SUMMARY REPORT

130 WEST CARDINAL LANE (FORMERLY 1213 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 130 West Cardinal Lane (Formerly 1213 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 130 West Cardinal Lane (Formerly 1213 West Cardinal Lane). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 1213 West Cardinal Lane* (MCAS Beaufort, 2015). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On January 22, 2015, a single 280 gallon heating oil UST was removed from the back yard adjacent to the patio area at 130 West Cardinal Lane (Formerly 1213 West Cardinal Lane). 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 5'10" bgs and a single soil sample was collected from that depth. The sample was collected from the fill port side of the former UST to represent a worst case scenario.

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

2.2 Soil Analytical Results

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

The soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form (Appendix B). The results of the soil sampling at the former UST location were used by MCAS Beaufort, in consultation with SCDHEC, to determine a path forward (i.e., additional sampling or NFA) for the property. The soil results collected from 130 West Cardinal Lane (Formerly 1213 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 130 West Cardinal Lane (Formerly 1213 West Cardinal Lane). 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 – 1213 West Cardinal Lane, Laurel Bay Military Housing Area, July 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 130 West Cardinal Lane (Formerly 1213 West Cardinal Lane)

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

Constituent	SCDHEC RBSLs (1)	Results Sample Collected 01/22/15
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	yzed by EPA Method 8270D (mg/kg)	
Benzo(a)anthracene	0.66	0.0191
Benzo(b)fluoranthene	0.66	0.109
Benzo(k)fluoranthene	0.66	0.0141
Chrysene	0.66	0.0675
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

Date Received
State Use Only

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

I. OWNERSHIP OF UST (S)

MCAS Beaufort, Co Owner Name (Corporation	mmanding Officer Attn: N n, Individual, Public Agency, Other)	REAO (Craig Ehde)
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 Milita	ry Housing Area, Marine Corps Air Station, Beaufort, SC Site Identifier
Facility Name or Company	Site Identifier
1213 Cardinal Lar	ne, Laurel Bay Military Housing Area
Street Address or State Roa	ad (as applicable)
Beaufort,	Beaufort
City	County

Attachment 2

III. INSURANCE INFORMATION

	Insurance S	tatement
qualify to receive state monie	s to pay for appropriate site refund, written confirmation of	at Permit ID Number may ehabilitation activities. Before participation is f the existence or non-existence of an environmental sted.
UST release? YES_	NO (check one)	olicy or other financial mechanism that covers this
If you answere	d YES to the above question,	please complete the following information:
	My policy provider is: The policy deductible is: The policy limit is:	
If you have this type o	f insurance, please include a	copy of the policy with this report.
I DO / DO NOT wi	sh to participate in the SUPE CERTIFICATION (To	RB Program. (Circle one.) be be signed by the UST owner)
I certify that I have persona attached documents; and the information, I believe that the		liar with the information submitted in this and a of those individuals responsible for obtaining this true, accurate, and complete.
Name (Type or print.)		
Signature To be completed by No.	otary Public:	
Sworn before me this		_, 20
(Name)		5
Notary Public for the state of Please affix State seal if you a	re commissioned outside Sou	th Carolina

VI. UST INFORMATION	1213 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	5'10"
Spill Prevention Equipment Y/N	No
Overfill Prevention Equipment Y/N	No
Method of Closure Removed/Filled	Removed
Date Tanks Removed/Filled	1/22/2015
Visible Corrosion or Pitting Y/N	Yes
Visible Holes Y/N	Yes
Method of disposal for any USTs removed from the UST 1213Cardinal was removed fro	
at a Subtitle "D" landfill. See	Attachment "A".
Method of disposal for any liquid petroleum, sludge disposal manifests) UST 1213Cardinal was previously	
	Capacity(ex. 1k, 2k)

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, corrosion and pitting were foun pipe. Copper supply and return	d on the surface of t	
VIII. BRIEF SITE DESCR	constructed of single	wall stee
The USTs at the residences are and formerly contained fuel oil	constructed of single for heating. These US	wall stee STs were
The USTs at the residences are	constructed of single for heating. These US	wall stee STs were
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IX. SITE CONDITIONS

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

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#
1213 Cardinal	Excav at fill end	Soil	Sandy	5'10"	1/22/15 1115 hrs	P. Shaw	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

^{* =} Depth Below the Surrounding Land Surface

XI. SAMPLING METHODOLOGY

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

Sampling was performed in accordance with SC DHEC R.61-92 Part 280
and SC DHEC Assessment Guidelines. Sample containers were prepared by th
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 contamination? *Sewer, water, electricity cable, fiber optic & geothermal If yes, indicate the type of utility, distance, and direction on the site map.

X

E. Has contaminated soil been identified at a depth less than 3 feet

concrete?

below land surface in an area that is not capped by asphalt or

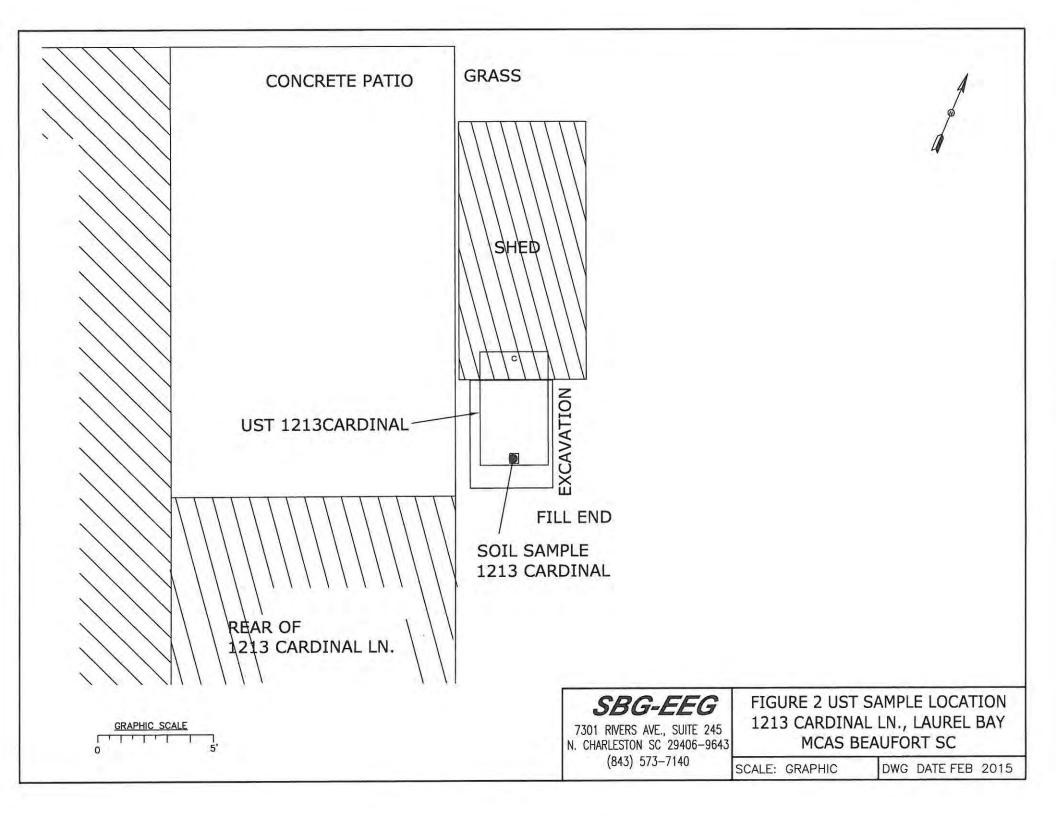
If yes, indicate the area of contaminated soil on the site map.

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 ≈ 130' CONCRETE **PATIO UST 1213CARDINAL** 280 GAL. 1213 CARDINAL LAUREL BAY MILTARY HOUSING MCAS BEAUFOR **ASPHALT** GRAPHIC SCALE DRIVEWAY 20' 10' SBG-EEG FIGURE 1 SITE MAP 1213 CARDINAL LN., LAUREL BAY **UST 1213CARDINAL WAS** 7301 RIVERS AVE., SUITE 245 N. CHARLESTON SC 29406-9643 MCAS BEAUFORT SC 34" BELOW GRADE. (843) 573-7140 SCALE: GRAPHIC DWG DATE FEB 2015





Picture 1: Location of UST 1213Cardinal.



Picture 2: UST 1213Cardinal's excavation.



Picture 3 Site after completion of tank removal.



Picture 4: 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	1213Cardinal			
Benzene	ND			
Toluene	ND			
Ethylbenzene	ND			
Xylenes	ND			
Naphthalene	ND			
Benzo (a) anthracene	0.0191 mg/kg			
Benzo (b) fluoranthene	0.109 mg/kg			
Benzo (k) fluoranthene	0.0141 mg/kg	The state of the s		
Chrysene	0.0675 mg/kg			
Dibenz (a, h) anthracene	ND			
TPH (EPA 3550)				
CoC				
Benzene				
Toluene				
Ethylbenzene	H			
Xylenes			4 9 1 10 -	
Naphthalene				
Benzo (a) anthracene				
Benzo (b) fluoranthene		-1		
Benzo (k) fluoranthene		J. E		
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	o the nearest	0.01 feet.

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

XV. ANALYTICAL RESULTS

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

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



TestAmerica

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: 490-71072-1

Client Project/Site: Laurel Bay Housing Project

For:

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

Attn: Tom McElwee

Kuntll Hay

Authorized for release by: 2/6/2015 4:57:39 PM

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

ken.hayes@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 Housing Project TestAmerica Job ID: 490-71072-1

Lab Sample ID	Client Sample ID	Matrix	Collected
490-71072-1	420 Elderberry	Soil	01/19/15 12:45
490-71072-2	410 Elderberry	Soil	01/20/15 13:45
490-71072-3	317 Ash	Soil	01/21/15 14:30
490-71072-4	1213 Cardinal	Soil	01/22/15 11:15





Received 01/23/15 08:40 01/23/15 08:40 01/23/15 08:40 01/23/15 08:40















Case Narrative

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-71072-1

Job ID: 490-71072-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-71072-1

Comments

No additional comments.

Receipt

The samples were received on 1/23/2015 8:40 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 batch 223348. (LCS 490-223348/7)

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

GC/MS Semi VOA

Method(s) 8270C, 8270C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 223441.

No additional analytical or quality issues were noted, other than those described above or 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.















Definitions/Glossary

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

TestAmerica Job ID: 490-71072-1

Qualifiers

GC/MS VOA

Qualifier **Qualifier Description**

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

GC/MS Semi VOA

Qualifier **Qualifier Description**

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

Glossary

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

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

PQL Practical Quantitation Limit

QC Quality Control RER Relative error ratio

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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















Client Sample Results

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

TestAmerica Job ID: 490-71072-1

Client Sample ID: 420 Elderberry

Date Collected: 01/19/15 12:45 Date Received: 01/23/15 08:40

Lab Sample ID: 490-71072-1

Matrix: Soil Percent Solids: 93.1

Percent Solids	93		0.10	0.10	%			01/23/15 15:41	1
General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	11		21 - 120				01120/13 08:04	01/28/15 16:54	1
Nitrobenzene-d5 (Surr)	71		27 - 120				01/28/15 08:04 01/28/15 08:04	01/28/15 16:54	1
Z-Pluorobiphenyi (Surr) Terphenyi-d14 (Surr)	67		13 - 120				01/28/15 08:04	01/28/15 16:54	1
Surrogate 2-Fluorobiphenyl (Surr)	%Recovery 68	Qualifier	Limits 29 - 120				Prepared	Analyzed	Dil Fac
Surrogate	% Boowers	Ovalifier	Limita						
2-Methylnaphthalene	ND		0.0642	0.0153		n	01/28/15 08:04	01/28/15 16:54	1
Naphthalene	ND		0.0642	0.00863		n	01/28/15 08:04	01/28/15 16:54	1
Indeno[1,2,3-cd]pyrene	ND		0.0642	0.00959	mg/Kg	n	01/28/15 08:04	01/28/15 16:54	1
Fluorene	ND		0.0642	0.0115		п	01/28/15 08:04	01/28/15 16:54	1
Fluoranthene	ND		0.0642	0.00863	mg/Kg	n	01/28/15 08:04	01/28/15 16:54	1
Dibenz(a,h)anthracene	ND		0.0642	0.00671	mg/Kg	Li	01/28/15 08:04	01/28/15 16:54	1
Chrysene	ND		0.0642	0.00863		=======================================	01/28/15 08:04	01/28/15 16:54	1
Phenanthrene	ND		0.0642	0.00863	mg/Kg	24	01/28/15 08:04	01/28/15 16:54	1
Pyrene	ND		0.0642	0.0115		n	01/28/15 08:04	01/28/15 16:54	1
1-Methylnaphthalene	ND		0.0642	0.0134	mg/Kg	n	01/28/15 08:04	01/28/15 16:54	1
Benzo[k]fluoranthene	ND		0.0642	0.0134	7.7	п	01/28/15 08:04	01/28/15 16:54	1
Benzo[g,h,i]perylene	ND		0.0642	0.00863		14	01/28/15 08:04	01/28/15 16:54	1
Benzo[b]fluoranthene	ND		0.0642	0.0115		n	01/28/15 08:04	01/28/15 16:54	1
Benzo[a]pyrene	ND		0.0642	0.0115		n	01/28/15 08:04	01/28/15 16:54	1
Benzo[a]anthracene	ND		0.0642	0.0144		n	01/28/15 08:04	01/28/15 16:54	1
Anthracene	ND		0.0642	0.00863	mg/Kg	n	01/28/15 08:04	01/28/15 16:54	1
Acenaphthylene	ND		0.0642	0.00863		n	01/28/15 08:04	01/28/15 16:54	1
Acenaphthene	ND		0.0642	0.00959		¤	01/28/15 08:04	01/28/15 16:54	1
Method: 8270D - Semivolatile Analyte	The state of the s	nds (GC/MS	S)	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		70 - 130				01/19/15 12:45	01/27/15 21:16	1
Dibromofluoromethane (Surr)	91		70 - 130				01/19/15 12:45	01/27/15 21:16	1
4-Bromofluorobenzene (Surr)	125		70 - 130				01/19/15 12:45	01/27/15 21:16	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 130				01/19/15 12:45	01/27/15 21:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.00335	0.000748	mg/Kg	21.	01/19/15 12:45	01/27/15 21:16	1
Toluene	ND		0.00223	0.000827	mg/Kg	n	01/19/15 12:45	01/27/15 21:16	1
Naphthalene	ND		0.00558	0.00190	mg/Kg	1.85	01/19/15 12:45	01/27/15 21:16	1
Ethylbenzene	ND		0.00223	0.000748	mg/Kg	n	01/19/15 12:45	01/27/15 21:16	1
Benzene	ND		0.00223	0.000748	mg/Kg	22	01/19/15 12:45	01/27/15 21:16	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Method: 8260B - Volatile Orga	anic Compounds	(GC/MS)							
ate Received. 0 1/23/13 00.40								Percent Soll	ds: 93.1

Client Sample Results

Client: Small Business Group Inc.

Project/Site: Laurel Bay Housing Project

Lab Sample ID: 490-71072-2

TestAmerica Job ID: 490-71072-1

Matrix: Soil

Percent Solids: 95.2

Client Sample ID: 410 Elderberry

Date Collected: 01/20/15 13:45 Date Received: 01/23/15 08:40

Percent Solids

								i di delli delli	MO. DO.L
Method: 8260B - Volatile Orga	nic Compounds	(GC/MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00210	0.000705	mg/Kg	3.2	01/20/15 13:45	01/27/15 20:45	1
Ethylbenzene	ND		0.00210	0.000705	mg/Kg	n	01/20/15 13:45	01/27/15 20:45	1
Naphthalene	ND		0.00526	0.00179	mg/Kg	11	01/20/15 13:45	01/27/15 20:45	1
Toluene	ND		0.00210	0.000778	mg/Kg	n	01/20/15 13:45	01/27/15 20:45	1
Xylenes, Total	ND		0.00316	0.000705	mg/Kg	n	01/20/15 13:45	01/27/15 20:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 130				01/20/15 13:45	01/27/15 20:45	1
4-Bromofluorobenzene (Surr)	128		70 - 130				01/20/15 13:45	01/27/15 20:45	1
Dibromofluoromethane (Surr)	91		70 - 130				01/20/15 13:45	01/27/15 20:45	1
Toluene-d8 (Surr)	102		70 - 130				01/20/15 13:45	01/27/15 20:45	1
Method: 8270D - Semivolatile	Organic Compou	inds (GC/MS	3)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0697	0.0104	mg/Kg	n	01/24/15 10:50	01/25/15 19:34	1
Acenaphthylene	ND		0.0697	0.00936	mg/Kg	11	01/24/15 10:50	01/25/15 19:34	1
Anthracene	ND		0.0697	0.00936	mg/Kg	Ħ	01/24/15 10:50	01/25/15 19:34	1
Benzo[a]anthracene	ND		0.0697	0.0156	mg/Kg	n	01/24/15 10:50	01/25/15 19:34	1
Benzo[a]pyrene	ND		0.0697	0.0125	mg/Kg	x	01/24/15 10:50	01/25/15 19:34	1
Benzo[b]fluoranthene	ND		0.0697	0.0125	mg/Kg	\$1	01/24/15 10:50	01/25/15 19:34	1
Benzo[g,h,i]perylene	ND		0.0697	0.00936	mg/Kg	W.	01/24/15 10:50	01/25/15 19:34	1
Benzo[k]fluoranthene	ND		0.0697	0.0146	mg/Kg	n	01/24/15 10:50	01/25/15 19:34	1
1-Methylnaphthalene	ND		0.0697	0.0146	mg/Kg	п	01/24/15 10:50	01/25/15 19:34	1
Pyrene	ND		0.0697	0.0125	mg/Kg	n	01/24/15 10:50	01/25/15 19:34	1
Phenanthrene	ND		0.0697	0.00936	mg/Kg	I.	01/24/15 10:50	01/25/15 19:34	1
Chrysene	ND		0.0697	0.00936	mg/Kg	n	01/24/15 10:50	01/25/15 19:34	1
Dibenz(a,h)anthracene	ND		0.0697	0.00728	mg/Kg	71	01/24/15 10:50	01/25/15 19:34	1
Fluoranthene	ND		0.0697	0.00936	mg/Kg	22	01/24/15 10:50	01/25/15 19:34	1
Fluorene	ND		0.0697	0.0125	mg/Kg	8.5	01/24/15 10:50	01/25/15 19:34	1
Indeno[1,2,3-cd]pyrene	ND		0.0697	0.0104	mg/Kg	77	01/24/15 10:50	01/25/15 19:34	1
Naphthalene	ND		0.0697	0.00936	mg/Kg	n	01/24/15 10:50	01/25/15 19:34	1
2-Methylnaphthalene	ND		0.0697	0.0166	mg/Kg	п	01/24/15 10:50	01/25/15 19:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	57		29 - 120				01/24/15 10:50	01/25/15 19:34	1
Terphenyl-d14 (Surr)	56		13 - 120				01/24/15 10:50	01/25/15 19:34	1
Nitrobenzene-d5 (Surr)	54		27 - 120				01/24/15 10:50	01/25/15 19:34	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Develop Callida			0.40	0.40	07			2102.02/12/05	

01/23/15 15:41

0.10

0.10 %

95

Client Sample Results

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

TestAmerica Job ID: 490-71072-1

Client Sample ID: 317 Ash

Date Collected: 01/21/15 14:30 Date Received: 01/23/15 08:40 Lab Sample ID: 490-71072-3

Matrix: Soil

Percent Solids: 81.0

Method: 8260B - Volatile Orga	The second second second	The state of the s							
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00210	0.000703		×	01/21/15 14:30	01/27/15 20:15	1
Ethylbenzene	ND		0.00210	0.000703	1000	n	01/21/15 14:30	01/27/15 20:15	1
Naphthalene	0.00232	J	0.00524		mg/Kg	n	01/21/15 14:30	01/27/15 20:15	1
Toluene	ND		0.00210	0.000776	mg/Kg	73	01/21/15 14:30	01/27/15 20:15	1
Xylenes, Total	ND		0.00315	0.000703	mg/Kg	n	01/21/15 14:30	01/27/15 20:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 130				01/21/15 14:30	01/27/15 20:15	1
4-Bromofluorobenzene (Surr)	129		70 - 130				01/21/15 14:30	01/27/15 20:15	1
Dibromofluoromethane (Surr)	93		70 - 130				01/21/15 14:30	01/27/15 20:15	1
Toluene-d8 (Surr)	102		70 - 130				01/21/15 14:30	01/27/15 20:15	1
Method: 8270D - Semivolatile	Organic Compou	nds (GC/MS	3)						
Analyte	The second secon	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0548	J	0.0819	0.0122	mg/Kg	22	01/24/15 10:50	01/25/15 19:56	1
Acenaphthylene	ND		0.0819	0.0110	mg/Kg	5.7	01/24/15 10:50	01/25/15 19:56	1
Anthracene	ND		0.0819	0.0110	mg/Kg	n	01/24/15 10:50	01/25/15 19:56	1
Benzo[a]anthracene	0.0632	J	0.0819	0.0183	mg/Kg	n	01/24/15 10:50	01/25/15 19:56	1
Benzo[a]pyrene	ND		0.0819	0.0147	mg/Kg	Ħ	01/24/15 10:50	01/25/15 19:56	1
Benzo[b]fluoranthene	0.0446	J	0.0819	0.0147	mg/Kg	n	01/24/15 10:50	01/25/15 19:56	1
Benzo[g,h,i]perylene	ND		0.0819	0.0110	mg/Kg	13	01/24/15 10:50	01/25/15 19:56	1
Benzo[k]fluoranthene	ND		0.0819	0.0171	mg/Kg	n	01/24/15 10:50	01/25/15 19:56	1
1-Methylnaphthalene	0.347		0.0819	0.0171	mg/Kg	¤	01/24/15 10:50	01/25/15 19:56	1
Pyrene	0.132		0.0819	0.0147	mg/Kg	n	01/24/15 10:50	01/25/15 19:56	1
Phenanthrene	0.246		0.0819	0.0110	mg/Kg	n	01/24/15 10:50	01/25/15 19:56	1
Chrysene	0.0623	J	0.0819	0.0110	mg/Kg	r	01/24/15 10:50	01/25/15 19:56	1
Dibenz(a,h)anthracene	ND		0.0819	0.00856	mg/Kg	a	01/24/15 10:50	01/25/15 19:56	1
Fluoranthene	0.160		0.0819	0.0110	mg/Kg	n	01/24/15 10:50	01/25/15 19:56	1
Fluorene	0.0964		0.0819	0.0147		n	01/24/15 10:50	01/25/15 19:56	1
Indeno[1,2,3-cd]pyrene	ND		0.0819	0.0122	700	12	01/24/15 10:50	01/25/15 19:56	1
Naphthalene	ND		0.0819	0.0110		n	01/24/15 10:50	01/25/15 19:56	1
2-Methylnaphthalene	0.538		0.0819	0.0196		п	01/24/15 10:50	01/25/15 19:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	75	174 50000000 840	29 - 120				01/24/15 10:50	01/25/15 19:56	DII Fac
Terphenyl-d14 (Surr)	72		13 - 120				01/24/15 10:50	01/25/15 19:56	1
Nitrobenzene-d5 (Surr)	69		27 - 120				01/24/15 10:50	01/25/15 19:56	1
General Chemistry									
Analyte	Result	Qualifier	RL	RI	Unit	D	Prepared	Analysed	Diller
Percent Solids	81		0.10	0.10	45.1456	U	riepareu	Analyzed	Dil Fac

Client Sample Results

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

TestAmerica Job ID: 490-71072-1

Client Sample ID: 1213 Cardinal

Date Collected: 01/22/15 11:15 Date Received: 01/23/15 08:40 Lab Sample ID: 490-71072-4

Matrix: Soil

Percent Solids: 89.9

Analyte	Recult	Qualifier	RL	MOL	Unit	D	Duranana	ALC: COM	
Benzene	ND	Qualifier	0.00222		2000	u	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.00222	0.000743	mg/Kg	z z	01/22/15 11:15	01/27/15 19:44	1
Naphthalene	ND		0.00222	0.000743	mg/Kg	n	01/22/15 11:15	01/27/15 19:44	1
Toluene	ND		0.00334	0.00188	mg/Kg	n	01/22/15 11:15	01/27/15 19:44	1
Xylenes, Total	ND		0.00222	0.000820	mg/Kg	n	01/22/15 11:15	01/27/15 19:44	1
Aylenes, Total	ND		0.00333	0.000743	mg/Kg	м	01/22/15 11:15	01/27/15 19:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 130				01/22/15 11:15	01/27/15 19:44	1
4-Bromofluorobenzene (Surr)	125		70 - 130				01/22/15 11:15	01/27/15 19:44	1
Dibromofluoromethane (Surr)	95		70 - 130				01/22/15 11:15	01/27/15 19:44	1
Toluene-d8 (Surr)	103		70 - 130				01/22/15 11:15	01/27/15 19:44	1
Method: 8270D - Semivolatile (Organic Compou	nds (GC/MS	3)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0655	0.00977	mg/Kg	27	01/28/15 08:04	01/28/15 17:17	1
Acenaphthylene	0.110		0.0655	0.00880	mg/Kg	27	01/28/15 08:04	01/28/15 17:17	4
Anthracene	ND		0.0655	0.00880	mg/Kg	ŭ	01/28/15 08:04	01/28/15 17:17	1
Benzo[a]anthracene	0.0191	J	0.0655	0.0147	mg/Kg	n	01/28/15 08:04	01/28/15 17:17	1
Benzo[a]pyrene	0.0176	J	0.0655	0.0117	mg/Kg	n	01/28/15 08:04	01/28/15 17:17	1
Benzo[b]fluoranthene	0.109		0.0655	0.0117	mg/Kg	n	01/28/15 08:04	01/28/15 17:17	1
Benzo[g,h,i]perylene	0.127		0.0655	0.00880	mg/Kg	п	01/28/15 08:04	01/28/15 17:17	1
Benzo[k]fluoranthene	0.0141	J	0.0655	0.0137	mg/Kg	33	01/28/15 08:04	01/28/15 17:17	1
1-Methylnaphthalene	ND		0.0655	0.0137	mg/Kg	n	01/28/15 08:04	01/28/15 17:17	1
Pyrene	ND		0.0655	0.0117	mg/Kg	n	01/28/15 08:04	01/28/15 17:17	1
Phenanthrene	0.0502	J	0.0655	0.00880	mg/Kg	n	01/28/15 08:04	01/28/15 17:17	1
Chrysene	0.0675		0.0655	0.00880	mg/Kg	Ħ	01/28/15 08:04	01/28/15 17:17	1
Dibenz(a,h)anthracene	ND		0.0655	0.00684	mg/Kg	n	01/28/15 08:04	01/28/15 17:17	1
Fluoranthene	ND		0.0655	0.00880	mg/Kg	n	01/28/15 08:04	01/28/15 17:17	1
Fluorene	ND		0.0655	0.0117	mg/Kg	n	01/28/15 08:04	01/28/15 17:17	1
Indeno[1,2,3-cd]pyrene	0.0943		0.0655	0.00977	mg/Kg	Ħ	01/28/15 08:04	01/28/15 17:17	1
Naphthalene	ND		0.0655	0.00880	mg/Kg	n	01/28/15 08:04	01/28/15 17:17	1
2-Methylnaphthalene	ND		0.0655	0.0156	mg/Kg	п	01/28/15 08:04	01/28/15 17:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	79		29 - 120				01/28/15 08:04	01/28/15 17:17	1
Terphenyl-d14 (Surr)	67		13 - 120				01/28/15 08:04	01/28/15 17:17	1
Nitrobenzene-d5 (Surr)	69		27 - 120				01/28/15 08:04	01/28/15 17:17	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90		0.10	0.10	%			01/23/15 15:41	1

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

TestAmerica Job ID: 490-71072-1

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

Lab Sample ID: MB 490-223348/9

Matrix: Solid

Analysis Batch: 223348

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB Analyte Qualifier RL Result MDL Unit Prepared Dil Fac Analyzed Benzene 0.000670 mg/Kg ND 0.00200 01/27/15 19:14 Ethylbenzene ND 0.00200 0.000670 mg/Kg 01/27/15 19:14 Naphthalene ND 0.00500 0.00170 mg/Kg 01/27/15 19:14 Toluene ND 0.00200 0.000740 mg/Kg 01/27/15 19:14 Xylenes, Total ND 0.00300 0.000670 mg/Kg 01/27/15 19:14

70 - 130

MB MB %Recovery Qualifier Limits Prepared Dil Fac Analyzed 70 - 130 85 01/27/15 19:14 122 70 - 130 01/27/15 19:14 91 70 - 130 01/27/15 19:14

Lab Sample ID: LCS 490-223348/7

Matrix: Solid

Toluene-d8 (Surr)

Surrogate

Analysis Batch: 223348

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

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

01/27/15 19:14

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.0500 0.04471 mg/Kg 89 75 - 127 Ethylbenzene 0.0500 0.05084 mg/Kg 102 80 - 134 Naphthalene 0.0500 0.06157 mg/Kg 123 69 - 150 Toluene 0.0500 0.04702 mg/Kg 94 80 - 132 Xylenes, Total 0.09620 0.100 mg/Kg 96 80 - 137

105

LCS LCS Surrogate Qualifier Limits %Recovery 1,2-Dichloroethane-d4 (Surr) 98 70 - 130 4-Bromofluorobenzene (Surr) 123 70 - 130 Dibromofluoromethane (Surr) 92 70 - 130 Toluene-d8 (Surr) 103 70 - 130

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

Lab Sample ID: MB 490-222681/1-A

Matrix: Solid

Analysis Batch: 222860

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 222681

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0100	mg/Kg		01/24/15 10:50	01/25/15 17:19	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		01/24/15 10:50	01/25/15 17:19	1
Anthracene	ND		0.0670	0.00900	mg/Kg		01/24/15 10:50	01/25/15 17:19	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		01/24/15 10:50	01/25/15 17:19	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		01/24/15 10:50	01/25/15 17:19	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		01/24/15 10:50	01/25/15 17:19	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		01/24/15 10:50	01/25/15 17:19	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		01/24/15 10:50	01/25/15 17:19	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		01/24/15 10:50	01/25/15 17:19	1
Pyrene	ND		0.0670	0.0120	mg/Kg		01/24/15 10:50	01/25/15 17:19	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		01/24/15 10:50	01/25/15 17:19	1

TestAmerica Nashville

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Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-71072-1

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

Lab Sample ID: MB 490-222681/1-A

Matrix: Solid

Analysis Batch: 222860

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

Prep Batch: 222681

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		0.0670	0.00900	mg/Kg		01/24/15 10:50	01/25/15 17:19	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		01/24/15 10:50	01/25/15 17:19	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg		01/24/15 10:50	01/25/15 17:19	1
Fluorene	ND		0.0670	0.0120	mg/Kg		01/24/15 10:50	01/25/15 17:19	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		01/24/15 10:50	01/25/15 17:19	1
Naphthalene	1 ND		0.0670	0.00900	mg/Kg		01/24/15 10:50	01/25/15 17:19	1
2-Methylnaphthalene	ND		0.0670	0.0160	ma/Ka		01/24/15 10:50	01/25/15 17:10	

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	68	29 - 120	01/24/15 10:50	01/25/15 17:19	1
Terphenyl-d14 (Surr)	64	13 - 120	01/24/15 10:50	01/25/15 17:19	1
Nitrobenzene-d5 (Surr)	67	27 - 120	01/24/15 10:50	01/25/15 17:19	1

Lab Sample ID: LCS 490-222681/2-A

Matrix: Solid

Analysis Batch: 222860

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

Prep Batch: 222681

Analysis Daton. 222000							Prep
	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	1.67	1.264		mg/Kg		76	38 - 120
Anthracene	1.67	1.269		mg/Kg		76	46 - 124
Benzo[a]anthracene	1.67	1.301		mg/Kg		78	45 - 120
Benzo[a]pyrene	1.67	1.269		mg/Kg		76	45 - 120
Benzo[b]fluoranthene	1.67	1.301		mg/Kg		78	42 - 120
Benzo[g,h,i]perylene	1.67	1.471		mg/Kg		88	38 - 120
Benzo[k]fluoranthene	1.67	1.217		mg/Kg		73	42 - 120
1-Methylnaphthalene	1.67	1.214		mg/Kg		73	32 - 120
Pyrene	1.67	1.211		mg/Kg		73	43 - 120
Phenanthrene	1.67	1.255		mg/Kg		75	45 - 120
Chrysene	1.67	1.287		mg/Kg		77	43 - 120
Dibenz(a,h)anthracene	1.67	1.434		mg/Kg		86	32 - 128
Fluoranthene	1.67	1.231		mg/Kg		74	46 - 120
Fluorene	1.67	1.305		mg/Kg		78	42 - 120
Indeno[1,2,3-cd]pyrene	1.67	1.426		mg/Kg		86	41 - 121
Naphthalene	1.67	1.244		mg/Kg		75	32 - 120
2-Methylnaphthalene	1.67	1.204		mg/Kg		72	28 - 120

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	69		29 - 120
Terphenyl-d14 (Surr)	63		13 - 120
Nitrobenzene-d5 (Surr)	69		27 - 120

Lab Sample ID: LCSD 490-222681/16-A

Matrix: Solid

Analysis Batch: 222860							Prep I	Batch: 2	22681
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthylene	1.67	1.291		mg/Kg		77	38 - 120	2	50
Anthracene	1.67	1.297		mg/Kg		78	46 - 124	2	49

TestAmerica Nashville

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

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Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-71072-1

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

Lab Sample ID: LCSD 490-222681/16-A

Matrix: Solid

Analysis Batch: 222860

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 222681

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzo[a]anthracene	1.67	1.316		mg/Kg		79	45 - 120	1	50
Benzo[a]pyrene	1.67	1.263		mg/Kg		76	45 - 120	1	50
Benzo[b]fluoranthene	1.67	1.335		mg/Kg		80	42 - 120	3	50
Benzo[g,h,i]perylene	1.67	1.500		mg/Kg		90	38 - 120	2	50
Benzo[k]fluoranthene	1.67	1.242		mg/Kg		75	42 - 120	2	45
1-Methylnaphthalene	1.67	1.239		mg/Kg		74	32 - 120	2	50
Pyrene	1.67	1.232		mg/Kg		74	43 - 120	2	50
Phenanthrene	1.67	1.286		mg/Kg		77	45 - 120	2	50
Chrysene	1.67	1.278		mg/Kg		77	43 - 120	1	49
Dibenz(a,h)anthracene	1.67	1.461		mg/Kg		88	32 - 128	2	50
Fluoranthene	1.67	1.269		mg/Kg		76	46 - 120	3	50
Fluorene	1.67	1.332		mg/Kg		80	42 - 120	2	50
Indeno[1,2,3-cd]pyrene	1.67	1.462		mg/Kg		88	41 - 121	2	50
Naphthalene	1.67	1.257		mg/Kg		75	32 - 120	1	50
2-Methylnaphthalene	1.67	1.230		mg/Kg		74	28 - 120	2	50

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	68		29 - 120
Terphenyl-d14 (Surr)	63		13 - 120
Nitrobenzene-d5 (Surr)	70		27 - 120

Lab Sample ID: 490-70903-B-2-C MS

Matrix: Solid

Analysis Batch: 222860

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 222681

Sample Sample MS MS Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Acenaphthylene ND 1.86 12 1.544 mg/Kg 83 25 - 120 ND Anthracene Ħ 1.86 1.570 mg/Kg 28 - 125 84 Benzo[a]anthracene ND n 1.86 1.644 mg/Kg 88 23 - 120 Benzo[a]pyrene ND 1.86 1.564 n 15 - 128 mg/Kg 84 Benzo[b]fluoranthene ND 1.86 1.651 mg/Kg 89 12 - 133 Benzo[g,h,i]perylene u ND 1.86 1.877 mg/Kg 101 22 - 120 Benzo[k]fluoranthene ND 1.86 1.536 mg/Kg 12 83 28 - 120 1-Methylnaphthalene 0.0744 1.86 1.626 mg/Kg 83 10 - 120 Pyrene ND n 1.86 1.520 mg/Kg 82 20 - 123 Phenanthrene ND H 1.86 1,558 mg/Kg 84 21 - 122 Chrysene ND 1.86 1.609 mg/Kg 86 20 - 120 Dibenz(a,h)anthracene ND 1.86 1.829 17 mg/Kg 98 12 - 128 Fluoranthene ND 10 1.86 1.559 mg/Kg 84 10 - 143 Fluorene ND 1.86 1.596 X. mg/Kg 86 20 - 120 Indeno[1,2,3-cd]pyrene ND 1.86 1.792 mg/Kg 96 22 - 121 Naphthalene ND 1.86 1.515 mg/Kg 81 10 - 120 2-Methylnaphthalene 0.110 1.86 1.690 mg/Kg 85 13 - 120

MS	MS

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	64		29 - 120
Terphenyl-d14 (Surr)	67		13 - 120

TestAmerica Nashville

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

TestAmerica Job ID: 490-71072-1

Client Sample ID: Matrix Spike

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

Lab Sample ID: 490-70903-B-2-C MS

Matrix: Solid

Analysis Batch: 222860

MS MS

 Surrogate
 %Recovery
 Qualifier
 Limits

 Nitrobenzene-d5 (Surr)
 71
 27 - 120

Lab Sample ID: 490-70903-B-2-D MSD

Matrix: Solid

Analysis Batch: 222860

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 222681

Prep Batch: 222681

A STATE OF THE PARTY OF THE PAR									riehi	Dalli. Z	22001
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthylene	ND		1.86	1.432		mg/Kg	u	77	25 - 120	8	50
Anthracene	ND		1.86	1.431		mg/Kg	n	77	28 - 125	9	49
Benzo[a]anthracene	ND		1.86	1.463		mg/Kg	33	79	23 - 120	12	50
Benzo[a]pyrene	ND		1.86	1.417		mg/Kg	p	76	15 - 128	10	50
Benzo[b]fluoranthene	ND		1.86	1.523		mg/Kg	n	82	12 - 133	8	50
Benzo[g,h,i]perylene	ND		1.86	1.650		mg/Kg	n	89	22 - 120	13	50
Benzo[k]fluoranthene	ND		1.86	1.354		mg/Kg	п	73	28 - 120	13	45
1-Methylnaphthalene	0.0744		1.86	1.476		mg/Kg	и	75	10 - 120	10	50
Pyrene	ND		1.86	1.356		mg/Kg	ü	73	20 - 123	11	50
Phenanthrene	ND		1.86	1.419		mg/Kg	li.	76	21 - 122	9	50
Chrysene	ND		1.86	1.454		mg/Kg	n	78	20 - 120	10	49
Dibenz(a,h)anthracene	ND		1.86	1.620		mg/Kg	121	87	12 - 128	12	50
Fluoranthene	ND		1.86	1.391		mg/Kg	n	75	10 - 143	11	50
Fluorene	ND		1.86	1.463		mg/Kg	n	79	20 - 120	9	50
Indeno[1,2,3-cd]pyrene	ND		1.86	1.575		mg/Kg	n	85	22 - 121	13	50
Naphthalene	ND		1.86	1.424		mg/Kg	-	77	10 - 120	6	50
2-Methylnaphthalene	0.110		1.86	1.531		mg/Kg	u	76	13 - 120	10	50

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	63		29 - 120
Terphenyl-d14 (Surr)	59		13 - 120
Nitrobenzene-d5 (Surr)	66		27 - 120

Lab Sample ID: MB 490-223441/1-A

Matrix: Solid

Analysis Batch: 223527

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 223441

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0100	mg/Kg		01/28/15 08:04	01/28/15 14:16	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		01/28/15 08:04	01/28/15 14:16	1
Anthracene	ND		0.0670	0.00900	mg/Kg		01/28/15 08:04	01/28/15 14:16	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		01/28/15 08:04	01/28/15 14:16	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		01/28/15 08:04	01/28/15 14:16	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		01/28/15 08:04	01/28/15 14:16	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		01/28/15 08:04	01/28/15 14:16	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		01/28/15 08:04	01/28/15 14:16	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		01/28/15 08:04	01/28/15 14:16	1
Pyrene	ND		0.0670	0.0120	mg/Kg		01/28/15 08:04	01/28/15 14:16	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		01/28/15 08:04	01/28/15 14:16	1
Chrysene	ND		0.0670	0.00900	mg/Kg		01/28/15 08:04	01/28/15 14:16	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		01/28/15 08:04	01/28/15 14:16	1

TestAmerica Nashville

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Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-71072-1

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

Lab Sample ID: MB 490-223441/1-A

Matrix: Solid

Analysis Batch: 223527

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

Prep Batch: 223441

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.0670	0.00900	mg/Kg		01/28/15 08:04	01/28/15 14:16	1
Fluorene	ND		0.0670	0.0120	mg/Kg		01/28/15 08:04	01/28/15 14:16	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		01/28/15 08:04	01/28/15 14:16	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		01/28/15 08:04	01/28/15 14:16	1
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		01/28/15 08:04	01/28/15 14:16	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	73	29 - 120	01/28/15 08:04	01/28/15 14:16	1
Terphenyl-d14 (Surr)	75	13 - 120	01/28/15 08:04	01/28/15 14:16	1
Nitrobenzene-d5 (Surr)	76	27 - 120	01/28/15 08:04	01/28/15 14:16	1

Lab Sample ID: LCS 490-223441/2-A

Matrix: Solid

Analysis Batch: 223527

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

Prep Batch: 223441

And a service of the	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	1.67	1.247		mg/Kg		75	38 - 120
Anthracene	1.67	1.294		mg/Kg		78	46 - 124
Benzo[a]anthracene	1.67	1.302		mg/Kg		78	45 - 120
Benzo[a]pyrene	1.67	1.275		mg/Kg		76	45 - 120
Benzo[b]fluoranthene	1.67	1.294		mg/Kg		78	42 - 120
Benzo[g,h,i]perylene	1.67	1.285		mg/Kg		77	38 - 120
Benzo[k]fluoranthene	1.67	1.193		mg/Kg		72	42 - 120
1-Methylnaphthalene	1.67	1.116		mg/Kg		67	32 - 120
Pyrene	1.67	1.269		mg/Kg		76	43 - 120
Phenanthrene	1.67	1.252		mg/Kg		75	45 - 120
Chrysene	1.67	1.244		mg/Kg		75	43 - 120
Dibenz(a,h)anthracene	1.67	1.353		mg/Kg		81	32 - 128
Fluoranthene	1.67	1.252		mg/Kg		75	46 - 120
Fluorene	1.67	1.261		mg/Kg		76	42 - 120
Indeno[1,2,3-cd]pyrene	1.67	1.287		mg/Kg		77	41 - 121
Naphthalene	1.67	1.116		mg/Kg		67	32 - 120
2-Methylnaphthalene	1.67	1.192		mg/Kg		72	28 - 120

LCS LCS

Surrogate	%Recovery Qualifier	Limits
2-Fluorobiphenyl (Surr)	71	29 - 120
Terphenyl-d14 (Surr)	73	13 - 120
Nitrobenzene-d5 (Surr)	70	27 - 120

Method: Moisture - Percent Moisture

Lab Sample ID: 490-71052-D-4 DU

Matrix: Solid

Analysis Batch: 222558

	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Percent Solids	86		87		%		0.9	20

TestAmerica Nashville

Prep Type: Total/NA

Client Sample ID: Duplicate

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QC Association Summary

Client: Small Business Group Inc.

Project/Site: Laurel Bay Housing Project

r rojectrone. Eaurer Bay	riodsing rioject				
GC/MS VOA					
Prep Batch: 222793					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Drop Batab
490-71072-1	420 Elderberry	Total/NA	Soil	5035	Prep Batch
490-71072-2	410 Elderberry	Total/NA	Soil	5035	
490-71072-3	317 Ash	Total/NA	Soil	5035	
490-71072-4	1213 Cardinal	Total/NA	Soil	5035	
Analysis Batch: 223348	3				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Dron Datab
490-71072-1	420 Elderberry	Total/NA	Soil	8260B	Prep Batch 222793
490-71072-2	410 Elderberry	Total/NA	Soil	8260B	
490-71072-3	317 Ash	Total/NA	Soil	8260B	222793
490-71072-4	1213 Cardinal	Total/NA	Soil	8260B	222793
LCS 490-223348/7	Lab Control Sample	Total/NA	Solid	8260B	222793
MB 490-223348/9	Method Blank	Total/NA	Solid	8260B	
GC/MS Semi VOA					
Prep Batch: 222681					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-70903-B-2-C MS	Matrix Spike	Total/NA	Solid	3550C	
490-70903-B-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	
490-71072-2	410 Elderberry	Total/NA	Soil	3550C	
490-71072-3	317 Ash	Total/NA	Soil	3550C	
LCS 490-222681/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 490-222681/16-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
MB 490-222681/1-A	Method Blank	Total/NA	Solid	3550C	
Analysis Batch: 222860					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-70903-B-2-C MS	Matrix Spike	Total/NA	Solid	8270D	222681
490-70903-B-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8270D	222681
490-71072-2	410 Elderberry	Total/NA	Soil	8270D	222681
490-71072-3	317 Ash	Total/NA	Soil	8270D	222681
LCS 490-222681/2-A	Lab Control Sample	Total/NA	Solid	8270D	222681
LCSD 490-222681/16-A	Lab Control Sample Dup	Total/NA	Solid	8270D	222681
MB 490-222681/1-A	Method Blank	Total/NA	Solid	8270D	222681
Prep Batch: 223441					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-71072-1	420 Elderberry	Total/NA	Soil	3550C	Prep Batch
490-71072-4	1213 Cardinal	Total/NA	Soil	3550C	
LCS 490-223441/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-223441/1-A	Method Blank	Total/NA	Solid	3550C	
Analysis Batch: 223527					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	14446 - 3	4004.00
490-71072-1	420 Elderberry	Total/NA	Matrix Soil	Method 8270D	Prep Batch
490-71072-4	1213 Cardinal	Total/NA	Soil		223441
LCS 490-223441/2-A	Lab Control Sample	Total/NA	Solid	8270D 8270D	223441
MB 490-223441/1-A	Method Blank	Total/NA	Solid		223441
7.2 (2.8/24/4/4/4/4/2)	on Arthred and Mr.	Otalina	SUIIU	8270D	223441

TestAmerica Nashville

TestAmerica Job ID: 490-71072-1

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Lab Chronicle

Client: Small Business Group Inc. Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-71072-1

Client Sample ID: 420 Elderberry

Date Collected: 01/19/15 12:45 Date Received: 01/23/15 08:40

Lab Sample ID: 490-71072-1

Matrix: Soil

Percent Solids: 93.1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.806 g	5.0 mL	222793	01/19/15 12:45	JLP	TAL NSH
Total/NA	Analysis	8260B		1	4.806 g	5.0 mL	223348	01/27/15 21:16	JMG	TAL NSH
Total/NA	Prep	3550C			33.60 g	1.00 mL	223441	01/28/15 08:04	RMS	TAL NSH
Total/NA	Analysis	8270D		1	33.60 g	1.00 mL	223527	01/28/15 16:54	SNR	TAL NSH
Total/NA	Analysis	Moisture		1			222558	01/23/15 15:41	RRS	TAL NSH



Client Sample ID: 410 Elderberry

Date Collected: 01/20/15 13:45 Date Received: 01/23/15 08:40

Client Sample ID: 317 Ash Date Collected: 01/21/15 14:30

Date Received: 01/23/15 08:40

Lab Sample ID: 490-71072-2

Matrix: Soil Percent Solids: 95.2

	Batch	Batch		Dii	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.994 g	5.0 mL	222793	01/20/15 13:45	JLP	TAL NSH
Total/NA	Analysis	8260B		1	4.994 g	5.0 mL	223348	01/27/15 20:45	JMG	TAL NSH
Total/NA	Prep	3550C			30.29 g	1 mL	222681	01/24/15 10:50	LDC	TAL NSH
Total/NA	Analysis	8270D		1	30.29 g	1 mL	222860	01/25/15 19:34	BES	TAL NSH
Total/NA	Analysis	Moisture		1			222558	01/23/15 15:41	RRS	TAL NSH

Lab Sample ID: 490-71072-3

Matrix: Soil

Percent Solids: 81.0

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.881 g	5.0 mL	222793	01/21/15 14:30	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5.881 g	5.0 mL	223348	01/27/15 20:15	JMG	TAL NSH
Total/NA	Prep	3550C			30.27 g	1 mL	222681	01/24/15 10:50	LDC	TAL NSH
Total/NA	Analysis	8270D		1	30.27 g	1 mL	222860	01/25/15 19:56	BES	TAL NSH
Total/NA	Analysis	Moisture		1			222558	01/23/15 15:41	RRS	TAL NSH

Client Sample ID: 1213 Cardinal Lab Sample ID: 490-71072-4

Date Collected: 01/22/15 11:15

Date Received: 01/23/15 08:40

Matrix: Soil

Percent Solids: 89.9

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.016 g	5.0 mL	222793	01/22/15 11:15	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5.016 g	5.0 mL	223348	01/27/15 19:44	JMG	TAL NSH
Total/NA	Prep	3550C			34.14 g	1.00 mL	223441	01/28/15 08:04	RMS	TAL NSH
Total/NA	Analysis	8270D		1	34.14 g	1.00 mL	223527	01/28/15 17:17	SNR	TAL NSH
Total/NA	Analysis	Moisture		1			222558	01/23/15 15:41	RRS	TAL NSH

Laboratory References:

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

TestAmerica Nashville

Page 17 of 22

Method Summary

Client: Small Business Group Inc.

Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-71072-1

Method Method Description

8260B Volatile Organic Compounds (GC/MS)
8270D Semivolatile Organic Compounds (GC/MS)

Moisture Percent Moisture

Protocol

Laboratory

SW846 SW846 TAL NSH TAL NSH

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

10

E



Certification Summary

Client: Small Business Group Inc.

Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-71072-1

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program		EPA Region	Certification ID	Expiration Date
North Carolina (WW/SW)	State Prog	gram	4	387	12-31-15
The following analytes ar	re included in this report, bu	t certification is not of	fered by the governing	authority:	
Analysis Method	Prep Method	Matrix	Anal	yte	
Moisture		Soil	Pero	ent Solids	
South Carolina	State Prog	gram	4	84009 (001)	02-28-15
The falls of the control of the cont	e company of the latter of			W W	

The following analytes are included in this report, but certification is not offered by the governing authority:

Prep Method	Matrix	Analyte
3550C	Soil	1-Methylnaphthalene
	Soil	Percent Solids
		3550C Soil



COOLER RECEIPT FORM



Charleston

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			Temperature Upon Receipt 3.4c	for Comments:					4	3	2	5	RUSH TAT (Pre-Schedul Standard TAT Fax Results	Analyze For:		Bay Housing Project		904		Enforcement Action? Yes NoNo	Compliance Monitoring? Yes No	To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
g d	Time	Time							×××	X	×	XX	Other (specify): BTEX + Napth - 8260 PAH - 8270D	0	Project#:	Project ID: Laurel Bay Housing Project	TA Quote #:	PO#:	Site State: SC			To assis methods regulato
1.95.15	Date	Date		E	1	1			N.	X	×.	×	Drinking Water Sludge Soil	Matrix			10%					
	estAmerica:		Method of Shipment:						202	んしん	رع	2 21	HNO ₃ (Red Label) HGI (Sina Label) H ₂ SO ₄ Plastic (Yellow Label) H ₂ SO ₄ Glass(Yellow Label) None (Black Label) Other (Specify) Groundwater Wastewater	Preservative K	/	(Fax No. (543) 879-040					Phone: 615-726-0177 Toll Free: 800-765-0980 Fax: 615-726-3404
	D	He Received by:							×	×	×	×	Grab Composite Field Filtered			Shano	Fau	eginc.net				ion eighton 7204
		15							1115 3	1430 5	1345 5	1245 5	Time Sampled No, of Containers Shipped	1	We sale	SOFT I		Project Manager: Tom McElwee email: mcelwee@eeginc.net	9456	y 78	2449	Nashville Division 2960 Foster Creighton Nashville, TN 37204
	Date	1/20/						1 7	1/25/15	1/2/1/2	1/20/16	1/M/B	Date Sampled		1	1	843,412,2097	Tom McElwee	City/State/Zip: Ladson, SC 29456	Address: 10179 Highway 78	: SBG - EEG #	L TESTING
	Relifiquished by	M. M. Callestration		Special Instructions:					1213 CARDINA	317 Ash 1	410 Eldreberry	420 Eldrabeney	Sample ID / Description		Sampler Signature:	Sampler Name: (Print)	Telephone Number: 843.412.2097	Project Manager:	City/State/Zip:	Address:	Client Name/Account #: SBG - EEG # 2449	THE LEADER IN ENVIRONMENTAL TESTING

Loc: 490

Login Sample Receipt Checklist

Client: Small Business Group Inc.

Job Number: 490-71072-1

Login Number: 71072 List Source: TestAmerica Nashville

List Number: 1

Creator: McBride, Mike

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	3.6
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	

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ATTACHMENT A



NON-HAZARDOUS MANIFEST

147	1. Generator's l	JS EPA ID No.	Manifest Doo	No.	2. Page 1	of			
NON-HAZARDOUS MANIFEST					1				
3. Generator's Mailing Address:	- 1	Generator's Site Addre	en tre tree	w	A Manife	st Number	1		
MCAS BEAUFORT		Generator's Site Addre	SS (If different than	mailing):			Les actions		
LAUREL BAY HOUSING					W	MNA	01519	9131	
BEAUFORT, SC 29904						B. State	Generator's	ID	
	070.0414								
	879-0411	12 305							
5. Transporter 1 Company Name		6. US I	PA ID Number						
	Les C					ransporter's II			
1 1 1 17 17 1/2 1	- J515-L	- 1.0				orter's Phone	-5.		
7. Transporter 2 Company Name		8. US I	PA ID Number		8		-51		
						ransporter's II	D		
9. Designated Facility Name and Si					F. Transpo	orter's Phone			
	te Address	10. US	EPA ID Number	r					
HICKORY HILL LANDFILL					G. State F	acility ID			
2621 LOW COUNTRY DRIVE					H. State F	acility Phone	843-9	87-464	3
RIDGELAND, SC 29936								-	
				4444			,		
11. Description of Waste Materials			12. C No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. M	lisc. Comme	nts
a. HEATING OIL TANK FILLED	WITH SAND		1,0.	1,100	amiliary				
	200000300000000000000000000000000000000		1	By	5.49	LIN	755	4 3	~
WM Pr	ofile# 102655S	C	/	1/2					
b.	Jilic # 1020555			+ -					
						Yes			
						<i>)</i> #			
WM Profile #					1				
C.									
			1						
WM Profile #									
d.									
WM Profile	#						1		
J. Additional Descriptions for Mat			K Disno	osal Location					-
			in Dispo	Jour Location					
			Cell				Level		
			Grid					-	
15. Special Handling Instructions ar	nd Additional Inform	nation		2) 8	763 D	AhliA			
UST'S from	: 11 :	, a c 1.	1		,			~	,1
	1/1/	13 CARdi	NA			3)	659	- 19871	11:11
Purchase Order #		EMERGENO	Y CONTACT / PH	HONE NO.:				-	
16. GENERATOR'S CERTIFICATE:				10111111011	-				
1 hereby certify that the above-desc	rihed materials are	not hazardous westos	defined by 40 c	CD Day 201	or are a selection	abla -t-t- I	i have to		í
accurately described, classified and	packaged and are in	n proper condition for tra	nsportation acc	ording to an	plicable requ	lations	v, nave beer	i tully and	1
Printed Name	, , , , , , , , , , , , , , , , , , , ,	Signature "On		ording to up	phenoic regu	iations.	Month	Day	Year
1 1	1 -1.			133			-	-3/	1 miles
17. Transporter 1 Acknowledgemen	nt of Receipt of Mat	erials		11			1 1		11 /
Printed Name / 4	-1	Signature	6/11	1			Month	Day	Year
VRAIT _	> MAN)	/	1/100	1			5	9	/ d
18. Transporter 2 Acknowledgemen	nt of Receipt of Mat	erials	1				1	•	1.4.3
Printed Name		Signature	11	-			Month	Day	0.
Constitution of the second		J.g.iacaic	4				IVIOIILII	Day	Year
19. Certificate of Final Treatment/									
I certify, on behalf of the above liste	ed treatment facility	, that to the best of my k	nowledge, the a	above-descri	bed waste w	as managed in	n compliand	e with all	
applicable laws, regulations, permit	s and licenses on th	e dates listed above.				•			
20. Facility Owner or Operator: Ce	rtification of receipt	of non-hazardous mater	ials covered by	this manifes	t.				
Printed Name	171 1	Signature	1	×	V (Month	Day	Year
) - A)	tald		1. Tal.	1	5 h 1/2	-4	3	181	,
White-TREATMENT, STORAGE, DIS	POSAL FACILITY COP	PY Blue- GENERA	TOD HO CODY	The same	الملائم	llow- GENERA		1 000	100

Pink- FACILITY USE ONLY

Gold-TRANSPORTER #1 COPY

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	