NUJ0011-01 10/01/11 23 Dibenz (a,h) anthracene ND 1.36 mg/kg dry 1.98 66% 10-128 11J0015 NUJ0011-01 10/01/11 23 Indeno (1,2.3-ed) pyrene ND 1.33 mg/kg dry 1.98 66% 20-120 11J0015 NUJ0011-01 10/01/11 23 Indeno (1,2.3-ed) pyrene ND 1.36 mg/kg dry 1.98 69% 10-120 11J0015 NUJ0011-01 10/01/11 23 Pyrene ND 1.37 mg/kg dry 1.98 69% 21-122 11J0015 NUJ0011-01 10/01/11 23 Pyrene ND 1.36 mg/kg dry 1.98 69% 21-122 11J0015 NUJ0011-01 10/01/11 23 Pyrene ND 1.37 mg/kg dry 1.98 69% 21-122 11J0015 NUJ0011-01 10/01/11 23 Pyrene ND 1.36 mg/kg dry 1.98 69% 21-122 11J0015 NUJ0011-01 10/01/11 23 Pyrene ND 1.36 mg/kg dry 1.98 69% 21-122 11J0015 NUJ0011-01 10/01/11 23 Pyrene ND 1.36 mg/kg dry 1.98 69% 21-122 11J0015 NUJ0011-01 10/01/11 23 Pyrene ND 1.36 mg/kg dry 1.98 69% 21-122 11J0015 NUJ0011-01 10/01/11 23 Pyrene ND 1.36 mg/kg dry 1.98 69% 21-122 11J0015 NUJ0011-01 10/01/11 23 Pyrene ND 1.20 mg/kg dry 1.98 69% 21-122 11J0015 NUJ0011-01 10/01/11 23 Pyrene ND 1.20 mg/kg dry 1.98 69% 21-122 11J0015 NUJ0011-01 10/01/11 23 Pyrene ND 1.20 mg/kg dry 1.98 69% 21-122 11J0015 NUJ0011-01 10/01/11 23 Pyrene ND 1.20 mg/kg dry 1.98 69% 21-122 11J0015 NUJ0011-01 10/01/11 23 Pyrene ND 1.20 mg/kg dry 1.98 69% 21-122 11J0015 NUJ0011-01 10/01/11 23 Pyrene ND 1.20 mg/kg dry 1.98 61% 18-120 11J0015 NUJ0011-01 10/01/11 23	Polyaromatic Hydrocarbons by F	EPA 8270D									
Aceaaphthylene ND 1.26 urg/kg dry 1.98 64% 25-120 1110015 NUJ0011-01 10/01/11 23 Anthracene ND 1.38 mg/kg dry 1.98 70% 28-125 1130015 NUJ0011-01 10/01/11 23 Benzo (a) anthracene ND 1.32 mg/kg dry 1.98 67% 23-120 1110015 NUJ0011-01 10/01/11 23 Benzo (a) pyrene ND 1.39 mg/kg dry 1.98 51% 12-133 1110015 NUJ0011-01 10/01/11 23 Benzo (b) fluoranthene ND 1.01 mg/kg dry 1.98 51% 12-133 1130015 NUJ0011-01 10/01/11 23 Benzo (b) fluoranthene ND 1.29 mg/kg dry 1.98 59% 28-120 1110015 NUJ0011-01 10/01/11 23 Benzo (k) fluoranthene ND 1.16 mg/kg dry 1.98 59% 28-120 1110015 NUJ0011-01 10/01/11 23 Benzo (k) fluoranthene ND 1.31 mg/kg dry 1.98 66% 26-120 1110015 NUJ0011-01 10/01/11 23 Dibenz (a,h) anthracene ND 1.36 mg/kg dry 1.98 66% 26-120 1110015 NUJ0011-01 10/01/11 23 Dibenz (a,h) anthracene ND 1.36 mg/kg dry 1.98 69% 12-128 1110015 NUJ0011-01 10/01/11 23 Indeno (1,2.3-cd) pyrene ND 1.35 mg/kg dry 1.98 69% 10-143 1110015 NUJ0011-01 10/01/11 23 Indeno (1,2.3-cd) pyrene ND 1.37 mg/kg dry 1.98 69% 10-143 1110015 NUJ0011-01 10/01/11 23 Pyrene ND 1.37 mg/kg dry 1.98 69% 10-120 1110015 NUJ0011-01 10/01/11 23 Nuj0011-01 10/01/11	11J0015-MS1										
Anthracee ND 1.38 mg/kg dry 1.98 70% 28 - 125 113015 NUJ0011-01 10/01/11 23 Benzo (a) anthracene ND 1.32 mg/kg dry 1.98 67% 23 - 120 113015 NUJ0011-01 10/01/11 23 Benzo (a) pyrene ND 1.39 mg/kg dry 1.98 51% 12 - 133 113015 NUJ0011-01 10/01/11 23 Benzo (b) fluoranthene ND 1.01 mg/kg dry 1.98 51% 12 - 133 1130015 NUJ0011-01 10/01/11 23 Benzo (g,h.i) perylene ND 1.29 mg/kg dry 1.98 59% 28 - 120 1130015 NUJ0011-01 10/01/11 23 Benzo (k) fluoranthene ND 1.16 mg/kg dry 1.98 59% 28 - 120 1130015 NUJ0011-01 10/01/11 23 Chrysene ND 1.31 mg/kg dry 1.98 66% 20 - 120 1130015 NUJ0011-01 10/01/11 23 Dibenz (a,h) anthracene ND 1.36 mg/kg dry 1.98 69% 12 - 128 1130015 NUJ0011-01 10/01/11 23 Fluorene ND 1.35 mg/kg dry 1.98 69% 10 - 143 1130015 NUJ0011-01 10/01/11 23 Indeno (1,2,3-ed) pyrene ND 1.35 mg/kg dry 1.98 68% 20 - 120 1130015 NUJ0011-01 10/01/11 23 Nujn011-01 10/01/11 23 Pyrene ND 1.36 mg/kg dry 1.98 69% 10 - 120 1130015 NUJ0011-01 10/01/11 23 Nujn011-01 10/01/	Acenaphthene	ND	1,34		mg/kg dry	1.98	68%	19 - 120	1110015	NUJ0011-01	10/01/11 23:01
Benzo (a) anthracene ND 1.32 mg/kg dry 1.98 67% 23-120 1110015 NU30011-01 1001/11 23 Benzo (a) pyrene ND 1.39 mg/kg dry 1.98 70% 15-128 1110015 NU30011-01 1001/11 23 Benzo (b) fluoranthene ND 1.01 mg/kg dry 1.98 51% 12-133 1130015 NU30011-01 1001/11 23 Benzo (b) fluoranthene ND 1.29 mg/kg dry 1.98 55% 22-120 1130015 NU30011-01 1001/11 23 Benzo (k) fluoranthene ND 1.16 mg/kg dry 1.98 69% 28-120 1130015 NU30011-01 1001/11 23 Chrysene ND 1.36 mg/kg dry 1.98 66% 20-120 1130015 NU30011-01 1001/11 23 Dibenz (a,b) anthracene ND 1.36 mg/kg dry 1.98 69% 12-128 1130015 NU30011-01 1001/11 23	Acenaphthylene	ND	1.26		mg/kg dry	1.98	64%	25 - 120	1110015	NUJ0011-01	10/01/11 23:01
Benzo (a) pyrene ND 1.39 mg/kg dry 1.98 70% 15-128 11J0015 NUJ0011-01 10/01/11 23 Benzo (b) fluoranthene ND 1.01 mg/kg dry 1.98 51% 12-133 11J0015 NUJ0011-01 10/01/11 23 Benzo (b) fluoranthene ND 1.29 mg/kg dry 1.98 55% 22-120 11J0015 NUJ0011-01 10/01/11 23 Benzo (k) fluoranthene ND 1.16 mg/kg dry 1.98 59% 28-120 11J0015 NUJ0011-01 10/01/11 23 Chrysene ND 1.31 mg/kg dry 1.98 66% 20-120 11J0015 NUJ0011-01 10/01/11 23 Dibenz (a,h) anthracene ND 1.36 mg/kg dry 1.98 66% 12-128 11J0015 NUJ0011-01 10/01/11 23 Fluoranthene ND 1.36 mg/kg dry 1.98 66% 10-143 11J0015 NUJ0011-01 10/01/11 23 Fluoranthene ND 1.35 mg/kg dry 1.98 68% 20-120 11J0015 NUJ0011-01 10/01/11 23 Indeno (1,2,3-cd) pyrene ND 1.33 mg/kg dry 1.98 66% 22-121 11J0015 NUJ0011-01 10/01/11 23 Naphtalene ND 1.37 mg/kg dry 1.98 66% 10-120 11J0015 NUJ0011-01 10/01/11 23 Pyrene ND 1.22 mg/kg dry 1.98 69% 10-120 11J0015 NUJ0011-01 10/01/11 23 Pyrene ND 1.22 mg/kg dry 1.98 69% 21-122 11J0015 NUJ0011-01 10/01/11 23 1-Methylnaphthalene ND 1.02 mg/kg dry 1.98 69% 10-120 11J0015 NUJ0011-01 10/01/11 23 2-Methylnaphthalene ND 1.20 mg/kg dry 1.98 61% 13-120 11J0015 NUJ0011-01 10/01/11 23 2-Methylnaphthalene ND 1.20 mg/kg dry 1.98 61% 13-120 11J0015 NUJ0011-01 10/01/11 23 2-Methylnaphthalene ND 1.20 mg/kg dry 1.98 61% 13-120 11J0015 NUJ0011-01 10/01/11 23 2-Methylnaphthalene ND 1.20 mg/kg dry 1.98 61% 13-120 11J0015 NUJ0011-01 10/01/11 23 2-Methylnaphthalene ND 1.20 mg/kg dry 1.98 61% 13-120 11J0015 NUJ0011-01 10/01/11 23 2-Methylnaphthalene ND 1.20 mg/kg dry 1.98 61% 18-120 11J0015 NUJ0011-01 10/01/11 23 2-Methylnaphthalene ND 1.20 mg/kg dry 1.98 61% 18-120 11J0015 NUJ0011-01 10/01/11 23 2-Methylnaphthalene ND 1.20 mg/kg dry 1.98 61% 18-120 11J0015 NUJ0011-01 10/01/11 23 2-Methylnaphthalene ND 1.20 mg/kg dry 1.98 61% 18-120 11J0015 NUJ0011-01 10/01/11 23 2-Methylnaphthalene ND 1.20 mg/kg dry 1.98 61% 18-120 11J0015 NUJ0011-01 10/01/11 23 2-Methylnaphthalene ND 1.20 mg/kg dry 1.98 61% 18-120 11J0015 NUJ0011-01 10/01/11 23	Anthracene	ND	1.38		mg/kg dry	1.98	70%	28 - 125	1130015	NUJ0011-01	10/01/11 23:0
Benzo (b) fluoranthene ND 1.01 mg/kg dry 1.98 51% 12-133 11J0015 NUJ0011-01 10/01/11 23 Benzo (g,h,i) perylene ND 1.29 mg/kg dry 1.98 65% 22-120 11J0015 NUJ0011-01 10/01/11 23 Benzo (k) fluoranthene ND 1.16 mg/kg dry 1.98 59% 28-120 11J0015 NUJ0011-01 10/01/11 23 Chrysene ND 1.31 mg/kg dry 1.98 66% 20-120 11J0015 NUJ0011-01 10/01/11 23 Dibenz (a,h) anthracene ND 1.36 mg/kg dry 1.98 66% 20-120 11J0015 NUJ0011-01 10/01/11 23 Fluoranthene ND 1.35 mg/kg dry 1.98 66% 20-120 11J0015 NUJ0011-01 10/01/11 23 Fluorene ND 1.35 mg/kg dry 1.98 66% 20-120 11J0015 NUJ0011-01 10/01/11 23 Indeno (1,2,3-cd) pyrene ND 1.37 mg/kg dry 1.98 66% 22-121 11J0015 NUJ0011-01 10/01/11 23 Naphthalene ND 1.36 mg/kg dry 1.98 69% 10-120 11J0015 NUJ0011-01 10/01/11 23 Phenanthrene ND 1.36 mg/kg dry 1.98 69% 21-122 11J0015 NUJ0011-01 10/01/11 23 Phenanthrene ND 1.36 mg/kg dry 1.98 69% 21-122 11J0015 NUJ0011-01 10/01/11 23 Pyrene ND 1.22 mg/kg dry 1.98 69% 21-122 11J0015 NUJ0011-01 10/01/11 23 Pyrene ND 1.22 mg/kg dry 1.98 62% 20-123 11J0015 NUJ0011-01 10/01/11 23 Pyrene ND 1.20 mg/kg dry 1.98 52% 10-120 11J0015 NUJ0011-01 10/01/11 23 Pyrene ND 1.20 mg/kg dry 1.98 61% 13-120 11J0015 NUJ0011-01 10/01/11 23 Pyrene ND 1.20 mg/kg dry 1.98 61% 13-120 11J0015 NUJ0011-01 10/01/11 23 Pyrene ND 1.20 mg/kg dry 1.98 61% 13-120 11J0015 NUJ0011-01 10/01/11 23 Pyrene ND 1.20 mg/kg dry 1.98 61% 13-120 11J0015 NUJ0011-01 10/01/11 23 Pyrene ND 1.20 mg/kg dry 1.98 61% 18-120 11J0015 NUJ0011-01 10/01/11 23 Pyrene ND 1.20 mg/kg dry 1.98 61% 18-120 11J0015 NUJ0011-01 10/01/11 23 Pyrene ND 1.20 mg/kg dry 1.98 61% 18-120 11J0015 NUJ0011-01 10/01/11 23 Pyrene ND 1.20 mg/kg dry 1.98 61% 18-120 11J0015 NUJ0011-01 10/01/11 23 Pyrene ND 1.20 mg/kg dry 1.98 61% 18-120 11J0015 NUJ0011-01 10/01/11 23	Benzo (a) anthracene	ND	1.32		mg/kg dry	1.98	67%	23 - 120	1130015	NUJ0011-01	10/01/11 23:0)
Benzo (g,h.i) perylene ND 1.29 mg/kg dry 1.98 65% 22 - 120 1130015 NUJ0011-01 10/01/11 23 Benzo (k) fluoranthene ND 1.16 mg/kg dry 1.98 59% 28 - 120 11J0015 NUJ0011-01 10/01/11 23 Chrysene ND 1.31 mg/kg dry 1.98 66% 20 - 120 11J0015 NUJ0011-01 10/01/11 23 Dibenz (a,h) anthracene ND 1.36 mg/kg dry 1.98 69% 12 - 128 11J0015 NUJ0011-01 10/01/11 23 Fluorene ND 1.36 mg/kg dry 1.98 69% 10 - 143 11J0015 NUJ0011-01 10/01/11 23 Fluorene ND 1.35 mg/kg dry 1.98 69% 20 - 120 11J0015 NUJ0011-01 10/01/11 23 Indeno (1,2,3-cd) pyrene ND 1.33 mg/kg dry 1.98 67% 22 - 121 11J0015 NUJ0011-01 10/01/11 23	Benzo (a) pyrene	ND	1.39		mg/kg dry	1,98	70%	15 - 128	11,0015	NUJ0011-01	10/01/11 23:01
Benzo (k) fluoranthene ND 1.16 mg/kg dry 1.98 59% 28 - 120 11J0015 NUJ0011-01 10/01/11 23 Chrysene ND 1.31 mg/kg dry 1.98 66% 20 - 120 11J0015 NUJ0011-01 10/01/11 23 Dibenz (a,h) anthracene ND 1.36 mg/kg dry 1.98 69% 12 - 128 11J0015 NUJ0011-01 10/01/11 23 Fluoranthene ND 1.36 mg/kg dry 1.98 69% 10 - 143 11J0015 NUJ0011-01 10/01/11 23 Fluorene ND 1.35 mg/kg dry 1.98 68% 20 - 120 11J0015 NUJ0011-01 10/01/11 23 Indeno (1,2,3-cd) pyrene ND 1.33 mg/kg dry 1.98 68% 20 - 120 11J0015 NUJ0011-01 10/01/11 23 Naphthalene ND 1.37 mg/kg dry 1.98 69% 10 - 120 11J0015 NUJ0011-01 10/01/11 23 <	Benzo (b) fluoranthene	ND	1.01		mg/kg dry	1.98	51%	12 - 133	1130015	NUJ0011-01	10/01/11 23:01
Chrysene: ND 1.31 mg/kg dry 1.98 66% 20 - 120 11J0015 NUJ0011-01 10/01/11 23 Dibenz (a,h) anthracene ND 1.36 mg/kg dry 1.98 69% 12 - 128 11J0015 NUJ0011-01 10/01/11 23 Fluoranthene ND 1.36 mg/kg dry 1.98 69% 10 - 143 11J0015 NUJ0011-01 10/01/11 23 Indeno (1,2,3-cd) pyrene ND 1.35 mg/kg dry 1.98 68% 20 - 120 11J0015 NUJ0011-01 10/01/11 23 Naphthalene ND 1.37 mg/kg dry 1.98 67% 22 - 121 11J0015 NUJ0011-01 10/01/11 23 Naphthalene ND 1.36 mg/kg dry 1.98 69% 10 - 120 11J0015 NUJ0011-01 10/01/11 23 Pyrene ND 1.36 mg/kg dry 1.98 69% 21 - 122 11J0015 NUJ0011-01 10/01/11 23 Pyrene ND 1.22 mg/kg dry 1.98 69% 20 - 123 11J0015 NUJ0011-01 10/01/11 23 I-Methylnaphthalene ND 1.02 mg/kg dry 1.98 62% 20 - 123 11J0015 NUJ0011-01 10/01/11 23 Pyrene ND 1.20 mg/kg dry 1.98 52% 10 - 120 11J0015 NUJ0011-01 10/01/11 23 I-Methylnaphthalene ND 1.20 mg/kg dry 1.98 61% 13 - 120 11J0015 NUJ0011-01 10/01/11 23 Pyrogate: 2-Fluorobiphenyl 1.14 mg/kg dry 1.98 61% 18 - 120 11J0015 NUJ0011-01 10/01/11 23 Surrogate: 2-Fluorobiphenyl	Benzo (g,h,i) perylene	ND	1.29		mg/kg dry	1.98	65%	22 - 120	1130015	NUJ0011-01	10/01/11 23:01
Dibenz (a,h) anthracene ND 1.36 mg/kg dry 1.98 69% 12 - 128 11J0015 NUJ0011-01 10/01/11 23 Fluoranthene ND 1.36 mg/kg dry 1.98 69% 10 - 143 11J0015 NUJ0011-01 10/01/11 23 Fluorene ND 1.35 mg/kg dry 1.98 68% 20 - 120 11J0015 NUJ0011-01 10/01/11 23 Indeno (1,2,3-cd) pyrene ND 1.33 mg/kg dry 1.98 67% 22 - 121 11J0015 NUJ0011-01 10/01/11 23 Naphthalene ND 1.37 mg/kg dry 1.98 69% 10 - 120 11J0015 NUJ0011-01 10/01/11 23 Phenanthrene ND 1.36 mg/kg dry 1.98 69% 21 - 122 11J0015 NUJ0011-01 10/01/11 23 Pyrene ND 1.22 mg/kg dry 1.98 62% 20 - 123 11J0015 NUJ0011-01 10/01/11 23 1-Methyln	Benzo (k) fluoranthene	ND	1.16		mg/kg dry	1.98	59%	28 - 120	11J0015	NUJ0011-01	10/01/11 23:0)
Fluoranthene ND 1.36 mg/kg dry 1.98 69% 10 - 143 11J0015 NUJ0011-01 10/01/11 23 11deno (1,2,3-cd) pyrene ND 1.35 mg/kg dry 1.98 68% 20 - 120 11J0015 NUJ0011-01 10/01/11 23 11deno (1,2,3-cd) pyrene ND 1.33 mg/kg dry 1.98 67% 22 - 121 11J0015 NUJ0011-01 10/01/11 23 Naphthalene ND 1.37 mg/kg dry 1.98 69% 10 - 120 11J0015 NUJ0011-01 10/01/11 23 Phenanthrene ND 1.36 mg/kg dry 1.98 69% 21 - 122 11J0015 NUJ0011-01 10/01/11 23 Pyrene ND 1.22 mg/kg dry 1.98 62% 20 - 123 11J0015 NUJ0011-01 10/01/11 23 1-Methylnaphthalene ND 1.02 mg/kg dry 1.98 52% 10 - 120 11J0015 NUJ0011-01 10/01/11 23 2-Methylnaphthalene ND 1.20 mg/kg dry 1.98 52% 10 - 120 11J0015 NUJ0011-01 10/01/11 23 2-Methylnaphthalene ND 1.20 mg/kg dry 1.98 52% 13 - 120 11J0015 NUJ0011-01 10/01/11 23 Surrogate Terphenyl-d14 121 mg/kg dry 1.98 61% 18 - 120 11J0015 NUJ0011-01 10/01/11 23 3 Surrogate Terphenyl-d14 mg/kg dry 1.98 57% 14 - 120 11J0015 NUJ0011-01 10/01/11 23 3 Surrogate 2-Fluorobiphenyl	Chrysene	ND	1.31		mg/kg dry	1.98	66%	20 - 120	11J0015	NUJ0011-01	10/01/11 23:01
Fluorene ND 1.35 mg/kg dry 1.98 68% 20 - 120 1130015 NUJ0011-01 10/01/11 23 Indeno (1,2,3-cd) pyrene ND 1.33 mg/kg dry 1.98 67% 22 - 121 1130015 NUJ0011-01 10/01/11 23 Naphthalene ND 1.37 mg/kg dry 1.98 69% 10 - 120 1130015 NUJ0011-01 10/01/11 23 Phenanthrene ND 1.36 mg/kg dry 1.98 69% 21 - 122 1130015 NUJ0011-01 10/01/11 23 Pyrene ND 1.22 mg/kg dry 1.98 62% 20 - 123 1130015 NUJ0011-01 10/01/11 23 I-Methylnaphthalene ND 1.02 mg/kg dry 1.98 52% 10 - 120 1130015 NUJ0011-01 10/01/11 23 2-Methylnaphthalene ND 1.20 mg/kg dry 1.98 52% 10 - 120 1130015 NUJ0011-01 10/01/11 23 Surrogate Terphenyl-d14 121 mg/kg dry 1.98 61% 18 - 120 1130015 NUJ0011-01 10/01/11 23 Surrogate: 2-Fluorobiphenyl 1.14 mg/kg dry 1.98 57% 14 - 120 1130015 NUJ0011-01 10/01/11 23	Dibenz (a,h) anthracene	ND	1.36		mg/kg dry	1.98	69%	12 - 128	11J0015	NUJ0011-01	10/01/11 23:01
Indeno (1,2,3-cd) pyrene ND 1.33 mg/kg dry 1.98 67% 22 - 121 11J0015 NUJ0011-01 10/01/11 23	Fluoranthene	ND	1.36		mg/kg dry	1.98	69%	10 - 143	11J0015	NUJ0011-01	10/01/11 23:01
Naphthalene ND 1.37 mg/kg dry 1.98 69% 10-120 11J0015 NUJ0011-01 10/01/11 23 Phenanthrene ND 1.36 mg/kg dry 1.98 69% 21-122 11J0015 NUJ0011-01 10/01/11 23 Pyrene ND 1.22 mg/kg dry 1.98 62% 20-123 11J0015 NUJ0011-01 10/01/11 23 1-Methylnaphthalene ND 1.02 mg/kg dry 1.98 52% 10-120 11J0015 NUJ0011-01 10/01/11 23 2-Methylnaphthalene ND 1.20 mg/kg dry 1.98 61% 13-120 11J0015 NUJ0011-01 10/01/11 23 Surrogate: Terphenyl-d14 1.21 mg/kg dry 1.98 61% 18-120 11J0015 NUJ0011-01 10/01/11 23 Surrogate: 2-Fluarobiphenyl 1.14 mg/kg dry 1.98 57% 14-120 11J0015 NUJ0011-01 10/01/11 23	Fluorene	ND	1.35		mg/kg dry	1.98	68%	20 - 120	1130015	NUJ0011-01	10/01/11 23:01
Phenanthrene ND 1.36 mg/kg dry 1.98 69% 21 - 122 11J0015 NUJ0011-01 10/01/11 23 Pyrene ND 1.22 mg/kg dry 1.98 62% 20 - 123 11J0015 NUJ0011-01 10/01/11 23 1-Methylnaphthalene ND 1.02 mg/kg dry 1.98 52% 10 - 120 11J0015 NUJ0011-01 10/01/11 23 2-Methylnaphthalene ND 1.20 mg/kg dry 1.98 61% 13 - 120 11J0015 NUJ0011-01 10/01/11 23 Surrogate Terphenyl-d14 1.21 mg/kg dry 1.98 61% 18 - 120 11J0015 NUJ0011-01 10/01/11 23 Surrogate: 2-Fluarobiphenyl 1.14 mg/kg dry 1.98 57% 14 - 120 11J0015 NUJ0011-01 10/01/11 23	Indeno (1,2,3-cd) pyrene	ND	1.33		mg/kg dry	1.98	67%	22 - 121	11,0015	NUJ0011-01	10/01/11 23:0
Pyrene ND 1.22 mg/kg dry 1.98 62% 20 - 123 11J0015 NUJ0011-01 10/01/11 23 1-Methylnaphthalene ND 1.02 mg/kg dry 1.98 52% 10 - 120 11J0015 NUJ0011-01 10/01/11 23 2-Methylnaphthalene ND 1.20 mg/kg dry 1.98 61% 13 - 120 11J0015 NUJ0011-01 10/01/11 23 Surrogate: Terphenyl-dl4 1.21 mg/kg dry 1.98 61% 18 - 120 11J0015 NUJ0011-01 10/01/11 23 Surrogate: 2-Fluarobiphenyl 1.14 mg/kg dry 1.98 57% 14 - 120 11J0015 NUJ0011-01 10/01/11 23	Naphthalene	ND	1.37		mg/kg dry	1.98	69%	10 - 120	11J0015	NUJ0011-01	10/01/11 23:0
1-Methylnaphthalene ND 1,02 mg/kg dry 1,98 52% 10 - 120 11J0015 NUJ0011-01 10/01/11 23 2-Methylnaphthalene ND 1,20 mg/kg dry 1,98 61% 13 - 120 11J0015 NUJ0011-01 10/01/11 23 Surrogate Terphenyl-d14 1,21 mg/kg dry 1,98 61% 18 - 120 11J0015 NUJ0011-01 10/01/11 23 Surrogate: 2-Fluarobiphenyl 1,14 mg/kg dry 1,98 57% 14 - 120 11J0015 NUJ0011-01 10/01/11 23	Phenanthrene	ND	1.36		mg/kg dry	1.98	69%	21 - 122	1120015	NUJ0011-01	10/01/11 23:0
2-Methylnaphthalene ND 1.20 mg/kg dry 1.98 61% 13 - 120 11J0015 NUJ0011-01 10/01/11 23 Surrogate: Terphenyl-dl4 1.21 mg/kg dry 1.98 61% 18 - 120 11J0015 NUJ0011-01 10/01/11 23 Surrogate: 2-Fluarobiphenyl 1.14 mg/kg dry 1.98 57% 14 - 120 11J0015 NUJ0011-01 10/01/11 23	Pyrene	ND	1.22		mg/kg dry	1.98	62%	20 - 123	1110015	NUJ0011-01	10/01/11 23:0
Surrogate: Terphenyl-dl4 1.21 mg/kg dry 1.98 61% 18 - 120 11J0015 NUJ0011-01 10/01/11 23 Surrogate: 2-Fluarobiphenyl 1.14 mg/kg dry 1.98 57% [4 - 120 11J0015 NUJ0011-01 10/01/11 23	I-Methylnaphthalene	ND	1.02		mg/kg dry	1.98	52%	10 - 120	11J0015	NUJ0011-01	10/01/11 23:01
Surrogate: 2-Fluarobiphenyl 1,14 mg/kg dry 1,98 57% [4-120 1]J0015 NUJ0011-01 10/01/11 23	2-Methylnaphthalene	ND	1.20		mg/kg dry	1.98	61%	13 - 120	1110015	NUJ0011-01	10/01/11 23:0
하다" 하다 하다 하다 하는 사람들은 사람들은 사람들이 되었다. 그 사람들은 사람들은 사람들이 되었다. 그리고 있다면 하다 하다 하는 것이 없는 것이다. 그리고 있다.	Surrogate Terphenyl-dl1		1.21		mg/kg dry	1.98	61%	18 - 120	1130015	NUJ0011-01	10/01/11 23:01
Surrogate Nitrobenzene-d5 0.996 mg/kg dry 1.98 50% 17 - 120 11J0015 NUJ0011-01 10/01/11 23	Surrogate: 2-Fluorobiphenyl		1,14		mg/kg dry	1.98	57%	14-120	1130015	NUJ0011-01	10/01/11 23;0
	Surrogate Nitrobenzene-d5		0 996		mg/kg dry	1.98	50%	17 - 120	11J0015	NUJ0011-01	10/01/11 23:01





10179 Highway 78 Ladson, SC 29456

Attn Tom McElwee

Work Order: NUJ0011

Project Name: Laurel Bay Housing Project

Project Number: [none]

Received: 09/30/11 08:15

PROJECT QUALITY CONTROL DATA Matrix Spike - Cont.

							Target		Sample	Analyzed
Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Range	Batch	Spiked	Date/Time

Polyaromatic Hydrocarbons by EPA 8270D



10179 Highway 78 Ladson, SC 29456 Tom McElwee

Attn

10179 Highway 78

Work Order: NI

NUJ0011

Project Name:

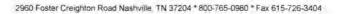
Laurel Bay Housing Project

Project Number: Received:

[none] 09/30/11 08:15

PROJECT QUALITY CONTROL DATA Matrix Spike Dup

Analyte	Ong. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by	EPA Method	3260B										
11J1301-MSD1												
Велгене	ND	2,93		mg/kg wet	2.32	126%	31 - 143	4	50	11J1301	NUJ0190-10RE	10/06/11 20:06
Ethylbenzene	ND	2.80		mg/kg wet	2 32	120%	23 - 161	7	50	11J1301	NUJ0190-10RE	10/06/11 20:06
Naphthalene	ND	2.24		mg/kg wet	2.32	96%	10 - 176	5	50	1111301	NUJ0190-10RE 2	10/06/11 20:06
Toluene	ND	2.75		mg/kg wet	2.32	118%	30 - 155	5	50	1111301	NUJ0190-10RE	10/06/11 20:06
Xylenes, total	ND	8,37		mg/kg wet	6.97	120%	25 - 162	7.	50	11J1301	NUJ0190-10RE	10/06/11 20:06
Surrogate: 1,2-Dichloroethane-d4		53.1		ug/kg	50,0	106%	70 - 130			11J1301	NUJ0190-10RE	10/06/11 20:06
Surrogate: Dibromofluoromethane		55.0		ug/kg	50.0	110%	70 - 130			11J1301	NUJ0190-10RE	10/06/11 20:06
Surrogate: Toluene-d8		46.4		ug/kg	50.0	93%	70 - 130			1111301	NUJ0190-10RE	10/06/11 20:06
Surrogate: 4-Bromofluorobenzene		47.2		ug/kg	50.0	94%	70 - 130			11J1301	NUJ0190-10RE 2	10/06/11 20:06
Polyaromatic Hydrocarbons by	EPA 8270D											
11J0015-MSD1												
Acenaphthene	ND	1.49		mg/kg dry	1.95	76%	19 - 120	10	50	1110015	NUJ0011-01	10/01/11 23:22
Acenaphthylene	ND	1.38		mg/kg dry	1:95	71%	25 - 120	9	50	11J0015	NUJ0011-01	10/01/11 23:22
Anthracene	ND	1.55		mg/kg dry	1:95	80%	28 - 125	12	49	11J0015	NUJ0011-01	10/01/11 23:22
Benzo (a) anthracene	ND	1.48		mg/kg dry	1:95	76%	23 - 120	11	50	11J0015	NUJ001I-01	10/01/11 23:22
Benzo (a) pyrene	ND	1.56		mg/kg dry	1.95	80%	15 - 128	11	50	11J0015	NUJ0011-01	10/01/11 23:22
Benzo (b) fluoranthene	ND	1.11		mg/kg dry	1.95	57%	12 - 133	9	50	11J0015	NUJ0011-01	10/01/11 23:22
Benzo (g,h,i) perylene	ND	1.44		mg/kg dry	1.95	74%	22 - 120	11	50	11J0015	NUJ0011-01	10/01/11 23:22
Benzo (k) fluoranthene	ND	1.28		mg/kg dry	1.95	65%	28 - 120	9	45	11J0015	NUJ0011-01	10/01/11 23:22
Chrysene	ND	1.42		mg/kg dry	1.95	73%	20 - 120	8	49	11J0015	NUJ0011-01	10/01/11 23:22
Dibenz (a,h) anthracene	ND	1.50		mg/kg dry	1.95	77%	12 - 128	10	50	11J0015	NUJ0011-01	10/01/11 23:22
Fluoranthene	ND	1.55		mg/kg dry	1 95	80%	10 - 143	13	50	11J0015	NUJ0011-01	10/01/11 23:22
Fluorene	ND	1.53		mg/kg dry	1.95	78%	20 - 120	12	50	11J0015	NUJ0011-01	10/01/11 23:22
Indeno (1,2,3-cd) pyrene	ND	1.46		mg/kg dry	1.95	75%	22 - 121	10	50	11J0015	NUJ0011-01	10/01/11 23:22
Naphthalene	ND	1.53		mg/kg dry	1.95	78%	10 - 120	11	50	11J0015	NUJ0011-01	16/01/11 23:22
Phenanthrene	ND	1,55		mg/kg dry	1.95	79%	21 - 122	13	50	11J0015	NUJ0011-01	10/01/11 23:22
Pyrene	ND	1,37		mg/kg dry	1.95	70%	20 - 123	11	50	11J0015	NUJ0011-01	10/01/11 23:22
1-Methylnaphthalene	ND	1.16		mg/kg dry	1.95	59%	10 - 120	12	50	11J0015	NUJ0011-01	10/01/11 23:22
2-Methylnaphthalene	ND	1,37		mg/kg dry	1 95	70%	13 - 120	13	50	1130015	NUJ0011-01	10/01/11 23:22
Surrogate, Terphenyl-dl 4		1,34		mg/kg dry	1.95	69%	18 - 120			1130015	NUJ0011-01	10/01/11 23:22
Surrogate 2-Fluorobiphenyl		1.24		mg/kg dry	1.95	63%	14 - 120			11J0015	NUJ0011-01	10/01/11 23:22
Surrogate: Nitrobenzene-d5		1.13		mg/kg dry	1.95	58%	17 - 120			11J0015	NUJ0011-01	10/01/11 23:22





10179 Highway 78

Ladson, SC 29456

Attn Tom McElwee

Work Order

NUJ0011

Project Name:

Laurel Bay Housing Project

Project Number: [none]

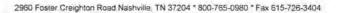
Received:

09/30/11 08:15

CERTIFICATION SUMMARY

TestAmerica Nashville

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





10179 Highway 78 Ladson, SC 29456

Attn Tom McElwee

ND

Work Order: NUJ0011

Project Name: Laurel Bay Housing Project

Project Number: [none]

Received: 09/30/11 08:15

DATA QUALIFIERS AND DEFINITIONS

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

METHOD MODIFICATION NOTES

issterrarin

Nachville Division 2960 Foster Creighton Nachville, TN 37204 Phone: 615-726-0177 Toll Free: 800-765-0980 Fax: 615-726-3404 To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?

Client Name/Account #:	EEG # 2449														_					(Complia	ance Mo	nitoring?		Yes_	_	No_			
Address:	10179 Highway	78		_			_	_		_					_						Enforc	cement A	Action?		Yes_		No_	_		
City/State/Zip:	Ladson, SC 294	156	_														Site	State:												_
Project Manager:	Tom McElwee e	meil: mcelv	vee@ee	ginc.r	net	_										,		PO#:	4.74	2	7									
Telephone Number:			-		_	Fa	# No.	2	4/3	-	87	<i>a</i> .	- 6	24	51			iote#:_		_							_		_	_
Sampler Name: (Print)		# 3		1	41	-		-	-	=	_		_	-	-			7. 7	aurel Bay	Housing	Projec	it						-	_	_
Sampler Signature:	F5/-	16/	-	_		De.	-	- 00-	-	41990		mi paine		CLEMA	-		Pro	ject #:						-10					-	_
	1	/	70				-	PI	eserva	tive		+	1	Matr	rix	_	ш			A	nalyze	For:	-	_		-	T T		-	_
ample ID / Description	Date Sampled	Time Sampled	No of Containers Shipped	Grab	Composite	Field Filtered	Ibe HNO ₃ (Red Label) /	MENTENDE LEDEN) FOR THE	NaOH (Orange Label) H ₂ SO ₄ Plastic (Yellow Label)	H ₂ SO ₄ Gless(Yellow Label)	None (Black Label)	Groundwaler	Wastewater	Drinking Water	Sludge	Office (specify)	BTEX + Napth - 82606	PAH - 8270D									RUSH TAT (Pre-Schedule	Standard TAT	Fax Results	Send QC with report
15 E Lymes & Buly	9/27/1	1/15	1	1		-		2		T	2			1		X	1	1			1			1	1			1	1	-
DEC DESHAL	7/28/11	1250	5	X		1		2			2	Vi	1		1	7	X	5			T								Ti	
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ATTACHMENT A



NON-HAZARDOUS MANIFEST

		1. Generator's	US EPA ID	No.	Ma	nifest Doc N	0.	2. Page 1	of	1275		
	NON-HAZARDOUS MANIFEST							1				
	3. Generator's Mailing Address:		Generate	or's Site Addres	ss (If dif	ferent than ma	dine):	A. Manife	st Number			
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	EEG, INC.							C. State T	ransporter's ID			
	EEG, INC.			al de				D. Transp	orter's Phone	843-8	379-041	1
	7. Transporter 2 Company Name		8.	USE	PA ID	Number			8653583		SELECT OF SELECT	
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		a above		2 116	50A II	> 0.0 mark - m	North Control	F. Transp	orter's Phone		201 3210	G
	9. Designated Facility Name and Site HICKORY HILL LANDFILL	Address	10	u. US	EPA II) Number		C 51-1-5	a allia . ID			
	2621 LOW COUNTRY ROAD							G. State F	41.010	042.0	07 464	•
	RIDGELAND, SC 29936							H. State F	acility Phone	843-5	987-4643	3
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	15. Special Handling Instructions and	Additional Inform	mation	2) 150	LA.	urul	BA	y 4)	203 8	BALSA	m	
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	Purchase Order #			EMERGENC	Y CON	TACT / PHO	NE NO.:	Sec Sile in				
	16. GENERATOR'S CERTIFICATE:											
	I hereby certify that the above-described									ve been fu	ly and	
	accurately described, classified and particle Name	ackaged and are i		Signature "On			ung to ap	olicable regu	lations.	Month	Day	Year
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N S	James BALDI	NIN	(Hame	4	Sold	un	-	United States	10	18	11
POR	18. Transporter 2 Acknowledgement	of Receipt of Ma	terials						District to			
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R												
5	19. Certificate of Final Treatment/Dis	posal					Trace -	No.			THE	9.5-20
FA	I certify, on behalf of the above listed	treatment facility	y, that to th	ne best of my k	nowle	dge, the abo	ve-describ	ped waste w	as managed in	complianc	e with all	
C	applicable laws, regulations, permits	and licenses on th	he dates lis	ted above.								E 578
L	20. Facility Owner or Operator: Certi	fication of receip	t of non-ha	zardous mater	ials co	vered by thi	s manifest		WAR THE			
Y	Printed Name			Signature		(0		Month	Day	Year
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Appendix C Regulatory Correspondence





Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

July 1, 2015

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

RE: No Further Action

Laurel Bay Underground Storage Tank Assessment Reports for:

See attached sheet

Dear Mr. Drawdy,

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

The Department has reviewed the referenced assessment reports and agrees there is no indication of soil or groundwater contamination on these properties, and therefore no further investigation is required at this time.

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

If you have any questions, please contact me at kriegkm@dhec.sc.gov or 803-898-0255.

Sincerely,

Kent Krieg

Department of Defense Corrective Action Section

Bureau of Land and Waste Management

South Carolina Department of Health and Environmental Control

Cc: Russell Berry (via email)

Craig Ehde (via email) Bryan Beck (via email)



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

Attachment to: Krieg to Drawdy

Subject: NFA
Dated 7/1/2015

Laurel Bay Underground Storage Tank Assessment Reports for: (153 addresses/161 tanks)

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360 Aspen 642 Dahlia Tank 2	360 Aspen	

Laurel Bay Underground Storage Tank Assessment Reports for: (153 addresses/161 tanks) cont.

655 Camellia	920 Albacore
662 Camellia	922 Barracuda Tank 1
683 Camellia	922 Barracuda Tank 2
684 Camellia	924 Albacore
689 Abelia	925 Albacore
694 Abelia	926 Albacore
695 Abelia	930 Albacore
741 Blue Bell	931 Albacore
742 Blue Bell	933 Albacore
755 Althea	936 Albacore
757 Althea	938 Albacore
776 Laurel Bay	939 Albacore
777 Azalea	940 Albacore
779 Laurel Bay	1010 Foxglove
781 Laurel Bay	1066 Gardenia
802 Azalea	1068 Gardenia
816 Azalea	1071 Heather Tank 2
822 Azalea	1100 Iris Tank 2
823 Azalea	1128 Iris
825 Azalea	1178 Bobwhite
828 Azalea	1204 Cardinal
837 Azalea	1208 Cardinal
851 Dolphin	1209 Cardinal
856 Dolphin	1210 Cardinal
857 Dolphin	1215 Cardinal
861 Dolphin	1216 Cardinal
864 Dolphin	1217 Cardinal Tank 1
868 Dolphin	1217 Cardinal Tank 2
872 Dolphin	1233 Dove
879 Cobia	1244 Dove
886 Cobia	1250 Dove
888 Cobia	1252 Dove
889 Cobia	1254 Dove
901 Barracuda	1256 Dove
902 Barracuda	1258 Dove
903 Barracuda	1263 Dove
904 Barracuda	1269 Dove
909 Barracuda	1276 Dove
910 Barracuda	1283 Dove
914 Barracuda	1285 Dove
915 Barracuda	1288 Eagle

Laurel Bay Underground Storage Tank Assessment Reports for: (153 addresses/161 tanks) cont.

1296 Eagle	1330 Albatross
1307 Eagle	1331 Albatross
1321 Albatross	1333 Albatross
1322 Albatross	1334 Albatross
1327 Albatross	1335 Albatross
1328 Albatross	