SUMMARY REPORT
343 ALBATROSS DRIVE (FORMERLY 1332 ALBATROSS DRIVE)

LAUREL BAY MILITARY HOUSING AREA

MARINE CORPS AIR STATION BEAUFORT

BEAUFORT, SC

Revision: 0 Prepared for:

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

and



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

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

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 343 Albatross Drive (Formerly 1332 Albatross Drive). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil 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 343 Albatross Drive (Formerly 1332 Albatross Drive). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 1332 Albatross Drive* (MCAS Beaufort, 2015). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On July 29, 2015, a single 280 gallon heating oil UST was removed from the landscaped area adjacent to the patio at 343 Albatross Drive (Formerly 1332 Albatross Drive). The former UST location is indicated on Figures 1 and 2 of the UST Assessment Report (Appendix B). The UST was removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of the UST was 5'8" bgs and a single soil sample was collected from that depth. The sample was collected from the fill port side of the former UST to represent a worst case scenario.

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 quidelines.

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 343 Albatross Drive (Formerly 1332 Albatross Drive) 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 343 Albatross Drive (1332 Albatross Drive). This NFA determination was obtained in a letter dated August 3, 2016. SCDHEC's NFA letter is provided in Appendix C.

4.0 REFERENCES

- Marine Corps Air Station Beaufort, 2015. South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report 1332 Albatross Drive, Laurel Bay Military Housing Area, November 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.

Table



Table 1

Laboratory Analytical Results - Soil 343 Albatross Drive (Formerly 1332 Albatross Drive)

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

Constituent	SCDHEC RBSLs (1)	Results Sample Collected 07/29/15
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	lyzed 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:

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

⁽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).

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

I. OWNERSHIP OF UST (S)

843	228-7317	Craig Ehde
City	State	Zip Code
Beaufort,	South Carolina	29904-5001
Mailing Address		
P.O. Box 55001		
Owner Name (Corporation,	Individual, Public Agency, Other)	
	manding Officer Attn: NI	REAO (Craig Ehde)

II. SITE IDENTIFICATION AND LOCATION

Permit I.D. #	
Laurel Bay Militar	y Housing Area, Marine Corps Air Station, Beaufort, SC
Facility Name or Company S	ite Identifier
1332 Albatross Dri	ve, Laurel Bay Military Housing Area
Street Address or State Road	(as applicable)
Beaufort,	Beaufort
City	County

Attachment 2

III. INSURANCE INFORMATION

Insu	rance Statement
qualify to receive state monies to pay for approp	on at Permit ID Number may riate site rehabilitation activities. Before participation is irmation of the existence or non-existence of an environmental be completed.
Is there now, or has there ever been an in UST release? YES NO (che	surance policy or other financial mechanism that covers this eck one)
If you answered YES to the above	e question, please complete the following information:
My policy provide The policy deducti The policy limit is	r is: ible is:
If you have this type of insurance, please	include a copy of the policy with this report.
I DO / DO NOT wish to participate in V. CERTIFICAT	the SUPERB Program. (Circle one.) ION (To be signed by the UST owner)
I certify that I have personally examined and	am familiar with the information submitted in this and all inquiry of those individuals responsible for obtaining this rmation 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	utside South Carolina

VI. UST INFORMATION	1332 Albatross
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	5'8"
Spill Prevention Equipment Y/N	No
Overfill Prevention Equipment Y/N.	No
Method of Closure Removed/Filled	Removed
Date Tanks Removed/Filled	7/29/2015
Visible Corrosion or Pitting Y/N	Yes
Visible Holes Y/N	Yes
그렇게 하면 그리면서 가게 있었다. 그리는 사꾸게 납에넣었다면 그렇게 되고 가입니다. 요하다. 이 그리고 하는 사람들은	red from the ground (attach disposal manifests) moved from the ground and disposed
at a Subtitle "D" landfi	ll. See Attachment "A".
disposal manifests)	eum, sludges, or wastewaters removed from the USTs (attreviously filled with sand by others.
	reviously filled with sand by others.

VII. PIPING INFORMATION

		Albatross
		Steel
(Construction Material(ex. Steel, FRP)	& Copper
	construction iviaterial(ex. Steel, FAF)	
I	Distance from UST to Dispenser	N/A
ľ	Number of Dispensers	N/A
100	Type of System Pressure or Suction	Suction
1	Was Piping Removed from the Ground? Y/N	No
7	Visible Corrosion or Pitting Y/N	Yes
7	Visible Holes Y/N	No
1	Age	Late 1950s
1	If any corrosion, pitting, or holes were observed, Corrosion and pitting were foun pipe. Copper supply and return	d on the surface of the steel
	bibe, copper pubbil and recall	TITLES WELE SOUTH.
	VIII DDIDE CIME DOCCE	NIDELONI AND HITCHOUSE
_	VIII. BRIEF SITE DESCR The USTs at the residences are c	
	VIII. BRIEF SITE DESCR The USTs at the residences are cand formerly contained fuel oil	onstructed of single wall steel

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?		X	
If yes, indicate the stockpile location on the site map.			
Name of DHEC representative authorizing soil removal:			
E. 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.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA#
1332 Albatros	Excav at fill end	Soil	Sandy	5 8	7/29/15 1145 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.

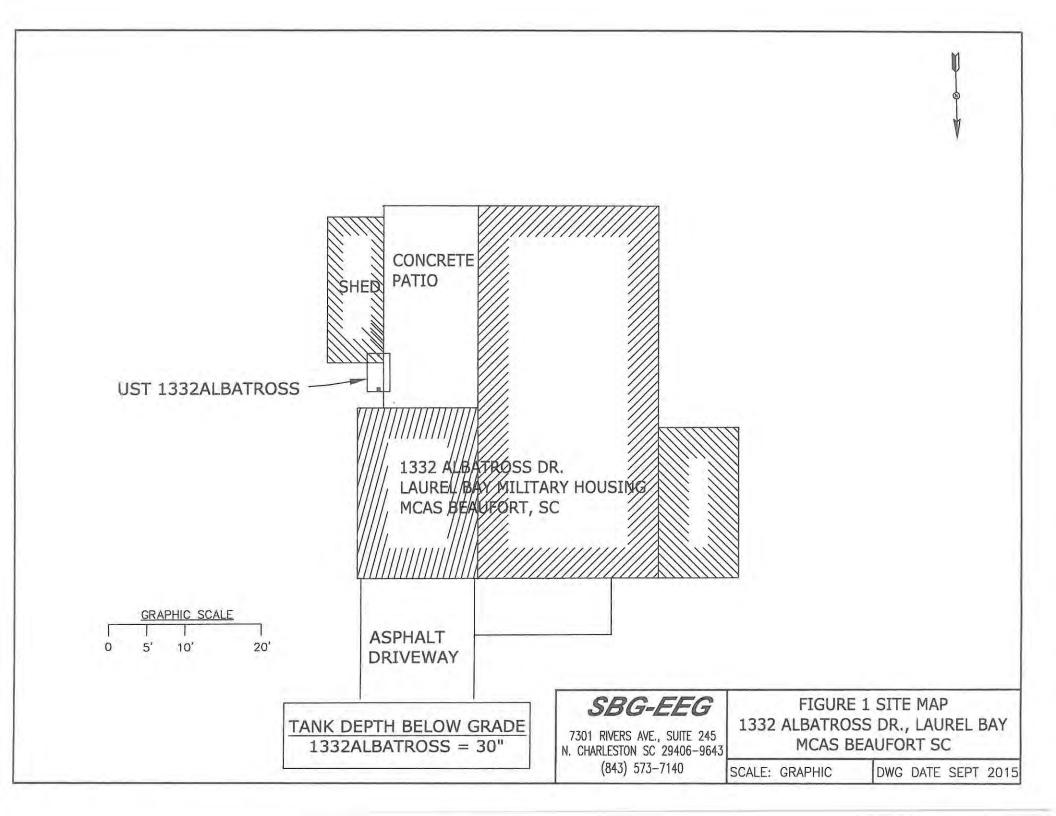
XII. RECEPTORS

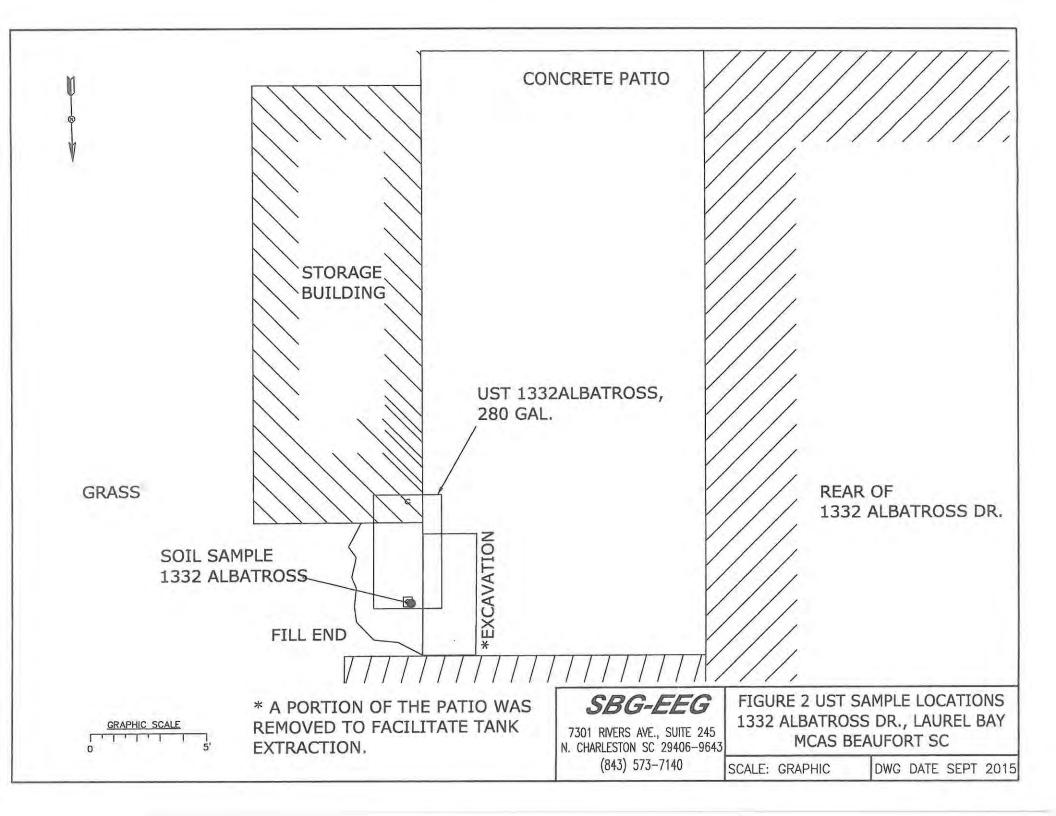
		Yes	No
A.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?		Х
	If yes, indicate type of receptor, distance, and direction on site map.		
B.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?		Х
	If yes, indicate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

XIII. SITE MAP

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

(Attach Site Map Here)







Picture 1: Location of UST 1332Albatross.



Picture 2: UST 1332Albatross excavation.



Picture 3: Site after completion of tank removal.

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	1332Albatross			
Benzene	ND			
Toluene	ND			
Ethylbenzene	ND			
Xylenes	ND			
Naphthalene	ND			
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				
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				
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)



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville 2960 Foster Creighton Drive Nashville, TN 37204 Tel: (615)726-0177

TestAmerica Job ID: 490-84152-1

Client Project/Site: Laurel Bay Housing Project

Revision: 1

For:

Small Business Group Inc. 10179 Highway 78 Ladson, South Carolina 29456

Attn: Tom McElwee

Authorized for release by: 8/27/2015 12:36:07 PM

Kuth Hage

Ken Hayes, Project Manager II (615)301-5035

ken.hayes@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-84152-1

3

Lab Sample ID	Client Sample ID	Matrix	Collected Received
490-84152-1	1220 Cardinal	Soil	07/27/15 13:45 08/01/15 08:45
490-84152-2	459 Elderberry	Soil	07/28/15 13:15 08/01/15 08:45
490-84152-3	1332 Albatross	Soil	07/29/15 11:45 08/01/15 08:45

Case Narrative

Client: Small Business Group Inc.
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-84152-1

Job ID: 490-84152-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-84152-1

REVISED REPORT: Revised to correct the sample time for 1332 Albatross (490-84152-3) from 14:45 to 11:45 as listed on the Chain of Custody. This report replaces the one generated on 08/07/15 @ 1639.

Comments

No additional comments.

Receipt

The samples were received on 8/1/2015 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.6° C.

GC/MS VOA

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 490-270885.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 490-271208.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

4

Definitions/Glossary

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-84152-1

Qualifiers

GC/MS Semi VOA

Qualifier Qualifier Description

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CNF Contains no Free Liquid

DER Duplicate error ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision level concentration
MDA Minimum detectable activity
EDL Estimated Detection Limit

MDC Minimum detectable concentration

MDL Method Detection Limit
ML Minimum Level (Dioxin)

NC Not Calculated

ND Not detected at the reporting limit (or MDL or EDL if shown)

PQL Practical Quantitation Limit

QC Quality Control
RER Relative error ratio

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

5

TestAmerica Job ID: 490-84152-1

Method: 8260B - Volatile Analyte		Qualifier	(IVIS)	BATTAL	Unit		Description	Amakana	DU -
	Result	Qualitier			20012	D	Prepared	Analyzed	Dil Fac
Benzene	100		0.00252	0.000843		\$	07/27/15 13:45	08/05/15 23:53	1
Ethylbenzene	ND		0.00252	0.000843	mg/Kg	\$	07/27/15 13:45	08/05/15 23:53	1
Naphthalene	ND		0.00629	0.00214		0	07/27/15 13:45	08/05/15 23:53	1
Toluene	ND		0.00252	0.000931	mg/Kg	0	07/27/15 13:45	08/05/15 23:53	1
Xylenes, Total	ND		0.00629	0.00155	mg/Kg	\$	07/27/15 13:45	08/05/15 23:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 130				07/27/15 13:45	08/05/15 23:53	1
4-Bromofluorobenzene (Surr)	101		70 - 130				07/27/15 13:45	08/05/15 23:53	1
Dibromofluoromethane (Surr)	99		70 - 130				07/27/15 13:45	08/05/15 23:53	1
Toluene-d8 (Surr)	97		70 - 130				07/27/15 13:45	08/05/15 23:53	1
Method: 8270D - Semivol	atile Organic Co	mpounds	(GC/MS)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0909	0.0136	mg/Kg	4	08/04/15 11:17	08/06/15 20:36	1
Acenaphthylene	ND		0.0909	0.0122	mg/Kg	4	08/04/15 11:17	08/06/15 20:36	1
Anthracene	ND		0.0909	0.0122	mg/Kg	4	08/04/15 11:17	08/06/15 20:36	1
Benzo[a]anthracene	ND		0.0909	0.0204	mg/Kg	0	08/04/15 11:17	08/06/15 20:36	1
Benzo[a]pyrene	ND		0.0909	0.0163	mg/Kg	-	08/04/15 11:17	08/06/15 20:36	1
Benzo[b]fluoranthene	ND		0.0909	0.0163	mg/Kg	4	08/04/15 11:17	08/06/15 20:36	1
Benzo[g,h,i]perylene	ND		0.0909	0.0122	mg/Kg	O.	08/04/15 11:17	08/06/15 20:36	1
Benzo[k]fluoranthene	ND		0.0909	0.0190	mg/Kg	0	08/04/15 11:17	08/06/15 20:36	1
1-Methylnaphthalene	ND		0.0909	0.0190	mg/Kg	0	08/04/15 11:17	08/06/15 20:36	1
Pyrene	ND		0.0909	0.0163	mg/Kg	0	08/04/15 11:17	08/06/15 20:36	1
Phenanthrene	ND		0.0909	0.0122		Ď.	08/04/15 11:17	08/06/15 20:36	1
Chrysene	ND		0.0909	0.0122	mg/Kg	472	08/04/15 11:17	08/06/15 20:36	1
Dibenz(a,h)anthracene	ND		0.0909	0.00950		4	08/04/15 11:17	08/06/15 20:36	1
Fluoranthene	ND		0.0909	0.0122	mg/Kg	4	08/04/15 11:17	08/06/15 20:36	1
Fluorene	ND		0.0909	0.0163	mg/Kg	0	08/04/15 11:17	08/06/15 20:36	1
Indeno[1,2,3-cd]pyrene	ND		0.0909	0.0136		0	08/04/15 11:17		3
Naphthalene	ND		0.0909	0.0122	mg/Kg	0	08/04/15 11:17		1
2-Methylnaphthalene	ND		0.0909	0.0217	1.2-9.0	4	08/04/15 11:17	08/06/15 20:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	60		29 - 120				08/04/15 11:17		1
Terphenyl-d14 (Surr)	74		13 - 120				08/04/15 11:17	Activities and activities	1
Nitrobenzene-d5 (Surr)	59		27 - 120				08/04/15 11:17	08/06/15 20:36	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	73		0.10	0.10	%			08/04/15 16:21	1

Client Sample Results

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project

Client Sample ID: 459 Elderberry

Date Collected: 07/28/15 13:15 Date Received: 08/01/15 08:45

TestAmerica Job ID: 490-84152-1

Lab Sample ID: 490-84152-2

Matrix: Soil

Method: 8260B - Volatile (MS)	MDL	1164	D	Description	Amarkanad	Dil Fac
Analyte	Result ND	Qualifier	0.00218	0.000730		0	Prepared 07/28/15 13:15	Analyzed 08/06/15 00:23	
Benzene						4			1
Ethylbenzene	ND		0.00218	0.000730		0	07/28/15 13:15	08/06/15 00:23	1
Naphthalene	ND		0.00545	0.00185		٥	07/28/15 13:15	08/06/15 00:23	1
Toluene	ND		0.00218	0.000806	mg/Kg	*	07/28/15 13:15	08/06/15 00:23	1
Xylenes, Total	ND		0.00545	0.00134	mg/Kg	~	07/28/15 13:15	08/06/15 00:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 130				07/28/15 13:15	08/06/15 00:23	1
4-Bromofluorobenzene (Surr)	103		70 - 130				07/28/15 13:15	08/06/15 00:23	1
Dibromofluoromethane (Surr)	99		70 - 130				07/28/15 13:15	08/06/15 00:23	1
Toluene-d8 (Surr)	100		70 - 130				07/28/15 13:15	08/06/15 00:23	1
Method: 8270D - Semivola	atile Organic Co	mpounds	(GC/MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0714	0.0106	mg/Kg	٥	08/03/15 13:40	08/04/15 18:24	1
Acenaphthylene	ND		0.0714	0.00958	mg/Kg	0	08/03/15 13:40	08/04/15 18:24	1
Anthracene	ND		0.0714	0.00958	mg/Kg	4	08/03/15 13:40	08/04/15 18:24	1
Benzo[a]anthracene	0.0289	J	0.0714	0.0160	mg/Kg	4	08/03/15 13:40	08/04/15 18:24	1
Benzo[a]pyrene	0.0476	J	0.0714	0.0128	mg/Kg	٠	08/03/15 13:40	08/04/15 18:24	1
Benzo[b]fluoranthene	0.0714		0.0714	0.0128	mg/Kg	Q.	08/03/15 13:40	08/04/15 18:24	1
Benzo[g,h,i]perylene	0.101		0.0714	0.00958	mg/Kg	0	08/03/15 13:40	08/04/15 18:24	1
Benzo[k]fluoranthene	0.0247	J	0.0714	0.0149	mg/Kg	4	08/03/15 13:40	08/04/15 18:24	1
1-Methylnaphthalene	ND		0.0714	0.0149	mg/Kg	ý.	08/03/15 13:40	08/04/15 18:24	1
Pyrene	ND		0.0714	0.0128	mg/Kg	0	08/03/15 13:40	08/04/15 18:24	1
Phenanthrene	ND		0.0714	0.00958	mg/Kg	0	08/03/15 13:40	08/04/15 18:24	1
Chrysene	0.0526	J	0.0714	0.00958	mg/Kg	\$	08/03/15 13:40	08/04/15 18:24	1
Dibenz(a,h)anthracene	ND		0.0714	0.00745	mg/Kg	4	08/03/15 13:40	08/04/15 18:24	1
Fluoranthene	ND		0.0714	0.00958	mg/Kg	0	08/03/15 13:40	08/04/15 18:24	1
Fluorene	ND		0.0714	0.0128	mg/Kg	0	08/03/15 13:40	08/04/15 18:24	1
Indeno[1,2,3-cd]pyrene	0.0645	J	0.0714	0.0106	mg/Kg		08/03/15 13:40	08/04/15 18:24	-1
Naphthalene	ND		0.0714	0.00958	mg/Kg	4	08/03/15 13:40	08/04/15 18:24	1
2-Methylnaphthalene	ND		0.0714	0.0170	mg/Kg	4	08/03/15 13:40	08/04/15 18:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	64		29 - 120				08/03/15 13:40	08/04/15 18:24	1
Terphenyl-d14 (Surr)	71		13 - 120				08/03/15 13:40	08/04/15 18:24	1
Nitrobenzene-d5 (Surr)	51		27 - 120				08/03/15 13:40	08/04/15 18:24	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	93		0.10	0.10	%			08/04/15 16:21	1

Client Sample Results

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-84152-1

Client Sample ID: 1332 Albatross

Date Collected: 07/29/15 11:45 Date Received: 08/01/15 08:45 Lab Sample ID: 490-84152-3

Matrix: Soil

Method: 8260B - Volatile 0	Organic Compo	unds (GC)	MS)						
Analyte	A STATE OF THE PARTY OF THE PAR	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00203	0.000680	mg/Kg	0	07/29/15 14:45	08/06/15 16:28	1
Ethylbenzene	ND		0.00203	0.000680	mg/Kg	0	07/29/15 14:45	08/06/15 16:28	1
Naphthalene	ND		0.00508	0.00173		0	07/29/15 14:45	08/06/15 16:28	1
Toluene	ND		0.00203	0.000751	mg/Kg	0	07/29/15 14:45	08/06/15 16:28	1
Xylenes, Total	ND		0.00508	0.00125	mg/Kg	ø	07/29/15 14:45	08/06/15 16:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130				07/29/15 14:45	08/06/15 16:28	1
4-Bromofluorobenzene (Surr)	103		70 - 130				07/29/15 14:45	08/06/15 16:28	1
Dibromofluoromethane (Surr)	101		70 - 130				07/29/15 14:45	08/06/15 16:28	1
Toluene-d8 (Surr)	100		70 - 130				07/29/15 14:45	08/06/15 16:28	1
Method: 8270D - Semivola	tile Organic Co	mpounds	(GC/MS)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0700	0.0104	mg/Kg	0	08/04/15 11:17	08/06/15 21:01	1
Acenaphthylene	ND		0.0700	0.00940	mg/Kg	45	08/04/15 11:17	08/06/15 21:01	-1
Anthracene	ND		0.0700	0.00940	mg/Kg	4	08/04/15 11:17	08/06/15 21:01	1.
Benzo[a]anthracene	ND		0.0700	0.0157	mg/Kg		08/04/15 11:17	08/06/15 21:01	1
Benzo[a]pyrene	ND		0.0700	0.0125	mg/Kg	4	08/04/15 11:17	08/06/15 21:01	1
Benzo[b]fluoranthene	ND		0.0700	0.0125	mg/Kg	- 20	08/04/15 11:17	08/06/15 21:01	1
Benzo[g,h,i]perylene	ND		0.0700	0.00940	mg/Kg	4	08/04/15 11:17	08/06/15 21:01	1
Benzo[k]fluoranthene	ND		0.0700	0.0146	mg/Kg	0	08/04/15 11:17	08/06/15 21:01	1
1-Methylnaphthalene	ND		0.0700	0.0146	mg/Kg	4	08/04/15 11:17	08/06/15 21:01	1
Pyrene	0.0436	J	0.0700	0.0125	mg/Kg	\$	08/04/15 11:17	08/06/15 21:01	1
Phenanthrene	ND		0.0700	0.00940	mg/Kg	4	08/04/15 11:17	08/06/15 21:01	1
Chrysene	ND		0.0700	0.00940	mg/Kg	->	08/04/15 11:17	08/06/15 21:01	1
Dibenz(a,h)anthracene	ND		0.0700	0.00731	mg/Kg	0	08/04/15 11:17	08/06/15 21:01	1
Fluoranthene	0.0454	J	0.0700	0.00940	mg/Kg	-0	08/04/15 11:17	08/06/15 21:01	1
Fluorene	ND		0.0700	0.0125	mg/Kg	4	08/04/15 11:17	08/06/15 21:01	1
Indeno[1,2,3-cd]pyrene	ND		0.0700	0.0104	mg/Kg	4	08/04/15 11:17	08/06/15 21:01	1
Naphthalene	ND		0.0700	0.00940	mg/Kg	-3	08/04/15 11:17	08/06/15 21:01	1
2-Methylnaphthalene	ND		0.0700	0.0167	mg/Kg	2	08/04/15 11:17	08/06/15 21:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	65		29 - 120				08/04/15 11:17	08/06/15 21:01	1
Terphenyl-d14 (Surr)	81		13 - 120				08/04/15 11:17	08/06/15 21:01	1
Nitrobenzene-d5 (Surr)	63		27 - 120				08/04/15 11:17	08/06/15 21:01	1
General Chemistry									
Analyte		Qualifier	RL	RL	01111	D	Prepared	Analyzed	Dil Fac
Percent Solids	93		0.10	0.10	%			08/04/15 16:21	1



Client: Small Business Group Inc.

Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-84152-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-270885/7

Matrix: Solid

Analysis Batch: 270885

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.00200	0.000670	mg/Kg			08/05/15 15:34	1	
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			08/05/15 15:34	1	
Naphthalene	ND		0.00500	0.00170	mg/Kg			08/05/15 15:34	1	
Toluene	ND		0.00200	0.000740	mg/Kg			08/05/15 15:34	1	
Xylenes, Total	ND		0.00500	0.00123	mg/Kg			08/05/15 15:34	1	
	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	92		70 - 130					08/05/15 15:34	1	
4-Bromofluorobenzene (Surr)	96		70 - 130					08/05/15 15:34	1	
Dibromofluoromethane (Surr)	98		70 - 130					08/05/15 15:34	1	

70-130

Lab Sample ID: LCS 490-270885/3

Matrix: Solid

Toluene-d8 (Surr)

Analysis Batch: 270885

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

08/05/15 15:34

	Spike	LUS	LUS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.0500	0.04455		mg/Kg		89	75 - 127
Ethylbenzene	0.0500	0.04757		mg/Kg		95	80 - 134
Naphthalene	0.0500	0.04963		mg/Kg		99	69 - 150
Toluene	0.0500	0.04577		mg/Kg		92	80 - 132
Xylenes, Total	0.100	0.09432		mg/Kg		94	80 - 137

LCS LCS

98

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: LCSD 490-270885/4

Matrix: Solid

Analysis Batch: 270885

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

•	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.0500	0.04427		mg/Kg		89	75 - 127	1	50
Ethylbenzene	0.0500	0.04673		mg/Kg		93	80 - 134	2	50
Naphthalene	0.0500	0.05022		mg/Kg		100	69 - 150	1	50
Toluene	0.0500	0.04526		mg/Kg		91	80 - 132	1	50
Xylenes, Total	0.100	0.09262		mg/Kg		93	80 - 137	2	50

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Client: Small Business Group Inc.

Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-84152-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-271208/7

Matrix: Solid

Analysis Batch: 271208

Client Sample ID: Method Blank

Prep Type: Total/NA

D Prepared Analyzed Dil Fac

	IVID	IVID								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	NĎ		0.00200	0.000670	mg/Kg			08/06/15 15:59	1	
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			08/06/15 15:59	1	
Naphthalene	ND		0.00500	0.00170	mg/Kg			08/06/15 15:59	1	
Toluene	ND		0.00200	0.000740	mg/Kg			08/06/15 15:59	1	
Xylenes, Total	ND		0.00500	0.00123	mg/Kg			08/06/15 15:59	1	
	MB	MB								

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 70-130 96 08/06/15 15:59 1 4-Bromofluorobenzene (Surr) 98 70 - 130 08/06/15 15:59 1 Dibromofluoromethane (Surr) 100 70 - 130 08/06/15 15:59 1 Toluene-d8 (Surr) 98 70 - 130 08/06/15 15:59 1

Lab Sample ID: LCS 490-271208/3

Matrix: Solid

Analysis Batch: 271208

Client Sample ID: Lab Control Sample Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.0500	0.04191		mg/Kg		84	75 - 127
Ethylbenzene	0.0500	0.04358		mg/Kg		87	80 - 134
Naphthalene	0.0500	0.04514		mg/Kg		90	69 - 150
Toluene	0.0500	0.04247		mg/Kg		85	80 - 132
Xylenes, Total	0.100	0.08665		mg/Kg		87	80 - 137

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 70 - 130 90 4-Bromofluorobenzene (Surr) 98 70-130 Dibromofluoromethane (Surr) 96 70-130 Toluene-d8 (Surr) 99 70 - 130

Lab Sample ID: LCSD 490-271208/4

Matrix: Solid

Analysis Batch: 271208

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Benzene 0.0500 0.04935 75 - 127 mg/Kg 99 16 50 Ethylbenzene 0.0500 0.05194 mg/Kg 104 80 - 134 18 50 Naphthalene 0.0500 0.05263 mg/Kg 105 69 - 150 15 50 Toluene 0.0500 0.05052 mg/Kg 101 80 - 132 17 50 Xylenes, Total 0.100 0.1022 mg/Kg 102 80 - 137 17 50

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-84152-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-270351/1-A

Matrix: Solid

Analysis Batch: 270566

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 270351

Accelera	Beault	Qualifier	RL	MOI	Unit	D	Prepared	Analyzed	Dil Fac
Analyte		Qualifier	the state of the s		10 10-00	D	08/03/15 13:40		Direc
Acenaphthene	ND		0.0670	0.0100				08/04/15 15:36	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		08/03/15 13:40	08/04/15 15:36	1
Anthracene	ND		0.0670	0.00900	mg/Kg		08/03/15 13:40	08/04/15 15:36	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		08/03/15 13:40	08/04/15 15:36	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		08/03/15 13:40	08/04/15 15:36	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		08/03/15 13:40	08/04/15 15:36	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		08/03/15 13:40	08/04/15 15:36	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		08/03/15 13:40	08/04/15 15:36	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		08/03/15 13:40	08/04/15 15:36	1
Pyrene	ND		0.0670	0.0120	mg/Kg		08/03/15 13:40	08/04/15 15:36	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		08/03/15 13:40	08/04/15 15:36	1
Chrysene	ND		0.0670	0.00900	mg/Kg		08/03/15 13:40	08/04/15 15:36	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		08/03/15 13:40	08/04/15 15:36	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg		08/03/15 13:40	08/04/15 15:36	1
Fluorene	ND		0.0670	0.0120	mg/Kg		08/03/15 13:40	08/04/15 15:36	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		08/03/15 13:40	08/04/15 15:36	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		08/03/15 13:40	08/04/15 15:36	- 1
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		08/03/15 13:40	08/04/15 15:36	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	80		29 - 120				08/03/15 13:40	08/04/15 15:36	1
Terphenyl-d14 (Surr)	85		13 - 120				08/03/15 13:40	08/04/15 15:36	1
							The William Street, and the last		

27 - 120

69

Lab Sample ID: LCS 490-270351/2-A

Matrix: Solid

Nitrobenzene-d5 (Surr)

Analysis Batch: 270566

Client Sample ID: Lab Control Sample Prep Type: Total/NA

08/03/15 13:40 08/04/15 15:36

Prep Batch: 270351

Analysis Batch: 2/0566							Prep Bat
	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	1.67	1.273		mg/Kg		76	38 - 120
Anthracene	1.67	1.368		mg/Kg		82	46 - 124
Benzo[a]anthracene	1.67	1.344		mg/Kg		81	45 - 120
Benzo[a]pyrene	1.67	1.379		mg/Kg		83	45 - 120
Benzo[b]fluoranthene	1.67	1.345		mg/Kg		81	42 - 120
Benzo[g,h,i]perylene	1.67	1.502		mg/Kg		90	38 - 120
Benzo[k]fluoranthene	1.67	1.351		mg/Kg		81	42 - 120
1-Methylnaphthalene	1.67	1.317		mg/Kg		79	32 - 120
Pyrene	1.67	1.265		mg/Kg		76	43 - 120
Phenanthrene	1.67	1.294		mg/Kg		78	45 - 120
Chrysene	1.67	1.366		mg/Kg		82	43 - 120
Dibenz(a,h)anthracene	1.67	1.572		mg/Kg		94	32 - 128
Fluoranthene	1.67	1.401		mg/Kg		84	46 - 120
Fluorene	1.67	1.388		mg/Kg		83	42 - 120
Indeno[1,2,3-cd]pyrene	1.67	1.486		mg/Kg		89	41 - 121
Naphthalene	1.67	1.207		mg/Kg		72	32 - 120
2-Methylnaphthalene	1.67	1.234		mg/Kg		74	28 - 120

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-270351/2-A

Lab Sample ID: LCSD 490-270351/3-A

Matrix: Solid

Matrix: Solid

2-Fluorobiphenyl (Surr) Terphenyl-d14 (Surr) Nitrobenzene-d5 (Surr)

Surrogate

Analysis Batch: 270566

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 270351

LCS	LCS	
%Recovery	Qualifier	Limits
76		29 - 120
79		13 - 120

27 - 120

69

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 270351

Analysis Batch: 270566 Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits Limit RPD Acenaphthylene 1.67 1.575 mg/Kg 38 - 120 21 50 Anthracene 1.67 1.659 mg/Kg 100 46 - 124 19 49 Benzo[a]anthracene 1.67 1.660 mg/Kg 100 45 - 120 21 50 Benzo[a]pyrene 1.67 1.694 mg/Kg 102 45 - 120 20 50 Benzo[b]fluoranthene 1.67 1.703 24 mg/Kg 102 42 - 120 50 Benzo[g,h,i]perylene 38 - 120 1.67 1.815 mg/Kg 109 19 50 Benzo[k]fluoranthene 1.67 1.572 mg/Kg 42 - 120 94 15 45 1-Methylnaphthalene 1.67 1.704 mg/Kg 102 32 - 120 26 50 Pyrene 1.67 1.498 mg/Kg 90 43 - 120 50 17 Phenanthrene 1.67 1.582 mg/Kg 95 45 - 120 20 50 Chrysene 1.67 1.623 mg/Kg 97 43 - 120 17 49 Dibenz(a,h)anthracene 1.67 1.927 mg/Kg 116 32 - 128 20 50 Fluoranthene 1.67 1.740 mg/Kg 104 46 - 120 22 50 Fluorene 1.67 1.672 mg/Kg 100 42 - 120 19 50 Indeno[1,2,3-cd]pyrene 1.67 1.826 mg/Kg 110 41 - 121 20 50 Naphthalene 1.67 1.543 mg/Kg 93 32 - 120 24 50 2-Methylnaphthalene 1.67 1.587 mg/Kg 95 28 - 120 25 50

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	89		29 - 120
Terphenyl-d14 (Surr)	88		13 - 120
Nitrobenzene-d5 (Surr)	86		27 - 120

Lab Sample ID: 490-84171-F-1-B MS

Matrix: Solid

Analysis Batch: 270566

Client Sample ID: Matrix Spike	
Prep Type: Total/NA	

Prep Batch: 270351

	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	ND		1.92	1.718		mg/Kg	4	89	25 - 120
Anthracene	ND		1.92	1.832		mg/Kg	0	95	28 - 125
Benzo[a]anthracene	0.0459	J	1.92	1.830		mg/Kg	0	93	23 - 120
Benzo[a]pyrene	0.0438	J	1.92	1.917		mg/Kg	\$	97	15 - 128
Benzo[b]fluoranthene	0.0863		1.92	1.930		mg/Kg	\$	96	12 - 133
Benzo[g,h,i]perylene	ND		1.92	2.008		mg/Kg	0	104	22 - 120
Benzo[k]fluoranthene	0.0345	J	1.92	1.871		mg/Kg	0	95	28 - 120
1-Methylnaphthalene	ND		1.92	1.817		mg/Kg	4	94	10 - 120
Pyrene	0.0868		1,92	1.714		mg/Kg	4	85	20 - 123
Phenanthrene	ND		1.92	1.760		mg/Kg	0	91	21 - 122
Chrysene	0.0622	J	1.92	1.828		mg/Kg	0	92	20 - 120

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample	ID:	490-84171-F-1-B MS	
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Matrix: Solid

Analysis Batch: 270566

Client Sample ID: Matrix Spike Prep Type: Total/NA

TestAmerica Job ID: 490-84152-1

Prep Batch: 270351

Analysis Batom 21 500	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Dibenz(a,h)anthracene	ND		1.92	2.133		mg/Kg	0	111	12 - 128
Fluoranthene	ND		1.92	1.954		mg/Kg	*	102	10-143
Fluorene	ND		1.92	1.885		mg/Kg	0	98	20 - 120
Indeno[1,2,3-cd]pyrene	ND		1.92	2.039		mg/Kg	4	106	22 - 121
Naphthalene	ND		1.92	1.608		mg/Kg	*	84	10-120
2-Methylnaphthalene	ND		1.92	1.708		mg/Kg	0	89	13 - 120

MS MS

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	82		29 - 120
Terphenyl-d14 (Surr)	84		13 - 120
Nitrobenzene-d5 (Surr)	73		27 - 120

Lab Sample ID: 490-84171-F-1-C MSD

Matrix: Solid

Analysis Batch: 270566

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 270351

A SOUTH OF THE PARTY OF THE PAR	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthylene	ND		1.96	1.632		mg/Kg	4	83	25 - 120	5	50
Anthracene	ND		1.96	1.767		mg/Kg	0	90	28 - 125	4	49
Benzo[a]anthracene	0.0459	J	1.96	1.749		mg/Kg	4	87	23 - 120	5	50
Benzo[a]pyrene	0.0438	J	1.96	1.848		mg/Kg	\$	92	15 - 128	4	50
Benzo[b]fluoranthene	0.0863		1.96	1.888		mg/Kg	4	92	12 - 133	2	50
Benzo[g,h,i]perylene	ND		1.96	1.898		mg/Kg	0	97	22 - 120	6	50
Benzo[k]fluoranthene	0.0345	J	1.96	1.765		mg/Kg	0	88	28 - 120	6	45
1-Methylnaphthalene	ND		1.96	1.674		mg/Kg	->	85	10-120	8	50
Pyrene	0.0868		1.96	1.612		mg/Kg	0	78	20 - 123	6	50
Phenanthrene	ND		1.96	1.685		mg/Kg	4	86	21 - 122	4	50
Chrysene	0.0622	J	1.96	1.733		mg/Kg	100	85	20 - 120	5	49
Dibenz(a,h)anthracene	ND		1.96	2.017		mg/Kg	0	103	12-128	6	50
Fluoranthene	ND		1.96	1.908		mg/Kg	O	97	10-143	2	50
Fluorene	ND		1.96	1.759		mg/Kg	٥	90	20 - 120	7	50
Indeno[1,2,3-cd]pyrene	ND		1.96	1.916		mg/Kg	0	98	22 - 121	6	50
Naphthalene	ND		1.96	1.490		mg/Kg	4	76	10 - 120	8	50
2-Methylnaphthalene	ND		1.96	1.567		mg/Kg	0	80	13 - 120	9	50

MSD MSD

MB MB

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	76		29 - 120
Terphenyl-d14 (Surr)	78		13 - 120
Nitrobenzene-d5 (Surr)	69		27 - 120

Lab Sample ID: MB 490-270536/1-A

Matrix: Solid

Analysis Batch: 271198

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 270536

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	0.0670	0.0100	mg/Kg		08/04/15 11:17	08/06/15 15:12	1
Acenaphthylene	ND	0.0670	0.00900	mg/Kg		08/04/15 11:17	08/06/15 15:12	1
Anthracene	ND	0.0670	0.00900	mg/Kg		08/04/15 11:17	08/06/15 15:12	1

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-270536/1-A

Matrix: Solid

Analysis Batch: 271198

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 270536

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		08/04/15 11:17	08/06/15 15:12	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		08/04/15 11:17	08/06/15 15:12	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		08/04/15 11:17	08/06/15 15:12	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		08/04/15 11:17	08/06/15 15:12	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		08/04/15 11:17	08/06/15 15:12	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		08/04/15 11:17	08/06/15 15:12	1
Pyrene	ND		0.0670	0.0120	mg/Kg		08/04/15 11:17	08/06/15 15:12	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		08/04/15 11:17	08/06/15 15:12	1
Chrysene	ND		0.0670	0.00900	mg/Kg		08/04/15 11:17	08/06/15 15:12	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		08/04/15 11:17	08/06/15 15:12	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg		08/04/15 11:17	08/06/15 15:12	1
Fluorene	ND		0.0670	0.0120	mg/Kg		08/04/15 11:17	08/06/15 15:12	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		08/04/15 11:17	08/06/15 15:12	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		08/04/15 11:17	08/06/15 15:12	1
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		08/04/15 11:17	08/06/15 15:12	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	74	29 - 120	08/04/15 11:17 08/06/15 15:	12 1
Terphenyl-d14 (Surr)	89	13 - 120	08/04/15 11:17 08/06/15 15:	12 1
Nitrobenzene-d5 (Surr)	77	27 - 120	08/04/15 11:17 08/06/15 15:	12 1

Lab Sample ID: LCS 490-270536/2-A

Matrix: Solid

Analysis Batch: 271198

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 270536

The state of the s	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	1.67	1.404		mg/Kg		84	38 - 120
Anthracene	1.67	1.618		mg/Kg		97	46 - 124
Benzo[a]anthracene	1.67	1.645		mg/Kg		99	45 - 120
Benzo[a]pyrene	1.67	1.646		mg/Kg		99	45 - 120
Benzo[b]fluoranthene	1.67	1.589		mg/Kg		95	42 - 120
Benzo[g,h,i]perylene	1.67	1.677		mg/Kg		101	38 - 120
Benzo[k]fluoranthene	1.67	1.751		mg/Kg		105	42 - 120
1-Methylnaphthalene	1.67	1.689		mg/Kg		101	32 - 120
Pyrene	1.67	1.630		mg/Kg		98	43 - 120
Phenanthrene	1.67	1.552		mg/Kg		93	45 - 120
Chrysene	1.67	1.581		mg/Kg		95	43 - 120
Dibenz(a,h)anthracene	1.67	1.703		mg/Kg		102	32 - 128
Fluoranthene	1.67	1.657		mg/Kg		99	46 - 120
Fluorene	1.67	1.636		mg/Kg		98	42 - 120
Indeno[1,2,3-cd]pyrene	1.67	1.678		mg/Kg		101	41 - 121
Naphthalene	1.67	1.560		mg/Kg		94	32 - 120
2-Methylnaphthalene	1.67	1.587		mg/Kg		95	28 - 120

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	87		29 - 120
Terphenyl-d14 (Surr)	98		13 - 120

Client: Small Business Group Inc.

Project/Site: Laurel Bay Housing Project

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-270536/2-A

Matrix: Solid Analysis Batch: 271198 Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 270536

LCS LCS

Limits %Recovery Qualifier Surrogate 27-120 Nitrobenzene-d5 (Surr) 99

Lab Sample ID: LCSD 490-270536/3-A

Matrix: Solid Analysis Batch: 271198 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 270536

Analysis Batch. 27 1190	Spike	LCSD	LCSD				%Rec.	Iton. Zi	RPD
Analyte	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthylene	1.67	1.112		mg/Kg		67	38 - 120	23	50
Anthracene	1.67	1.279		mg/Kg		77	46 - 124	23	49
Benzo[a]anthracene	1.67	1.316		mg/Kg		79	45 - 120	22	50
Benzo[a]pyrene	1.67	1.306		mg/Kg		78	45 - 120	23	50
Benzo[b]fluoranthene	1.67	1.310		mg/Kg		79	42 - 120	19	50
Benzo[g,h,i]perylene	1.67	1.366		mg/Kg		82	38 - 120	20	50
Benzo[k]fluoranthene	1.67	1.340		mg/Kg		80	42 - 120	27	45
1-Methylnaphthalene	1.67	1.327		mg/Kg		80	32 - 120	24	50
Pyrene	1.67	1.346		mg/Kg		81	43 - 120	19	50
Phenanthrene	1.67	1.242		mg/Kg		75	45 - 120	22	50
Chrysene	1.67	1.273		mg/Kg		76	43 - 120	22	49
Dibenz(a,h)anthracene	1.67	1.400		mg/Kg		84	32 - 128	20	50
Fluoranthene	1.67	1.349		mg/Kg		81	46 - 120	21	50
Fluorene	1.67	1.290		mg/Kg		77	42 - 120	24	50
Indeno[1,2,3-cd]pyrene	1.67	1.347		mg/Kg		81	41 - 121	22	50
Naphthalene	1.67	1.177		mg/Kg		71	32 - 120	28	50
2-Methylnaphthalene	1.67	1.202		mg/Kg		72	28 - 120	28	50

LCSD LCSD

Surrogate	%Recovery Qualified	r Limits
2-Fluorobiphenyl (Surr)	67	29 - 120
Terphenyl-d14 (Surr)	77	13-120
Nitrobenzene-d5 (Surr)	72	27 - 120

Lab Sample ID: 490-84145-E-1-B MS

Matrix: Solid

Analysis Batch: 271198

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 270536

Constitution of the consti	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	ND		1.66	1.139		mg/Kg		69	25 - 120
Anthracene	ND		1.66	1.302		mg/Kg		79	28 - 125
Benzo[a]anthracene	ND		1.66	1.339		mg/Kg		81	23 - 120
Benzo[a]pyrene	ND		1.66	1.306		mg/Kg		79	15 - 128
Benzo[b]fluoranthene	ND		1.66	1.309		mg/Kg		79	12 - 133
Benzo[g,h,i]perylene	ND		1.66	1.357		mg/Kg		82	22 - 120
Benzo[k]fluoranthene	ND		1.66	1.371		mg/Kg		83	28 - 120
1-Methylnaphthalene	ND		1.66	1.328		mg/Kg		80	10 - 120
Pyrene	ND		1.66	1.334		mg/Kg		81	20 - 123
Phenanthrene	ND		1.66	1.267		mg/Kg		77	21 - 122
Chrysene	ND		1.66	1.301		mg/Kg		79	20 - 120
Dibenz(a,h)anthracene	ND		1.66	1.419		mg/Kg		86	12 - 128
Fluoranthene	ND		1.66	1.379		mg/Kg		83	10 - 143

Client: Small Business Group Inc.

Project/Site: Laurel Bay Housing Project

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-84145-E-1-B MS

Matrix: Solid

Analysis Batch: 271198

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 270536

	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Fluorene	ND		1.66	1.313		mg/Kg		79	20 - 120
Indeno[1,2,3-cd]pyrene	ND		1.66	1.383		mg/Kg		84	22 - 121
Naphthalene	ND		1.66	1.230		mg/Kg		74	10-120
2-Methylnaphthalene	ND		1.66	1.251		mg/Kg		76	13 - 120

MS MS

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	71		29 - 120
Terphenyl-d14 (Surr)	80		13 - 120
Nitrobenzene-d5 (Surr)	77		27 - 120

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 270536

Matrix: Solid

Analysis Batch: 271198

Lab Sample ID: 490-84145-E-1-C MSD

Allalysis batch. 27 1190	2000	S	200						Frep ba	itch; Zi	0.00	
		Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Acenaphthylene	ND		1.62	0.9026		mg/Kg		56	25 - 120	23	50	
Anthracene	ND		1.62	1.034		mg/Kg		64	28 - 125	23	49	
Benzo[a]anthracene	ND		1.62	1.043		mg/Kg		64	23 - 120	25	50	
Benzo[a]pyrene	ND		1.62	1.043		mg/Kg		64	15 - 128	22	50	
Benzo[b]fluoranthene	ND		1.62	1.042		mg/Kg		64	12 - 133	23	50	
Benzo[g,h,i]perylene	ND		1.62	1.077		mg/Kg		67	22 - 120	23	50	
Benzo[k]fluoranthene	ND		1.62	1.047		mg/Kg		65	28 - 120	27	45	
1-Methylnaphthalene	ND		1.62	1.035		mg/Kg		64	10 - 120	25	50	
Pyrene	ND		1.62	1.055		mg/Kg		65	20 - 123	23	50	
Phenanthrene	ND		1.62	1.019		mg/Kg		63	21 - 122	22	50	
Chrysene	ND		1.62	1.029		mg/Kg		64	20 - 120	23	49	
Dibenz(a,h)anthracene	ND		1.62	1.092		mg/Kg		67	12 - 128	26	50	
Fluoranthene	ND		1.62	1.066		mg/Kg		66	10 - 143	26	50	
Fluorene	ND		1.62	1.032		mg/Kg		64	20 - 120	24	50	
Indeno[1,2,3-cd]pyrene	ND		1.62	1.078		mg/Kg		67	22 - 121	25	50	
Naphthalene	ND		1.62	0.9487		mg/Kg		59	10 - 120	26	50	
2-Methylnaphthalene	ND		1.62	0.9672		mg/Kg		60	13 - 120	26	50	

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	55		29 - 120
Terphenyl-d14 (Surr)	64		13-120
Nitrobenzene-d5 (Surr)	60		27 - 120

Method: Moisture - Percent Moisture

Lab Sample ID: 490-84208-A-6 DU

Matrix: Solid

Analysis Batch: 270638

Client Sample ID: Duplicate Prep Type: Total/NA

Sample Sample DU DU RPD Result Qualifier Analyte Result Qualifier Unit D RPD Limit 74 % Percent Solids 74 0.9 20

QC Association Summary

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-84152-1

GC/MS VOA

Prep	Batch:	2701	86
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-84152-1	1220 Cardinal	Total/NA	Soil	5035	
490-84152-2	459 Elderberry	Total/NA	Soil	5035	
490-84152-3	1332 Albatross	Total/NA	Soil	5035	

Analysis Batch: 270885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-84152-1	1220 Cardinal	Total/NA	Soil	8260B	270186
490-84152-2	459 Elderberry	Total/NA	Soil	8260B	270186
LCS 490-270885/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-270885/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-270885/7	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 271208

MB 490-270885/7

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-84152-3	1332 Albatross	Total/NA	Soil	8260B	270186
LCS 490-271208/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-271208/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MR 490-271208/7	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 270351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-84152-2	459 Elderberry	Total/NA	Soil	3550C	
490-84171-F-1-B MS	Matrix Spike	Total/NA	Solid	3550C	
490-84171-F-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	
LCS 490-270351/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 490-270351/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
MB 490-270351/1-A	Method Blank	Total/NA	Solid	3550C	

Prep Batch: 270536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-84145-E-1-B MS	Matrix Spike	Total/NA	Solid	3550C	
490-84145-E-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	
490-84152-1	1220 Cardinal	Total/NA	Soil	3550C	
490-84152-3	1332 Albatross	Total/NA	Soil	3550C	
LCS 490-270536/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 490-270536/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
MB 490-270536/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 270566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-84152-2	459 Elderberry	Total/NA	Soil	8270D	270351
490-84171-F-1-B MS	Matrix Spike	Total/NA	Solid	8270D	270351
490-84171-F-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8270D	270351
LCS 490-270351/2-A	Lab Control Sample	Total/NA	Solid	8270D	270351
LCSD 490-270351/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	270351
MB 490-270351/1-A	Method Blank	Total/NA	Solid	8270D	270351

QC Association Summary

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-84152-1

GC/MS Semi VOA (Continued)

Analysis Batch: 271198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-84145-E-1-B MS	Matrix Spike	Total/NA	Solid	8270D	270536
490-84145-E-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8270D	270536
490-84152-1	1220 Cardinal	Total/NA	Soil	8270D	270536
490-84152-3	1332 Albatross	Total/NA	Soil	8270D	270536
LCS 490-270536/2-A	Lab Control Sample	Total/NA	Solid	8270D	270536
LCSD 490-270536/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	270536
MB 490-270536/1-A	Method Blank	Total/NA	Solid	8270D	270536

General Chemistry

Analysis Batch: 270638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-84134-A-1 MS	Matrix Spike	Total/NA	Solid	Moisture	
490-84134-A-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	Moisture	
490-84152-1	1220 Cardinal	Total/NA	Soil	Moisture	
490-84152-2	459 Elderberry	Total/NA	Soil	Moisture	
490-84152-3	1332 Albatross	Total/NA	Soil	Moisture	
490-84208-A-6 DU	Duplicate	Total/NA	Solid	Moisture	

TestAmerica Job ID: 490-84152-1

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project

Client Sample ID: 1220 Cardinal

Date Collected: 07/27/15 13:45 Date Received: 08/01/15 08:45

Lab Sample ID: 490-84152-1

Lab Sample ID: 490-84152-2

Lab Sample ID: 490-84152-3

Matrix: Soil

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.423 g	5.0 mL	270186	07/27/15 13:45	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5.423 g	5.0 mL	270885	08/05/15 23:53	AK1	TAL NSH
Total/NA	Prep	3550C			30.16 g	1 mL	270536	08/04/15 11:17	LDC	TAL NSH
Total/NA	Analysis	8270D		1	30.16 g	1 mL	271198	08/06/15 20:36	SNR	TAL NSH
Total/NA	Analysis	Moisture		1			270638	08/04/15 16:21	HMV	TAL NSH

Client Sample ID: 459 Elderberry

Date Collected: 07/28/15 13:15

Date Received: 08/01/15 08:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5.0 mL	270186	07/28/15 13:15	JLP	TAL NSH
Total/NA	Analysis	8260B		1	4.95 g	5.0 mL	270885	08/06/15 00:23	AK1	TAL NSH
Total/NA	Prep	3550C			30.38 g	1 mL	270351	08/03/15 13:40	RMS	TAL NSH
Total/NA	Analysis	8270D		1	30.38 g	1 mL	270566	08/04/15 18:24	SNR	TAL NSH
Total/NA	Analysis	Moisture		1			270638	08/04/15 16:21	HMV	TAL NSH

Client Sample ID: 1332 Albatross

Date Collected: 07/29/15 11:45

Date Received: 08/01/15 08:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.297 g	5.0 mL	270186	07/29/15 14:45	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5.297 g	5.0 mL	271208	08/06/15 16:28	SLM	TAL NSH
Total/NA	Prep	3550C			30.89 g	1 mL	270536	08/04/15 11:17	LDC	TAL NSH
Total/NA	Analysis	8270D		1	30.89 g	1 mL	271198	08/06/15 21:01	SNR	TAL NSH
Total/NA	Analysis	Moisture		1			270638	08/04/15 16:21	HMV	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Matrix: Soil

Matrix: Soil



COOLER RECEIPT FORM



Cooler Received/Opened On 8/1/2015 @ 0845	****
1. Tracking #(last 4 digits, FedEx)	
Courier: FedEx IR Gun ID 94660220	
2. Temperature of rep. sample or temp blank when opened: 3.4 Degrees Celsius	
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank	frozen? YES NO. NA
4. Were custody seals on outside of cooler?	TES .NONA
If yes, how many and where: (2) Front Buck	
5. Were the seals intact, signed, and dated correctly?	YES NONA
6. Were custody papers inside cooler?	YES)NONA
I certify that I opened the cooler and answered questions 1-6 (intial)	MIDE
7. Were custody seals on containers: YES (NO) and Intac	t YESNONA
Were these signed and dated correctly?	YESNO. (NA)
8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Inser	rt Paper Other None
9. Cooling process: Ice pack lce (direct contact)	Dry ice Other None
10. Did all containers arrive in good condition (unbroken)?	YES.NO,NA
11. Were all container labels complete (#, date, signed, pres., etc)?	VES NONA
12. Did all container labels and tags agree with custody papers?	YES. NONA
13a. Were VOA vials received?	YES. NONA
b. Was there any observable headspace present in any VOA vial?	YESNO. (NA)
14. Was there a Trip Blank in this cooler? YES NA If multiple coolers,	sequence #
I certify that I unloaded the cooler and answered questions 7-14 (Intial)	R+
15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pl	H level? YESNO(NA)
b. Did the bottle labels indicate that the correct preservatives were used	YESNO. NA
16. Was residual chlorine present?	YESNO. (NA)
certify that I checked for chlorine and pH as per SOP and answered questions 15-16	(intial) DA
17. Were custody papers properly filled out (Ink, signed, etc)?	YES NO NA
18. Did you sign the custody papers in the appropriate place?	YES NONA
19. Were correct containers used for the analysis requested?	YES NONA
20. Was sufficient amount of sample sent in each container?	YES NO NA
certify that I entered this project into LIMS and answered questions 17-20 (intial)	DA
certify that I attached a label with the unique LIMS number to each container (intial)	DA
21. Were there Non-Conformance issues at login? YES. (NO) Was a NCM generated	7 YES (.NO.).#

Refinquished by:	Relinquished by M	Special Instructions:				1332 Albarrore	459 Elderhoery	1220 CARDINAL	Sample ID / Description			Sampler Signature:	Sampler Name: (Print)	Telephone Number: 843.412,2097	Project Manager: To	City/State/Zip: Ladson, SC 29456	Address: 10	Client Name/Account #: SBG - EEG # 2449	THE LEADER IN ENVIRONMENTAL TESTING
Date Time Best	7/31/15 Time Rec	,				7/29/15 1145 5 X	7/28/15 1315 5 X	7/27/15 1345 5 X	Date Sar Time Sa No. of Co Grab Composi	mpled ntainers Shipped	A 42.7	SHOW.	TRAT SHAN	43.412,2097	Project Manager: Tom McElwee email: mcelwee@eeginc.net	adson, SC 29456	Address: 10179 Highway 78	BG - EEG # 2449	Nashville Division 2960 Foster Creighton TESTING Nashville, TN 37204
Received by TestAmerica: 7 74 70 Date	Received by Date	Method of Shipment:				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	22	22	H₂SO₄ Pla	i Label) ange Label) stic (Yellow Label) sk Label) ectiv) All Parket ter	eservative	ve,) \	Fax No. 843 879-04					Phone: 615-726-0177 Toll Free: 800-765-0980 Fax: 615-726-3404
2845 0845						メメメ	×	×	Soil. Other (spe	Napth - 826		Project #:	Project ID: Laure	TA Quote #:	PO#	Site State: SC			To as: metho regula
		Laboratory Comments: Temperature Upon Receipt: 3 6 COVOCs Free of Headspace?									Analyze For:		Project ID: Laurel Bay Housing Project		1400		Enforcement Action?	Compliance Monitoring?	To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
		۲ 2							Standard Fax Res		ile)						Yes No		

Loc: 490 84152

8/27/2015

ATTACHMENT A



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's U	S EPA ID No.	Manifest Doc	No.	2. Page 1				
	1				1				
3. Generator's Mailing Address: MCAS BEAUFORT LAUREL BAY HOUSING	*	Generator's Site Ado	dress (If different than n	nailing):		MNA B. State	01519 Generator's		
	379-0411								
5. Transporter 1 Company Name		6. U	IS EPA ID Number						-
					C. State T	ransporter's I	D		
					D. Transp	orter's Phone			
7. Transporter 2 Company Name		8. U	IS EPA ID Number						
		- 1 -				ransporter's II	D		
9. Designated Facility Name and Site	Addrace	10.	US EPA ID Number		F. Transpo	orter's Phone			
HICKORY HILL LANDFILL	Audress	10.	US EPA ID Number		6 61 1 5	- 10 . ID			
2621 LOW COUNTRY DRIVE					G. State F				
RIDGELAND, SC 29936					H. State F	acility Phone	843-9	87-464	3
			12.00	ntainers	13. Total	1 22 000			
11. Description of Waste Materials			No.	Туре	Quantity	14. Unit Wt./Vol.	I. M	lisc. Commer	nts
a. HEATING OIL TANK FILLED Y	WITH SAND		1		American Company		4		V.
WM Prof	file# 102655SC								
b.					11				
WM Profile #									
C								(III	
WM Profile #									
d.									- cosmic market
									
WM Profile #	deletion del		K. Dispos	al Location	1		<u> </u>		
WM Profile # J. Additional Descriptions for Mater	riais Listed Above								
17139 713 331	riais Listed Above								
17139 713 331	riais Listed Above		Cell				Level		
J. Additional Descriptions for Mater		ation	Cell Grid				Level	0	
17139 713 331		ation .		1-1-1		1 - 18ma	Level	, Ex	l _{eg}
J. Additional Descriptions for Mater		1171	Grid	4-1-1 0) 43 s	T C	:- [lend	Level	, Br	Ting
J. Additional Descriptions for Mater 15. Special Handling Instructions and Divisions Order # 1	l Additional Informa		Grid	ONE NO	- (- - 2) eu - () u = (-	(= [led =]]	Level	, Br	LA
J. Additional Descriptions for Mater 15. Special Handling Instructions and Purchase Order #			Grid NCY CONTACT / PH	ONE NO.:			Level	, Br	at-
J. Additional Descriptions for Mater 15. Special Handling Instructions and Purchase Order # 16. GENERATOR'S CERTIFICATE:	l Additional Informa	EMERGE	Grid NCY CONTACT / PH	- 1	Park Ton	able state law	6) 3 : 1 / 1 : 5 : 5 :	E.	40
J. Additional Descriptions for Mater 15. Special Handling Instructions and Purchase Order # 16. GENERATOR'S CERTIFICATE: I hereby certify that the above-descri	d Additional Informa	EMERGE ot hazardous wastes	Grid NCY CONTACT / PH as defined by 40 Ci	R Part 261	or any applic	able state law	6) 3 : 1 / 1 : 5 : 5 :	n fully and	La
J. Additional Descriptions for Mater 15. Special Handling Instructions and Purchase Order # 16. GENERATOR'S CERTIFICATE:	d Additional Informa	EMERGE ot hazardous wastes proper condition for	Grid NCY CONTACT / PH as defined by 40 Ci	R Part 261	or any applic	able state law	6) 3 : 1 / 1 : 5 : 5 :	n fully and	Year
J. Additional Descriptions for Mater 15. Special Handling Instructions and Purchase Order # 16. GENERATOR'S CERTIFICATE: I hereby certify that the above-descriaccurately described, classified and p Printed Name	l Additional Informa bed materials are n ackaged and are in	eMERGE ot hazardous wastes proper condition for Signature "C	Grid NCY CONTACT / PH as defined by 40 Cl transportation acco	R Part 261	or any applic	able state law lations.	, have beer		
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Appendix C Regulatory Correspondence





August 3, 2016

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

RE: No Further Action

Laurel Bay Underground Storage Tank Assessment Reports

Dated July 2015, November 2015

Dear Mr. Drawdy:

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

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

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

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

Sincerely,

XIRTS

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

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

Bryan Beck, NAVFAC MIDATLANTIC (via email)

Craig Ehde (via email)

Attachment to: Petrus to Drawdy
Subject: No Further Action
Dated August 3, 2016

Laurel Bay Underground Assessment Reports for (28 addresses/29 tanks)

309 Ash	1001 Bobwhite
477 Dogwood Tank 2	1020 Foxglove
563 Dahlia	1063 Gardenia
659 Camellia	1065 Gardenia Tank 2
1213 Cardinal	1100 Iris Tank 3*
114 Banyan	1139 Iris
158 Cypress	1141 Iris Tank 2
459 Elderberry	1174 Bobwhite
611 Dahlia	1184 Bobwhite Tank 1
656 Camellia	1184 Bobwhite Tank 2
671 Camellia	1220 Cardinal
678 Camellia	1253 Dove
724 Bluebell	1332 Albatross
732 Bluebell	1387 Dove
934 Albacore	