SUMMARY REPORT
91 WEST CARDINAL LANE (FORMERLY 1208 WEST CARDINAL LANE)
LAUREL BAY MILITARY HOUSING AREA
MARINE CORPS AIR STATION BEAUFORT
BEAUFORT, SC

Revision: 0 Prepared for:

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

and



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

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Prepared by:



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

Contract Number: N62470-14-D-9016

CTO WE52

JUNE 2021



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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 91 West Cardinal Lane (Formerly 1208 West Cardinal Lane). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

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

1.1 Background Information

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



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

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

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

1.2 UST Removal and Assessment Process

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

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

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



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

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

2.0 SAMPLING ACTIVITIES AND RESULTS

The following section presents the sampling activities and associated results for 91 West Cardinal Lane (Formerly 1208 West Cardinal Lane). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 1208 West Cardinal Lane* (MCAS Beaufort, 2014). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On August 14, 2013, a single 280 gallon heating oil UST was removed from the front yard adjacent to the porch area at 91 West Cardinal Lane (Formerly 1208 West Cardinal Lane). 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 5'7" bgs and a single soil sample was collected from that depth. The sample was collected from the fill port side of the former UST to represent a worst case scenario.

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

2.2 Soil Analytical Results

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

The soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form (Appendix B). The results of the soil sampling at the former UST location were used by MCAS Beaufort, in consultation with SCDHEC, to determine a path forward (i.e., additional sampling or NFA) for the property. The soil results collected from 91 West Cardinal Lane (Formerly 1208 West Cardinal Lane) were less than the SCDHEC RBSLs, which indicated the subsurface was not impacted by COPCs associated with the former UST at concentrations that presented a potential risk to human health and the environment.

3.0 PROPERTY STATUS

Based on the analytical results for soil, SCDHEC made the determination that NFA was required for 91 West Cardinal Lane (Formerly 1208 West Cardinal Lane). 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, 2014. South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 1208 West Cardinal Lane, Laurel Bay Military Housing Area, March 2014.

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 91 West Cardinal Lane (Formerly 1208 West Cardinal Lane)

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

Constituent	SCDHEC RBSLs (1)	Results Sample Collected 08/14/13
Volatile Organic Compounds Analyzed	by EPA Method 8260B (mg/kg)	
Benzene	0.003	ND
Ethylbenzene	1.15	ND
Naphthalene	0.036	0.0106
Toluene	0.627	ND
Xylenes, Total	13.01	ND
Semivolatile Organic Compounds Ana	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



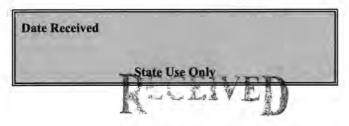


Appendix A - Multi-Media Selection Process for LBMH

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

MAR 1 9 2014

SC DHEC - Bureau of Land & Waste Management

I. OWNERSHIP OF UST (S)

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

II. SITE IDENTIFICATION AND LOCATION

Permit I.D. #
Laurel Bay Military Housing Area, Marine Corps Air Station, Beaufort, SC
Facility Name or Company Site Identifier
1208 Cardinal Lane, Laurel Bay Military Housing Area
Street Address or State Road (as applicable)
Beaufort, Beaufort
City County

Attachment 2

III. INSURANCE INFORMATION

	Insurance	Statement
qualify to receive state monies	to pay for appropriate site fund, written confirmation	at Permit ID Number may rehabilitation activities. Before participation is of the existence or non-existence of an environmental leted.
and the second s	ere ever been an insurance 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 o	f insurance, please include	a copy of the policy with this report.
v.	CERTIFICATION (Го be signed by the UST owner)
I certify that I have persona attached documents; and th information, I believe that th	lly examined and am fan	niliar with the information submitted in this and all of those individuals responsible for obtaining this is true, accurate, and complete.
Name (Type or print.)		
Signature		
To be completed by No	tary Public:	
Sworn before me this	day of	
(Name)		_
(Ivaine)		

VI. UST INFORMATION	1208 Cardinal
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	5'7"
Spill Prevention Equipment Y/N	No
Overfill Prevention Equipment Y/N	No
Method of Closure Removed/Filled	Removed
Date Tanks Removed/Filled	8/14/2013
Visible Corrosion or Pitting Y/N	Yes
Visible Holes Y/N	Yes
Method of disposal for any USTs removed from t UST 1208Cardinal was removed for	
at a Subtitle "D" landfill. See	e Attachment "A".
Method of disposal for any liquid petroleum, slud disposal manifests) UST 1208Cardinal was previousl	
If any corrosion, pitting, or holes were observed, or corrosion, pitting and holes we	

VII. PIPING INFORMATION

	Cardinal
	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
Corrosion and pitting were four	nd on the surface of the steel v
	nd on the surface of the steel v
Corrosion and pitting were four	nd on the surface of the steel v
Corrosion and pitting were four	nd on the surface of the steel values were sound.
Corrosion and pitting were four pipe. Copper supply and return VIII. BRIEF SITE DESCR	nd on the surface of the steel was lines were sound. RIPTION AND HISTORY constructed of single wall stee
Corrosion and pitting were four pipe. Copper supply and return VIII. BRIEF SITE DESCE	RIPTION AND HISTORY constructed of single wall stee for heating. These USTs were
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Corrosion and pitting were four pipe. Copper supply and return VIII. BRIEF SITE DESCRITE USTs at the residences are and formerly contained fuel oil	RIPTION AND HISTORY constructed of single wall stee for heating. These USTs were

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?		X	
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?		X	
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)?	<u> </u>		
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

В.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA#
1208 Cardinal	Excav at fill end	Soil	Sandy	5!7"	8/14/13 1415 hrs	P. Shaw	
			1				
8							
9							
10							
11							
12					- 1		
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.

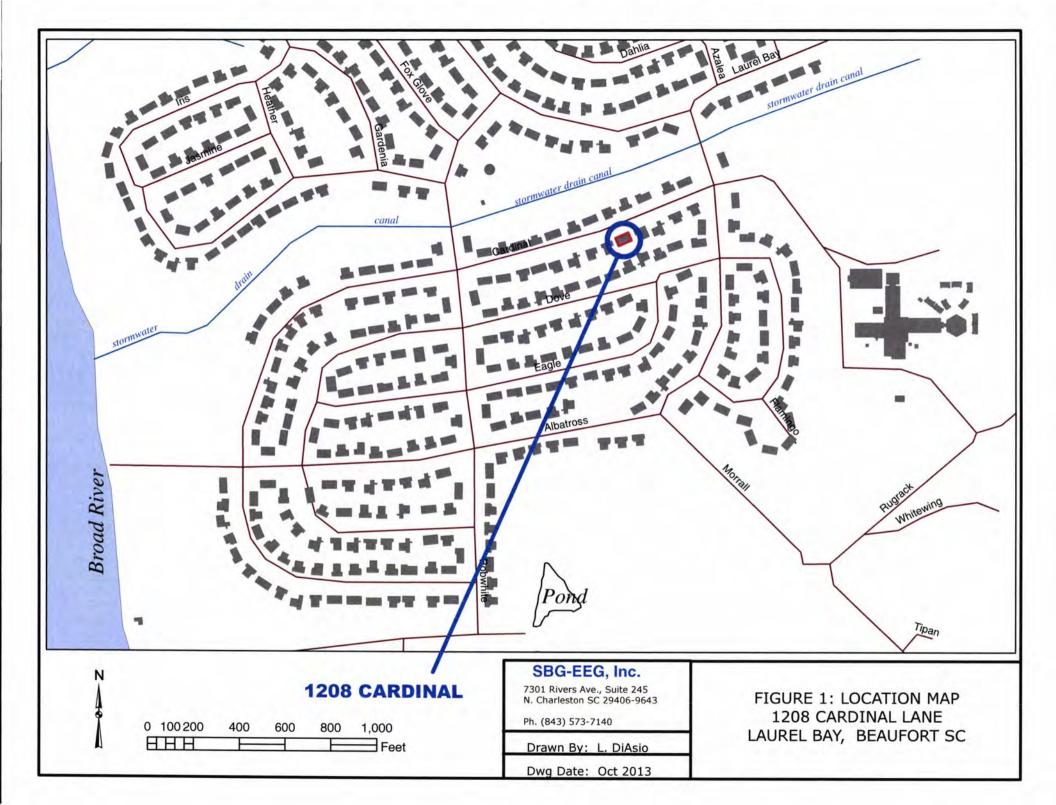
XII. RECEPTORS

Yes No A. Are there any lakes, ponds, streams, or wetlands located within *X 1000 feet of the UST system? *Stormwater drainage 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 *Sewer, water, electricity contamination? cable, fiber optic & geothermal 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

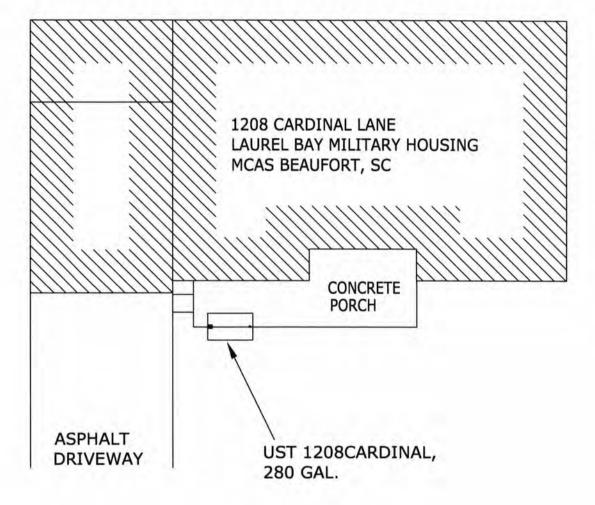
You must supply a <u>scaled</u> site map. It should include all buildings, road names, utilities, tank and dispenser island locations, labeled sample locations, extent of excavation, and any other pertinent information.

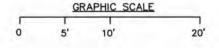
(Attach Site Map Here)



STORMWATER DRAINAGE CANAL ≈ 215'







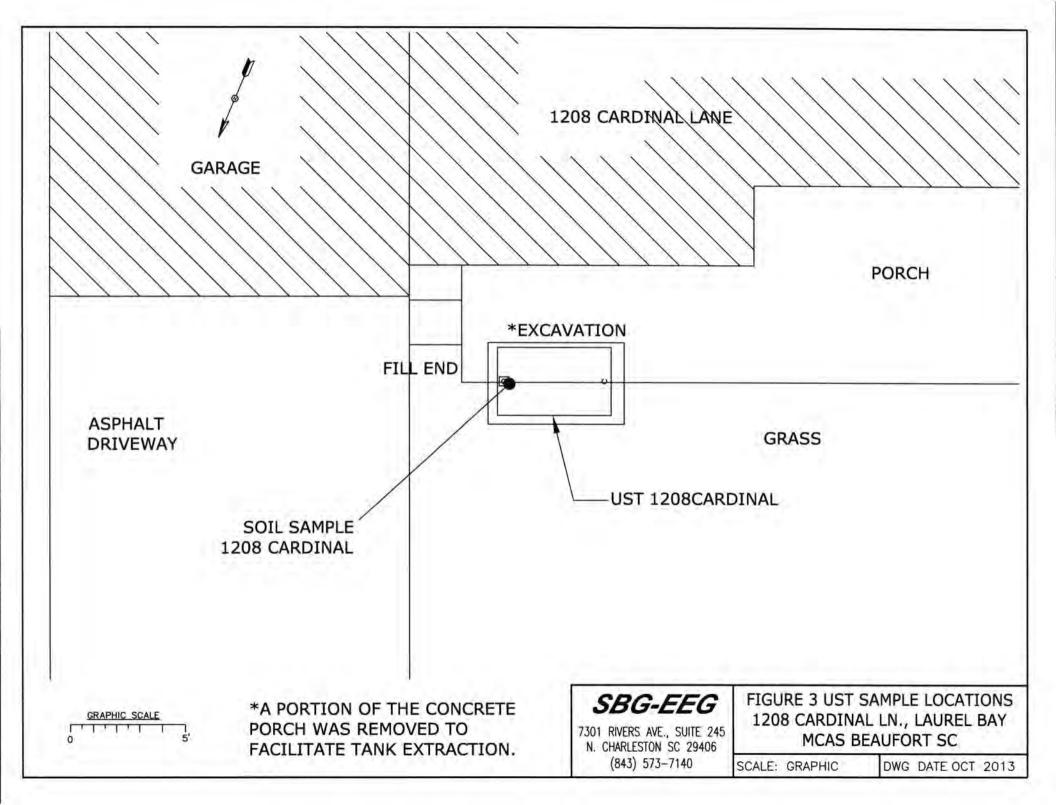
UST 1208CARDINAL WAS 31" BELOW GRADE.

SBG-EEG

7301 RIVERS AVE., SUITE 245 N. CHARLESTON SC 29406 (843) 573-7140 FIGURE 2 SITE MAP 1208 CARDINAL LN., LAUREL BAY MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE OCT 2013





Picture 1: Location of UST 1208Cardinal.



Picture 2: UST 1208Cardinal excavation.

XIV. SUMMARY OF ANALYSIS RESULTS

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

CoC UST	1208Cardinal			
Benzene	ND			
Toluene	ND			
Ethylbenzene	ND			
Xylenes	ND			
Naphthalene	0.0106 mg/kg			
Benzo (a) anthracene	ND			
Benzo (b) fluoranthene	ND			
Benzo (k) fluoranthene	ND			
Chrysene	ND			
Dibenz (a, h) anthracene	ND			
TPH (EPA 3550)				
		- 1		
CoC				
Benzene				
Toluene				
Ethylbenzene				
Xylenes			111	
Naphthalene				
Benzo (a) anthracene				
Benzo (b) fluoranthene				
Benzo (k) fluoranthene				
Chrysene				
Chrysene Dibenz (a, h) anthracene				

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				1
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: 490-33491-1 Client Project/Site: Laurel Bay Site

For:

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

Attn: Tom McElwee

Authorized for release by: 8/28/2013 4:08:18 PM

Kuth Hay

Ken Hayes, Project Manager I ken.hayes@testamericainc.com

.....LINKS

Review your project results through

Have a Question?



Visit us at: www.testamericainc.com 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 Site TestAmerica Job ID: 490-33491-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-33491-1	913 Barracuda	Solid	08/12/13 16:15	08/20/13 08:20
490-33491-2	1208 Cardinal	Solid	08/14/13 14:15	08/20/13 08:20

3

6

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10

T)

12

13

Case Narrative

Client: Small Business Group Inc. Project/Site: Laurel Bay Site TestAmerica Job ID: 490-33491-1

Job ID: 490-33491-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-33491-1

Comments

No additional comments.

Receipt

The samples were received on 8/20/2013 8:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.8° C.

GC/MS VOA

Method(s) 8260B: Internal standard responses were outside of acceptance limits for the following sample(s): (490-33510-6 MS), (490-33510-6 MSD). The sample(s) shows evidence of matrix interference.

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside control limits: (490-33510-6 MS), (490-33510-6 MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B: Internal standard responses were outside of acceptance limits for the following sample(s): 1315665-06 (490-33510-6). The sample(s) shows evidence of matrix interference.

Method(s) 8260B; Surrogate recovery for the following sample(s) was outside control limits: 1315665-06 (490-33510-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 101819. See lcs/lcsd

Method(s) 8260B: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample(s): 1315665-06 (490-33510-6).

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside control limits: 1315665-06 (490-33510-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No other analytical or quality issues were noted.

GC/MS Semi VOA

Method(s) 8270C, 8270D: The matrix spike / matrix spike duplicate (MS/MSD) percent recoveries and %RPD for batch 101830 were outside control limits. This is attributed to non-homogeneity of the sample matrix and matrix interferences.

Method(s) 8270D: The matrix spike / matrix spike duplicate (MS/MSD) percent recoveries and %RPD for batch 101830 were outside control limits. This is attributed to non-homogeneity of the sample matrix and matrix interferences.

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

VOA Prep

No analytical or quality issues were noted.

Definitions/Glossary

Client: Small Business Group Inc. Project/Site: Laurel Bay Site TestAmerica Job ID: 490-33491-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description				
X	Surrogate is outside control limits				

Reporting Limit or Requested Limit (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)
Toxicity Equivalent Quotient (Dioxin)

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

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.
E	Result exceeded calibration range.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

Glossary

RL

RPD TEF

TEQ

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
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

Client Sample Results

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

TestAmerica Job ID: 490-33491-1

Client Sample ID: 913 Barracuda

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

Result Qualifier

Date Collected: 08/12/13 16:15 Date Received: 08/20/13 08:20

Analyte

Analyte

Percent Solids

Lab Sample ID: 490-33491-1

Analyzed

Prepared

Matrix: Solid

Percent Solids: 84.2

Dil Fac	9
1	
1	6
1	
1	
1	
Dil Fac	8
1	6
1	SA
1	
1	
1	
1	
1	PP-1
1	E-192

Benzene	ND		0.00217	0.000727	mg/Kg	Œ	08/21/13 14:28	08/21/13 20:38	1
Ethylbenzene	0.209		0.127	0.0431	mg/Kg	D.	08/21/13 14:29	08/22/13 15:08	1
Naphthalene	2.08		0.317	0.108	mg/Kg	CE	08/21/13 14:29	08/22/13 15:08	1
Toluene	ND		0.00217	0.000803	mg/Kg	D	08/21/13 14:28	08/21/13 20:38	1
Xylenes, Total	0.00426		0.00326	0.000727	mg/Kg	ŭ	08/21/13 14:28	08/21/13 20:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 130				08/21/13 14:28	08/21/13 20:38	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 130				08/21/13 14:29	08/22/13 15:08	1
4-Bromofluorobenzene (Surr)	81		70 - 130				08/21/13 14:28	08/21/13 20:38	1

RL

MDL Unit

1,2-Dichloroethane-d4 (Surr)	93	70 - 130	08/21/13 14:28	08/21/13 20:38	1
1,2-Dichloroethane-d4 (Surr)	89	70 - 130	08/21/13 14:29	08/22/13 15:08	1
4-Bromofluorobenzene (Surr)	81	70 - 130	08/21/13 14:28	08/21/13 20:38	1
4-Bromofluorobenzene (Surr)	103	70 - 130	08/21/13 14:29	08/22/13 15:08	1
Dibromofluoromethane (Surr)	92	70 - 130	08/21/13 14:28	08/21/13 20:38	1
Dibromofluoromethane (Surr)	88	70 - 130	08/21/13 14:29	08/22/13 15:08	1
Toluene-d8 (Surr)	121	70 - 130	08/21/13 14:28	08/21/13 20:38	1
Toluene-d8 (Surr)	102	70 - 130	08/21/13 14:29	08/22/13 15:08	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.146		0.0783	0.0117	mg/Kg	O	08/22/13 09:18	08/23/13 18:21	1
Acenaphthylene	ND		0.0783	0.0105	mg/Kg	Ø	08/22/13 09:18	08/23/13 18:21	1
Anthracene	0.167		0.0783	0.0105	mg/Kg	12	08/22/13 09:18	08/23/13 18:21	1
Benzo[a]anthracene	1.20		0.0783	0.0175	mg/Kg	D	08/22/13 09:18	08/23/13 18:21	1
Benzo[a]pyrene	0.582		0.0783	0.0140	mg/Kg	ta	08/22/13 09:18	08/23/13 18:21	1
Benzo[b]fluoranthene	1.00		0.0783	0.0140	mg/Kg	23	08/22/13 09:18	08/23/13 18:21	1
Benzo[g,h,i]perylene	0.215		0.0783	0.0105	mg/Kg	n	08/22/13 09:18	08/23/13 18:21	1
Benzo[k]fluoranthene	0.463		0.0783	0.0164	mg/Kg	30	08/22/13 09:18	08/23/13 18:21	1
1-Methylnaphthalene	0.807		0.0783	0.0164	mg/Kg	30	08/22/13 09:18	08/23/13 18:21	1
Pyrene	1.61		0.0783	0.0140	mg/Kg	XI	08/22/13 09:18	08/23/13 18:21	1
Phenanthrene	ND		0.0783	0.0105	mg/Kg	22	08/22/13 09:18	08/23/13 18:21	1
Chrysene	1.33		0.0783	0.0105	mg/Kg	32	08/22/13 09:18	08/23/13 18:21	1
Dibenz(a,h)anthracene	0.0875		0.0783	0.00818	mg/Kg	33	08/22/13 09:18	08/23/13 18:21	1
Fluoranthene	1.48		0.0783	0.0105	mg/Kg	72	08/22/13 09:18	08/23/13 18:21	1
Fluorene	0.337		0.0783	0.0140	mg/Kg	n	08/22/13 09:18	08/23/13 18:21	1
Indeno[1,2,3-cd]pyrene	0.220		0.0783	0.0117	mg/Kg	12	08/22/13 09:18	08/23/13 18:21	1
Naphthalene	0.0451	J	0.0783	0.0105	mg/Kg	22	08/22/13 09:18	08/23/13 18:21	1
2-Methylnaphthalene	0.785		0.0783	0.0187	mg/Kg	a	08/22/13 09:18	08/23/13 18:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	66		29 - 120				08/22/13 09:18	08/23/13 18:21	1
Terphenyl-d14 (Surr)	75		13 - 120				08/22/13 09:18	08/23/13 18:21	1
Nitrobenzene-d5 (Surr)	71		27 - 120				08/22/13 09:18	08/23/13 18:21	1
General Chemistry									
The real field of the second s									

TestAmerica	Nashville
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Analyzed

08/21/13 11:57

RL

0.10

RL Unit

0.10 %

D

Prepared

Result Qualifier

84

Dil Fac

Client Sample Results

Client: Small Business Group Inc. Project/Site: Laurel Bay Site TestAmerica Job ID: 490-33491-1

Lab Sample ID: 490-33491-2

Matrix: Solid Percent Solids: 84.9

Matrix: Solid

Client Sample ID: 1208 Cardinal

Date Collected: 08/14/13 14:15 Date Received: 08/20/13 08:20

Terphenyl-d14 (Surr)

Nitrobenzene-d5 (Surr)

General Chemistry

Analyte

Percent Solids

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00233	0.000781	mg/Kg	n	08/21/13 14:28	08/21/13 21:07	1
Ethylbenzene	ND		0.00233	0.000781	mg/Kg	13	08/21/13 14:28	08/21/13 21:07	1
Naphthalene	0.0106		0.00583	0.00198	mg/Kg	D	08/21/13 14:28	08/21/13 21:07	1
Toluene	ND		0.00233	0.000862	mg/Kg	D	08/21/13 14:28	08/21/13 21:07	1
Xylenes, Total	ND		0.00350	0.000781	mg/Kg	D	08/21/13 14:28	08/21/13 21:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 130				08/21/13 14:28	08/21/13 21:07	1
4-Bromofluorobenzene (Surr)	109		70 - 130				08/21/13 14:28	08/21/13 21:07	1
Dibromofluoromethane (Surr)	87		70 - 130				08/21/13 14:28	08/21/13 21:07	1
Toluene-d8 (Surr)	102		70 - 130				08/21/13 14:28	08/21/13 21:07	1
Method: 8270D - Semivolatile		nds (GC/MS		MOI	Unit				DU 5
Analyte	ND	Quaimer	RL 0.0782	0.0117		D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND ND		0.0782		mg/Kg	D	08/22/13 09:18	08/23/13 19:44	1
Acenaphthylene			0.0782	0.0105	mg/Kg	13	08/22/13 09:18	08/23/13 19:44	1
Anthracene Benzo[a]anthracene	ND ND		0.0782	0.0105	mg/Kg mg/Kg	n	08/22/13 09:18 08/22/13 09:18	08/23/13 19:44	1
	ND ND		0.0782			11		08/23/13 19:44	1
Benzo[a]pyrene	ND ND		0.0782	0.0140	mg/Kg	p	08/22/13 09:18	08/23/13 19:44	1
Benzo[b]fluoranthene			1000	0.0140	mg/Kg	10	08/22/13 09:18	08/23/13 19:44	- 3
Benzo[g,h,i]perylene	ND		0.0782	0.0105	mg/Kg	23	08/22/13 09:18	08/23/13 19:44	- 1
Benzo[k]fluoranthene	ND		0.0782	0.0163		n	08/22/13 09:18	08/23/13 19:44	1
1-Methylnaphthalene	ND		0.0782	0.0163			08/22/13 09:18	08/23/13 19:44	1
Pyrene	ND		0.0782	0.0140	mg/Kg	п	08/22/13 09:18	08/23/13 19:44	1
Phenanthrene	ND		0.0782	0.0105	mg/Kg	12	08/22/13 09:18	08/23/13 19:44	1
Chrysene	ND		0.0782	0.0105		0	08/22/13 09:18	08/23/13 19:44	1
Dibenz(a,h)anthracene	ND		0.0782	0.00817		- 13	08/22/13 09:18	08/23/13 19:44	1
Fluoranthene	ND		0.0782	0.0105		2	08/22/13 09:18	08/23/13 19:44	1
Fluorene	ND		0.0782	0.0140	mg/Kg	II	08/22/13 09:18	08/23/13 19:44	1
ndeno[1,2,3-cd]pyrene	ND		0.0782		mg/Kg	13	08/22/13 09:18	08/23/13 19:44	1
Naphthalene	ND		0.0782	0.0105		(3)	08/22/13 09:18	08/23/13 19:44	1
2-Methylnaphthalene	ND		0.0782	0.0187	mg/Kg	n	08/22/13 09:18	08/23/13 19:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	54		29 - 120				08/22/13 09:18	08/23/13 19:44	1

08/23/13 19:44

08/23/13 19:44

Analyzed

08/21/13 11:57

08/22/13 09:18

08/22/13 09:18

Prepared

13 - 120

27 - 120

RL

0.10

RL Unit

0.10 %

70

50

85

Result Qualifier

Dil Fac

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

TestAmerica Job ID: 490-33491-1

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

Lab Sample ID: MB 490-101539/8

Matrix: Solid

Analysis Batch: 101539

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB Result Qualifier MDL Unit Prepared Dil Fac Analyte Analyzed ND 0.00200 0.000670 mg/Kg 08/21/13 13:47 Benzene Ethylbenzene ND 0.00200 0.000670 mg/Kg 08/21/13 13:47 Naphthalene ND 0.00500 0.00170 mg/Kg 08/21/13 13:47 Toluene ND 0.00200 0.000740 mg/Kg 08/21/13 13:47 Xylenes, Total ND 0.00300 0.000670 mg/Kg 08/21/13 13:47

MB Qualifier Limits Prepared Dil Fac Surrogate %Recovery Analyzed 70 - 130 91 1,2-Dichloroethane-d4 (Surr) 08/21/13 13:47 105 70 - 130 4-Bromofluorobenzene (Surr) 08/21/13 13:47 Dibromofluoromethane (Surr) 96 70 - 130 08/21/13 13:47 Toluene-d8 (Surr) 103 70 - 130 08/21/13 13:47

Lab Sample ID: LCS 490-101539/5

Matrix: Solid

Analysis Batch: 101539

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	0.04410		mg/Kg		88	75 - 127	
Ethylbenzene	0.0500	0.05112		mg/Kg		102	80 - 134	
Naphthalene	0.0500	0.06101		mg/Kg		122	69 - 150	
Toluene	0.0500	0.04798		mg/Kg		96	80 - 132	
Xylenes, Total	0.100	0.1038		mg/Kg		104	80 - 137	
Ayleries, Total	0.100	0.1000		iliging		104	00 - 107	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		70 - 130
4-Bromofluorobenzene (Surr)	105		70 - 130
Dibromofluoromethane (Surr)	92		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 101539

Lab Sample ID: LCSD 490-101539/6

Analysis Baten. 101000	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.0500	0.04409		mg/Kg		88	75 - 127	0	50
Ethylbenzene	0.0500	0.04982		mg/Kg		100	80 - 134	3	50
Naphthalene	0.0500	0.05902		mg/Kg		118	69 - 150	3	50
Toluene	0.0500	0.04669		mg/Kg		93	80 - 132	3	50
Xylenes, Total	0.100	0.1020		mg/Kg		102	80 - 137	2	50

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		70 - 130
4-Bromofluorobenzene (Surr)	105		70 - 130
Dibromofluoromethane (Surr)	92		70 - 130
Toluene-d8 (Surr)	102		70 - 130

TestAmerica Nashville

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8/28/2013

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

TestAmerica Job ID: 490-33491-1

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

Lab Sample ID: 490-33510-A-6-C MS

Matrix: Solid

Analysis Batch: 101539

Client	Sample	ID:	Matrix Spike
	_	-	

Prep Type: Total/NA

Prep Batch: 101637

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	ND		0.0520	0.04454		mg/Kg		86	31 - 143	
Ethylbenzene	ND		0.0520	0.04702		mg/Kg		90	23 - 161	
Naphthalene	ND		0.0520	0.01556		mg/Kg		30	10 - 176	
Toluene	ND		0.0520	0.04889		mg/Kg		94	30 - 155	
Xylenes, Total	ND		0.104	0.08270		mg/Kg		80	25 - 162	

MS MS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		70 - 130
4-Bromofluorobenzene (Surr)	138	X	70 - 130
Dibromofluoromethane (Surr)	92		70 - 130
Toluene-d8 (Surr)	115		70 - 130

Lab Sample ID: 490-33510-A-6-D MSD

Matrix: Solid

Analysis Batch: 101539

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

Prep Batch: 101637

Spike MSD MSD Sample Sample %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Benzene ND 0.0562 0.04583 mg/Kg 31 - 143 3 50 ND 0.0562 0.04506 4 50 Ethylbenzene mg/Kg 80 23 - 161 ND 0.0562 0.01095 Naphthalene 19 10 - 176 35 50 mg/Kg ND 0.0562 0.04894 Toluene mg/Kg 87 30 - 155 0 50 Xylenes, Total ND 0.112 0.07929 25 - 162 50 mg/Kg

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		70 - 130
4-Bromofluorobenzene (Surr)	131	×	70 - 130
Dibromofluoromethane (Surr)	94		70 - 130
Toluene-d8 (Surr)	116		70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Lab Sample ID: MB 490-101819/7

Matrix: Solid

Analysis Batch: 101819

	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.100	0.0335	mg/Kg			08/22/13 12:12	1
Ethylbenzene	ND		0.100	0.0335	mg/Kg			08/22/13 12:12	1
Naphthalene	ND		0.250	0.0850	mg/Kg			08/22/13 12:12	1
Toluene	ND		0.100	0.0370	mg/Kg			08/22/13 12:12	1
Xylenes, Total	ND		0.150	0.0335	mg/Kg			08/22/13 12:12	1

ME	B MB				
Surrogate %Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr) 100)	70 - 130		08/22/13 12:12	1
4-Bromofluorobenzene (Surr) 10		70 - 130		08/22/13 12:12	1
Dibromofluoromethane (Surr) 99)	70 - 130		08/22/13 12:12	1
Toluene-d8 (Surr) 102	?	70 - 130		08/22/13 12:12	1

TestAmerica Nashville

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8/28/2013

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

TestAmerica Job ID: 490-33491-1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Lab Sample ID: LCS 490-101819/3

Matrix: Solid

Analysis Batch: 101819

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.0500	0.04497		mg/Kg		90	75 - 127	
Ethylbenzene	0.0500	0.05227		mg/Kg		105	80 - 134	
Naphthalene	0.0500	0.05797		mg/Kg		116	69 - 150	
Toluene	0.0500	0.04835		mg/Kg		97	80 - 132	
Xylenes, Total	0.100	0.1055		mg/Kg		105	80 - 137	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	93		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: LCSD 490-101819/4

Matrix: Solid

Analysis Batch: 101819

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	0.04607		mg/Kg		92	75 - 127	2	50
Ethylbenzene	0.0500	0.05291		mg/Kg		106	80 - 134	1	50
Naphthalene	0.0500	0.06135		mg/Kg		123	69 - 150	6	50
Toluene	0.0500	0.04976		mg/Kg		100	80 - 132	3	50
Xylenes, Total	0.100	0.1067		mg/Kg		107	80 - 137	1	50

LCSD LCSD

ND

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	94		70 - 130
Toluene-d8 (Surr)	102		70 - 130

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

Lab Sample ID: MB 490-101830/1-A

Matrix: Solid

Phenanthrene

Analysis Batch: 102140								Prep Batch:	101830
	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0100	mg/Kg		08/22/13 09:18	08/23/13 17:26	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		08/22/13 09:18	08/23/13 17:26	1
Anthracene	ND		0.0670	0.00900	mg/Kg		08/22/13 09:18	08/23/13 17:26	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		08/22/13 09:18	08/23/13 17:26	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		08/22/13 09:18	08/23/13 17:26	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		08/22/13 09:18	08/23/13 17:26	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		08/22/13 09:18	08/23/13 17:26	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		08/22/13 09:18	08/23/13 17:26	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		08/22/13 09:18	08/23/13 17:26	1
Pyrene	ND		0.0670	0.0120	mg/Kg		08/22/13 09:18	08/23/13 17:26	1

TestAmerica Nashville

08/23/13 17:26

08/22/13 09:18

Client Sample ID: Method Blank

Prep Type: Total/NA

0.0670

0.00900 mg/Kg

Client: Small Business Group Inc. Project/Site: Laurel Bay Site TestAmerica Job ID: 490-33491-1

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

Lab Sample ID: MB 490-101830/1-A

Matrix: Solid

Analysis Batch: 102140

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 101830

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		0.0670	0.00900	mg/Kg		08/22/13 09:18	08/23/13 17:26	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		08/22/13 09:18	08/23/13 17:26	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg		08/22/13 09:18	08/23/13 17:26	1
Fluorene	ND		0.0670	0.0120	mg/Kg		08/22/13 09:18	08/23/13 17:26	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		08/22/13 09:18	08/23/13 17:26	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		08/22/13 09:18	08/23/13 17:26	1
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		08/22/13 09:18	08/23/13 17:26	1

Limits Prepared Dil Fac Surrogate %Recovery Qualifier Analyzed 2-Fluorobiphenyl (Surr) 69 29 - 120 08/22/13 09:18 08/23/13 17:26 Terphenyl-d14 (Surr) 100 13 - 120 08/22/13 09:18 08/23/13 17:26 Nitrobenzene-d5 (Surr) 69 27 - 120 08/22/13 09:18 08/23/13 17:26

Lab Sample ID: LCS 490-101830/2-A

Matrix: Solid

Analysis Batch: 102140

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 101830

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Acenaphthylene 1.67 1.501 mg/Kg 38 - 120 Anthracene 1.67 1.569 mg/Kg 94 46 - 124 Benzo[a]anthracene 1.67 1.564 mg/Kg 94 45 - 120 Benzo[a]pyrene 1.67 1.663 mg/Kg 100 45 - 120 Benzo[b]fluoranthene 1.67 1.661 mg/Kg 100 42 - 120 Benzo[g,h,i]perylene 1.67 1.493 90 38 - 120 mg/Kg Benzo[k]fluoranthene 1.67 1.655 mg/Kg 99 42 - 120 1-Methylnaphthalene 1.67 1.233 mg/Kg 32 - 120 Pyrene 1.67 1.569 mg/Kg 94 43 - 120 Phenanthrene 1.67 1.534 92 45 - 120 mg/Kg Chrysene 1.67 1.561 mg/Kg 94 43 - 120 Dibenz(a,h)anthracene 1.67 1.650 99 32 - 128 mg/Kg Fluoranthene 91 46 - 120 1.67 1.512 mg/Kg Fluorene 1.67 1.526 mg/Kg 92 42 - 120 1.67 1.564 41 - 121 Indeno[1,2,3-cd]pyrene mg/Kg 1.67 1.367 32 - 120 Naphthalene 82 mg/Kg 1.67 2-Methylnaphthalene 1.242 mg/Kg 28 - 120

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	83		29 - 120
Terphenyl-d14 (Surr)	93		13 - 120
Nitrobenzene-d5 (Surr)	75		27 - 120

Lab Sample ID: 490-33491-1 MS

Matrix: Solid

Analysis Batch: 102140

Client Sample ID: 913 Barracuda

Prep Type: Total/NA Prep Batch: 101830

Prep Batch: 101830

	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	ND		1,95	1.637		mg/Kg	D	84	25 - 120
Anthracene	0.167		1.95	1.537		mg/Kg	CI.	70	28 - 125

TestAmerica Nashville

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8/28/2013

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

TestAmerica Job ID: 490-33491-1

Lab Sample ID: 490-33491-1 MS

Matrix: Solid

Analysis Batch: 102140

Client Sample ID: 913 Barracuda

Prep Type: Total/NA

Prep Batch: 101830

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzo[a]anthracene	1.20		1.95	1.815		mg/Kg	iti.	31	23 - 120	
Benzo[a]pyrene	0.582		1.95	1.642		mg/Kg	E	54	15 - 128	
Benzo[b]fluoranthene	1.00		1.95	1.681		mg/Kg	TX.	35	12 - 133	
Benzo[g,h,i]perylene	0.215		1.95	1.404		mg/Kg	n	61	22 - 120	
Benzo[k]fluoranthene	0.463		1.95	1.454		mg/Kg	13.	51	28 - 120	
1-Methylnaphthalene	0.807		1.95	1.923		mg/Kg	13	57	10 - 120	
Pyrene	1.61		1.95	2.090		mg/Kg	Ħ	25	20 - 123	
Phenanthrene	ND		1.95	1.944		mg/Kg	p	100	21 - 122	
Chrysene	1.33		1.95	1.870		mg/Kg	22	28	20 - 120	
Dibenz(a,h)anthracene	0.0875		1.95	1.486		mg/Kg	22	72	12 - 128	
Fluoranthene	1.48		1.95	1.716		mg/Kg	121	12	10 - 143	
Fluorene	0.337		1.95	1.938		mg/Kg	325	82	20 - 120	
Indeno[1,2,3-cd]pyrene	0.220		1.95	1.448		mg/Kg	D	63	22 - 121	
Naphthalene	0.0451	J	1.95	1.320		mg/Kg	52	65	10 - 120	
2-Methylnaphthalene	0.785		1.95	1.899		mg/Kg	B	57	13 - 120	
	***	uc								

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

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	72		29 - 120
Terphenyl-d14 (Surr)	83		13 - 120
Nitrobenzene-d5 (Surr)	62		27 - 120

Lab Sample ID: 490-33491-1 MSD

Matrix: Solid

Analysis Batch: 102140

Client	Sample	ID: 913	Barracuda	

Prep Type: Total/NA

Prep Batch: 101830

Allalysis Datell. 102140									riehi	Datell, I	01030
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthylene	ND		1.94	2.331		mg/Kg	27	120	25 - 120	35	50
Anthracene	0.167		1.94	2.138		mg/Kg	52	102	28 - 125	33	49
Benzo[a]anthracene	1.20		1.94	1.927		mg/Kg	33	37	23 - 120	6	50
Benzo[a]pyrene	0.582		1.94	2.008		mg/Kg	ZZ.	74	15 - 128	20	50
Benzo[b]fluoranthene	1.00		1.94	2.270		mg/Kg	XI	66	12 - 133	30	50
Benzo[g,h,i]perylene	0.215		1.94	1.716		mg/Kg	12	77	22 - 120	20	50
Benzo[k]fluoranthene	0.463		1.94	1.774		mg/Kg	Ø	68	28 - 120	20	45
1-Methylnaphthalene	0.807		1.94	6.000	EF	mg/Kg	222	268	10 - 120	103	50
Pyrene	1.61		1.94	2.319		mg/Kg	13	37	20 - 123	10	50
Phenanthrene	ND		1.94	3.551	F	mg/Kg	D	183	21 - 122	58	50
Chrysene	1.33		1.94	2.011		mg/Kg	D	35	20 - 120	7	49
Dibenz(a,h)anthracene	0.0875		1.94	1.795		mg/Kg	п	88	12 - 128	19	50
Fluoranthene	1.48		1.94	2.089		mg/Kg	n	31	10 - 143	20	50
Fluorene	0.337		1.94	3.087	F	mg/Kg	n	142	20 - 120	46	50
Indeno[1,2,3-cd]pyrene	0.220		1.94	1.765		mg/Kg	12	80	22 - 121	20	50
Naphthalene	0.0451	J	1.94	1.998		mg/Kg	III	101	10 - 120	41	50
2-Methylnaphthalene	0.785		1.94	5.798	EF	mg/Kg	E	259	13 - 120	101	50

MSD	MSD

	,		
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	92		29 - 120
Terphenyl-d14 (Surr)	89		13 - 120

TestAmerica Nashville

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8/28/2013

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

TestAmerica Job ID: 490-33491-1

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

Lab Sample ID: 490-33491-1 MSD

Matrix: Solid

Surrogate

Analysis Batch: 102140

Nitrobenzene-d5 (Surr)

Client Sample ID: 913 Barracuda

Prep Batch: 101830

MSD MSD

Limits %Recovery Qualifier 27 - 120 91

Prep Type: Total/NA

Method: Moisture - Percent Moisture

Lab Sample ID: 490-33491-1 DU

Matrix: Solid

Analysis Batch: 101632

Client Sample ID: 913 Barracuda

Prep Type: Total/NA

DU DU Sample Sample RPD Result Qualifier Result Qualifier Unit D RPD Limit Percent Solids 20

TestAmerica Nashville

QC Association Summary

Client: Small Business Group Inc. Project/Site: Laurel Bay Site TestAmerica Job ID: 490-33491-1

GC/MS VOA

Analys	sis	Bat	tch:	101	539
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-33491-1	913 Barracuda	Total/NA	Solid	8260B	101690
490-33491-2	1208 Cardinal	Total/NA	Solid	8260B	101690
490-33510-A-6-C MS	Matrix Spike	Total/NA	Solid	8260B	101637
490-33510-A-6-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	101637
LCS 490-101539/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-101539/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-101539/8	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 101637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-33510-A-6-C MS	Matrix Spike	Total/NA	Solid	5030B	
490-33510-A-6-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5030B	

Prep Batch: 101690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-33491-1	913 Barracuda	Total/NA	Solid	5035	
490-33491-2	1208 Cardinal	Total/NA	Solid	5035	

Prep Batch: 101694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-33491-1	913 Barracuda	Total/NA	Solid	5035	

Analysis Batch: 101819

Lab Sample ID	Client Sample ID	ient Sample ID Prep Type		Method	Prep Batch
490-33491-1	913 Barracuda	Total/NA	Solid	8260B	101694
LCS 490-101819/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-101819/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-101819/7	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 101830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-33491-1	913 Barracuda	Total/NA	Solid	3550C	
490-33491-1 MS	913 Barracuda	Total/NA	Solid	3550C	
490-33491-1 MSD	913 Barracuda	Total/NA	Solid	3550C	
490-33491-2	1208 Cardinal	Total/NA	Solid	3550C	
LCS 490-101830/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-101830/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 102140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-33491-1	913 Barracuda	Total/NA	Solid	8270D	101830
490-33491-1 MS	913 Barracuda	Total/NA	Solid	8270D	101830
490-33491-1 MSD	913 Barracuda	Total/NA	Solid	8270D	101830
490-33491-2	1208 Cardinal	Total/NA	Solid	8270D	101830
LCS 490-101830/2-A	Lab Control Sample	Total/NA	Solid	8270D	101830
MB 490-101830/1-A	Method Blank	Total/NA	Solid	8270D	101830

TestAmerica Nashville

QC Association Summary

Client: Small Business Group Inc. Project/Site: Laurel Bay Site TestAmerica Job ID: 490-33491-1

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General Chemistry

Analysis Batch: 101632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-33491-1	913 Barracuda	Total/NA	Solid	Moisture	
490-33491-1 DU	913 Barracuda	Total/NA	Solid	Moisture	
490-33491-2	1208 Cardinal	Total/NA	Solid	Moisture	

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Lab Chronicle

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

TestAmerica Job ID: 490-33491-1

Client Sample ID: 913 Barracuda

Date Collected: 08/12/13 16:15 Date Received: 08/20/13 08:20 Lab Sample ID: 490-33491-1

Matrix: Solid

Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			101690	08/21/13 14:28	RRS	TAL NSH
Total/NA	Analysis	8260B		1	101539	08/21/13 20:38	KKK	TAL NSH
Total/NA	Prep	5035			101694	08/21/13 14:29	RRS	TAL NSH
Total/NA	Analysis	8260B		1	101819	08/22/13 15:08	KKK	TAL NSH
Total/NA	Prep	3550C			101830	08/22/13 09:18	JLP	TAL NSH
Total/NA	Analysis	8270D		1	102140	08/23/13 18:21	BES	TAL NSH
Total/NA	Analysis	Moisture		1	101632	08/21/13 11:57	RRS	TAL NSH

Lab Sample ID: 490-33491-2

Client Sample ID: 1208 Cardinal Date Collected: 08/14/13 14:15 Matrix: Solid

Percent Solids: 84.9

Date Received: 08/20/13 08:20

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			101690	08/21/13 14:28	RRS	TAL NSH
Total/NA	Analysis	8260B		1	101539	08/21/13 21:07	KKK	TAL NSH
Total/NA	Prep	3550C			101830	08/22/13 09:18	JLP	TAL NSH
Total/NA	Analysis	8270D		1	102140	08/23/13 19:44	BES	TAL NSH
Total/NA	Analysis	Moisture		1	101632	08/21/13 11:57	RRS	TAL NSH

Laboratory References:

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

Method Summary

Client: Small Business Group Inc. Project/Site: Laurel Bay Site TestAmerica Job ID: 490-33491-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NSH
Moisture	Percent Moisture	EPA	TAL NSH

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

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Certification Summary

Client: Small Business Group Inc. Project/Site: Laurel Bay Site TestAmerica Job ID: 490-33491-1

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Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	ACIL		393	10-30-13
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alaska (UST)	State Program	10	UST-087	07-24-14
Arizona	State Program	9	AZ0473	05-05-14
Arkansas DEQ	State Program	6	88-0737	04-25-14
California	NELAP	9	1168CA	10-31-13
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAP	4	E87358	06-30-14
llinois	NELAP	5	200010	12-09-13
owa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-13
Kentucky (UST)	State Program	4	19	06-30-14
ouisiana	NELAP	6	30613	06-30-14
Maryland	State Program	3	316	03-31-14
Massachusetts	State Program	1	M-TN032	06-30-14
Minnesota	NELAP	5	047-999-345	12-31-13
Mississippi	State Program	4	N/A	06-30-14
Montana (UST)	State Program	8	NA	01-01-15
Vevada	State Program	9	TN00032	07-31-13 *
New Hampshire	NELAP	1	2963	10-10-13
New Jersey	NELAP	2	TN965	06-30-14
New York	NELAP	2	11342	04-01-14
North Carolina DENR	State Program	4	387	12-31-13
North Dakota	State Program	8	R-146	06-30-14
Ohio VAP	State Program	5	CL0033	01-19-14
Oklahoma	State Program	6	9412	08-31-13
Dregon	NELAP	10	TN200001	04-29-14
Pennsylvania	NELAP	3	68-00585	06-30-14
Rhode Island	State Program	1	LAO00268	12-30-13
South Carolina	State Program	4	84009 (001)	02-28-14
South Carolina	State Program	4	84009 (002)	02-23-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-13
JSDA	Federal		S-48469	11-02-13
Itah	NELAP	8	TN00032	07-31-14
/irginia	NELAP	3	460152	06-14-14
Vashington	State Program	10	C789	07-19-14
Vest Virginia DEP	State Program	3	219	02-28-14
Visconsin	State Program	5	998020430	08-31-13
Nyoming (UST)	A2LA	8	453.07	12-31-13

^{*} Expired certification is currently pending renewal and is considered valid.

Nashville, TN

COOLER RECEIPT



Cooler Received/Opened On: 8/20/2013 @ 0820

(last 4 digits, FedEx)

Courier:	Fed-ex	IR Gun: 12080142	

- 1. Temperature of rep. sample or temp blank when opened: $\mathcal{O}_{\mathcal{S}}$
- 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? If yes, how many and where:_

5. Were the seals intact, signed, and dated correctly?

6. Were custody papers inside cooler?

I certify that I opened the cooler and answered questions 1-6 (intial)

7. Were custody seals on containers:

YES

(NO and Intact YES NO YES...NO...NA

YES. NO...NA

...NO...NA

Were these signed and dated correctly?

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

(ce) Ice-pack Ice (direct contact) Dry ice

Other None ES...NO...NA

10. Did all containers arrive in good condition (unbroken)?

VES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)?

..NO...NA

12. Did all container labels and tags agree with custody papers?

..NO...NA

b. Was there any observable headspace present in any VOA vial?

YES. NO...NA

14. Was there a Trip Blank in this cooler?

YES. NO...NA

If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (intial)

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used

YES ... NO ... NA

16. Was residual chlorine present?

13a. Were VOA vials received?

YES...NO..NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial)

YES ... NO ... NA

17. Were custody papers properly filled out (ink, signed, etc)? 18. Did you sign the custody papers in the appropriate place?

ES...NO...NA

19. Were correct containers used for the analysis requested?

KES...NO...NA

20. Was sufficient amount of sample sent in each container?

YES .. NO ... NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial)

I certify that I attached a label with the unique LIMS number to each container (intial)

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_

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Login Sample Receipt Checklist

Client: Small Business Group Inc.

Job Number: 490-33491-1

Login Number: 33491 List Number: 1

Creator: Abernathy, Eric

List Source: TestAmerica Nashville

Question	Answer Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td>	N/A
The cooler's custody seal, if present, is intact.	True
Sample custody seals, if present, are intact.	True
The cooler or samples do not appear to have been compromised or tampered with.	True
Samples were received on ice.	True
Cooler Temperature is acceptable.	True
Cooler Temperature is recorded.	True
COC is present.	True
COC is filled out in ink and legible.	True
COC is filled out with all pertinent information.	True
Is the Field Sampler's name present on COC?	True
There are no discrepancies between the containers received and the COC.	True
Samples are received within Holding Time.	True
Sample containers have legible labels.	True
Containers are not broken or leaking.	True
Sample collection date/times are provided.	True
Appropriate sample containers are used.	True
Sample bottles are completely filled.	True
Sample Preservation Verified.	N/A
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True
Multiphasic samples are not present.	True
Samples do not require splitting or compositing.	True
Residual Chlorine Checked.	N/A

ATTACHMENT A



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	tor's US EPA	A ID NO. M	anifest Doc	NO.	2. Page 1 o		171	633	3 7
2 Generator's Mailing Address:	Thurs			2.74			11	4)	2
3. Generator's Mailing Address:	Gene	Generator's Site Address (If different than mailing):			A. Manifes				
MCAS BEAUFORT						MNA	01519139		
LAUREL BAY HOUSING						B. State G	Generator's	ID	
BEAUFORT, SC 29904									
4. Generator's Phone 843-879-0411									
5. Transporter 1 Company Name Carolina	Contain	6. US EPA I	O Number						
P.O.BOX 1925	20000				C. State Tr	ansporter's IC			
108PG 277A					D. Transpo	orter's Phone	X431	299.	15
7. Transporter 2 Company Name		8. US EPA I	Number 1				1		
					E. State Tr	ansporter's ID)		
					F. Transpo	rter's Phone			
9. Designated Facility Name and Site Address		10. US EPA	ID Number						
HICKORY HILL LANDFILL					G. State Facility ID				
2621 LOW COUNTRY DRIVE					H. State Facility Phone 843-987-464			87-4643	3
RIDGELAND, SC 29936					A TOTAL				
		Variation	12.00	ontainers	13. Total	14. Unit			
11. Description of Waste Materials			No.	Туре	Quantity	Wt./Vol.	I. M	isc. Commen	ts
a. HEATING OIL TANK FILLED WITH SAN	D		420	Street	0.0	-	17.00	22	5
			1	204	8.60	1010	7/6	25	5
WM Profile # 102	655SC			1					
b.									
WM Profile #					1				-
c.						N = 20 - 1			
				1					
WM Profile #						11 22 20		-	
d.									-
Total Annual Control			-						
WM Profile #			W 5:	11 11	·	-			
J. Additional Descriptions for Materials Listed A	Above		K. Dispo	sal Location					
			Cell				Level		
			Grid		7.7.6		ECVC.		
				11171	45 D	OUR	6)111	1 20	mi
15. Special Handling Instructions and Additional	Information	5 DOUE V	-	5)11	11->		214	287	7
15. Special Handling Instructions and Additional I	Information	ST DONE V	055	5)14	45 D	DUEVE	2/20	38 Cm	nd.
15. Special Handling Instructions and Additional 1	Information 128	S DOUE V 24 Albati	055	711	45 D	OUEV	2/20	28 CM	nd
Purchase Order # 3	Information 128	24 Albata	055	711	45 D	OUE'	2/20	38 Cm	nd
Purchase Order # 3 16. GENERATOR'S CERTIFICATE:) 142	EMERGENCY CO	NTACT / PH	ONE NO.:					
Purchase Order # 3	als are not ha	EMERGENCY CO	NTACT / PH	ONE NO.:	or any applic	able state law			
Purchase Order # 3 16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materia	als are not ha	EMERGENCY CO	NTACT / PH	ONE NO.:	or any applic	able state law			
Purchase Order #	als are not had are in prop	EMERGENCY CO	NTACT / PH	ONE NO.:	or any applic	able state law	, have been	fully and	
Purchase Order #	als are not had are in prop	EMERGENCY CO	NTACT / PH	ONE NO.:	or any applic	able state law	, have been	fully and	
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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)

111 Birch 363 Aspen 123 Banyan 364 Aspen 131 Banyan 366 Aspen 134 Banyan 369 Aspen 145 Laurel Bay 373 Aspen 150 Laurel Bay 401 Elderberry 154 Laurel Bay 402 Elderberry 155 Laurel Bay 404 Elderberry 200 Balsam 410 Elderberry 201 Balsam 420 Elderberry 202 Balsam 424 Elderberry 203 Balsam 452 Elderberry 204 Balsam 452 Elderberry 210 Balsam 452 Elderberry 211 Balsam 460 Elderberry 220 Cypress 465 Dogwood 222 Cypress 487 Laurel Bay 223 Cypress 487 Laurel Bay 252 Beech Tank 2 513 Laurel Bay 271 Beech Tank 1 519 Laurel Bay 271 Beech Tank 2 524 Laurel Bay 284 Birch Tank 1 535 Laurel Bay 284 Birch Tank 2 553 Dahlia 308 Ash 590 Aster 311 Ash 591 Aster 312 Ash 610 Dahlia 313 Ash 628 Dahlia 337	111 Direct	262 Asman
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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	