SUMMARY REPORT

178 ASH STREET (FORMERLY 317 ASH STREET)

LAUREL BAY MILITARY HOUSING AREA

MARINE CORPS AIR STATION BEAUFORT

BEAUFORT, SC

Revision: 0 Prepared for:

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

and



Naval Facilities Engineering Command Atlantic 9324 Virginia Avenue Norfolk, Virginia 23511-3095 Comprehensive Long-Term Environmental Action Navy SUMMARY REPORT
178 ASH STREET (FORMERLY 317 ASH STREET)
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MARINE CORPS AIR STATION BEAUFORT
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Naval Facilities Engineering Command Atlantic

9324 Virginia Avenue Norfolk, Virginia 23511-3095 Comprehensive Long-Term Environmental Action Navy

Prepared by:



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

Contract Number: N62470-14-D-9016

CTO WE52

JUNF 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 178 Ash Street (Formerly 317 Ash Street). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

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

1.1 Background Information

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





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

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

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

1.2 UST Removal and Assessment Process

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

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

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





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

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

2.0 SAMPLING ACTIVITIES AND RESULTS

The following section presents the sampling activities and associated results for 178 Ash Street (Formerly 317 Ash Street). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 317 Ash Street* (MCAS Beaufort, 2015). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On January 21, 2015, a single 280 gallon heating oil UST was removed from the rear patio area at 178 Ash Street (Formerly 317 Ash Street). 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





5'6" 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 178 Ash Street (Formerly 317 Ash Street) 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 178 Ash Street (Formerly 317 Ash Street). This NFA determination was obtained in a letter dated July 1, 2015. SCDHEC's NFA letter is provided in Appendix C.

4.0 REFERENCES

Marine Corps Air Station Beaufort, 2011. South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 317 Ash Street, Laurel Bay Military Housing Area, March 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 178 Ash Street (Formerly 317 Ash Street) Laurel Bay Military Housing Area

Marine Corps Air Station Beaufort Beaufort, South Carolina

Constituent	SCDHEC RBSLs (1)	Results Sample Collected 01/21/15				
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)						
Benzene	0.003	ND				
Ethylbenzene	1.15	ND				
Naphthalene	0.036	0.00232				
Toluene	0.627	ND				
Xylenes, Total	13.01	ND				
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (mg/kg)						
Benzo(a)anthracene	0.66	0.0632				
Benzo(b)fluoranthene	0.66	0.0446				
Benzo(k)fluoranthene	0.66	ND				
Chrysene	0.66	0.0623				
Dibenz(a,h)anthracene	0.66	ND				

Notes:

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

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

mg/kg - milligram per kilogram

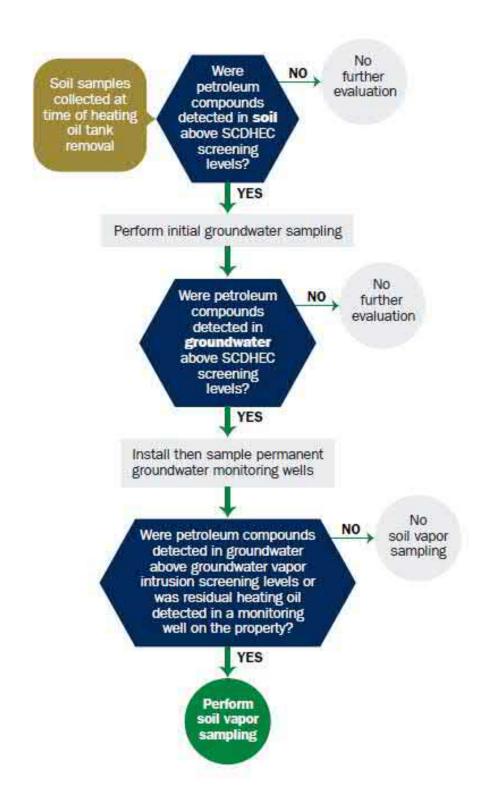
ND - not detected at the reporting limit (or method detection limit if shown on the laboratory report). The laboratory report is provided in Appendix B.

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

Appendix A Multi-Media Selection Process for LBMH





Appendix A - Multi-Media Selection Process for LBMH

Appendix B UST Assessment Report



South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank (UST) Assessment Report



SC DHEC - Bureau of Land & Waste Management Submit Completed Form To: UST Program SCDHEC 2600 Bull Street Columbia, South Carolina 29201 Telephone (803) 896-7957

I. OWNERSHIP OF UST (S)

	ommanding Officer Attn: N. n, Individual, Public Agency, Other)	REAU (Craig Ende)
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 S	Station,	Beaufort	, SC
Facility Name or Company Site	Identifier						
317 Ash Street, Lau Street Address or State Road (a		ry Housi	ng Are	ea			_
Beaufort,	Beaufort						
City	County						

Attachment 2

III. INSURANCE INFORMATION

Insurance Statement
The petroleum release reported to DHEC on at Permit ID Number may qualify to receive state monies to pay for appropriate site rehabilitation activities. Before participation is allowed in the State Clean-up fund, written confirmation of the existence or non-existence of an environmental insurance policy is required. This section must be completed.
Is there now, or has there ever been an insurance policy or other financial mechanism that covers this UST release? YES NO (check one)
If you answered YES to the above question, please complete the following information:
My policy provider is: The policy deductible is: The policy limit is:
If you have this type of insurance, please include a copy of the policy with this report.
IV. REQUEST FOR SUPERB FUNDING I DO / DO NOT wish to participate in the SUPERB Program. (Circle one.)
V. CERTIFICATION (To be signed by the UST owner)
I certify that I have personally examined and am familiar with the information submitted in this and all attached documents; and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.
Name (Type or print.)
Signature
To be completed by Notary Public:
Sworn before me this day of, 20
(Name)

VI.		
	UST INFORMATION	317Ash
Prod	uct(ex. Gas, Kerosene)	Heating oil
Capa	acity(ex. 1k, 2k)	280 gal
Age.		Late 1950s
Cons	struction Material(ex. Steel, FRP)	Steel
Mon	th/Year of Last Use	Mid 1980s
Dept	th (ft.) To Base of Tank	5'6"
-	Prevention Equipment Y/N	No
Over	fill Prevention Equipment Y/N	No
Meth	nod of Closure Removed/Filled	Removed
Date	Tanks Removed/Filled	1/21/2015
Visit	ole Corrosion or Pitting Y/N	Yes
Visit	ole Holes Y/N	Yes
	nod of disposal for any USTs removed from the T 317Ash was removed from the gr	• • •
Su	btitle "D" landfill. See Attachm	nent "A".

VII. PIPING INFORMATION

l ven
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IX. SITE CONDITIONS

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

X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 84009

B.

	T 4:	C1- T-	0.17	D 41*	D 4 /T' C	C 11 . 1	OV/ A //
Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA#
317Ash	Excav at fill end	Soil	Sandy	5'6"	1/21/15 1430 hrs	P. Shaw	
8							
9							
10							
11	_						
12							:
13							
14							
15							
16							
17							
18							
19							
20							

^{* =} Depth Below the Surrounding Land Surface

XI. SAMPLING METHODOLOGY

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

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

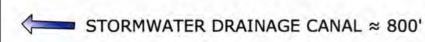
XII. RECEPTORS

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

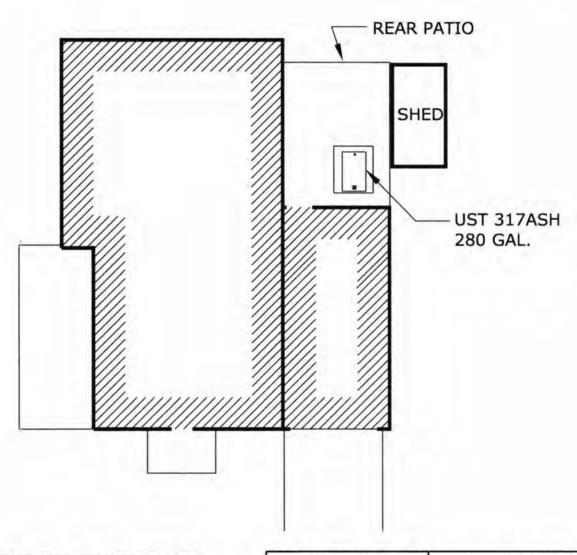
XIII. SITE MAP

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

(Attach Site Map Here)







 TANK DEPTH BELOW GRADE

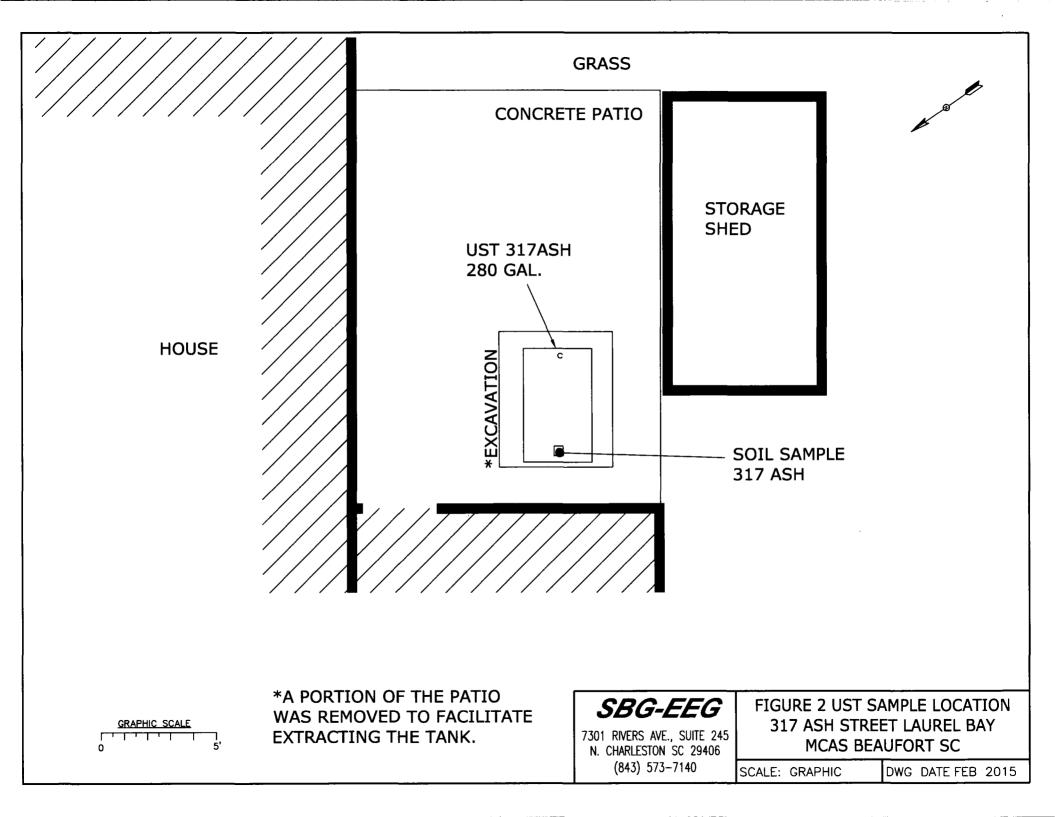
317ASH = 30"

SBG-EEG

7301 RIVERS AVE., SUITE 245 N. CHARLESTON SC 29406 (843) 573-7140 FIGURE 1 SITE MAP 317 ASH STREET, LAUREL BAY MCAS BEAUFORT SC

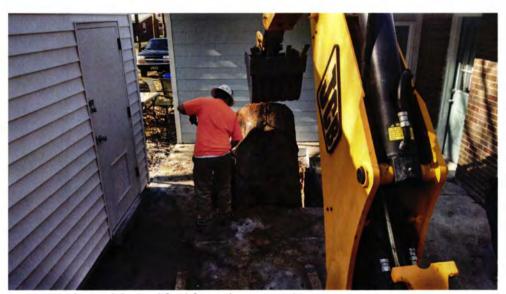
SCALE: GRAPHIC

DWG DATE FEB 2015





Picture 1: Location of UST 317Ash.



Picture 2: The tank being lifted from the excavation.



Picture 3: UST 317Ash's excavation.



Picture 4: Site at 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	317Ash		
CoC UST	31/ABII		
Benzene	ND		
Toluene	ND	 	
Ethylbenzene	ND		
Xylenes	ND		
Naphthalene	0.00232 mg/kg		
Benzo (a) anthracene	0.0632 mg/kg		
Benzo (b) fluoranthene	0.0446 mg/kg		
Benzo (k) fluoranthene	ND		
Chrysene	0.0623 mg/kg		
Dibenz (a, h) anthracene	ND		
TPH (EPA 3550)			
СоС			
Benzene			
Toluene		 	
Ethylbenzene		 	
Xylenes			
Naphthalene			
Benzo (a) anthracene			
Benzo (b) fluoranthene			
Benzo (k) fluoranthene			
Chrysene			
Dibenz (a, h) anthracene			
TPH (EPA 3550)			

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

СоС	CoC RBSL						
		W-1	W-2	W -3	W -4		
	(µg/l)						
Free Product	None						
Thickness	None						
Benzene	5						
Toluene	1,000						
Ethylbenzene	700						
Xylenes	10,000		i				
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)



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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

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

Attn: Tom McElwee

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

Kuth Hay

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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eceint Checklists	



















Sample Summary

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

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Case Narrative

Client: Small Business Group Inc.

Project/Site: Laurel Bay Housing Project

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.

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

TestAmerica Job ID: 490-71072-1





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.

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

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

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

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

DER Duplicate error ratio (normalized absolute difference)

Dil Fac Dilution Factor

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

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

Minimum detectable concentration MDC

MDL Method Detection Limit Minimum Level (Dioxin) ML

Not Calculated NC

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

PQL Practical Quantitation Limit

Quality Control QC Relative error ratio RER

Reporting Limit or Requested Limit (Radiochemistry)

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

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





















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

Percent Solids

Lab Sample ID: 490-71072-1

Matrix: Soil

Percent Solids: 93.1

Date Received: 01/23/15 08:40								Percent Soil	as: 93.1
Method: 8260B - Volatile Orga	nic Compounds	(GC/MS)							
Analyte	and the same of th	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00223	0.000748	mg/Kg	52	01/19/15 12:45	01/27/15 21:16	1
Ethylbenzene	ND		0.00223	0.000748	mg/Kg	12	01/19/15 12:45	01/27/15 21:16	1
Naphthalene	ND		0.00558	0.00190	mg/Kg	C3	01/19/15 12:45	01/27/15 21:16	1
Toluene	ND		0.00223	0.000827	mg/Kg	ы	01/19/15 12:45	01/27/15 21:16	1
Xylenes, Total	ND		0.00335	0.000748	mg/Kg	13	01/19/15 12:45	01/27/15 21:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		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
Dibromofluoromethane (Surr)	91		70 - 130				01/19/15 12:45	01/27/15 21:16	1
Toluene-d8 (Surr)	103		70 - 130				01/19/15 12:45	01/27/15 21:16	1
Method: 8270D - Semivolatile	Organic Compou	inds (GC/MS	5)						
Analyte	The second secon	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0642	0.00959	mg/Kg	63	01/28/15 08:04	01/28/15 16:54	1
Acenaphthylene	ND		0.0642	0.00863	mg/Kg	13	01/28/15 08:04	01/28/15 16:54	1
Anthracene	ND		0.0642	0.00863	mg/Kg	54	01/28/15 08:04	01/28/15 16:54	1
Benzo[a]anthracene	ND		0.0642	0.0144	mg/Kg	13	01/28/15 08:04	01/28/15 16:54	1
Benzo[a]pyrene	ND		0.0642	0.0115	mg/Kg	B	01/28/15 08:04	01/28/15 16:54	1
Benzo[b]fluoranthene	ND		0.0642	0.0115	mg/Kg	ET.	01/28/15 08:04	01/28/15 16:54	1
Benzo[g,h,i]perylene	ND		0.0642	0.00863	mg/Kg	11	01/28/15 08:04	01/28/15 16:54	1
Benzo[k]fluoranthene	ND		0.0642	0.0134	mg/Kg	11	01/28/15 08:04	01/28/15 16:54	1
1-Methylnaphthalene	ND		0.0642	0.0134	mg/Kg	ET	01/28/15 08:04	01/28/15 16:54	1
Pyrene	ND		0.0642	0.0115	mg/Kg	17	01/28/15 08:04	01/28/15 16:54	1
Phenanthrene	ND		0.0642	0.00863	mg/Kg	177	01/28/15 08:04	01/28/15 16:54	1
Chrysene	ND		0.0642	0.00863	mg/Kg	6,3	01/28/15 08:04	01/28/15 16:54	1
Dibenz(a,h)anthracene	ND		0.0642	0.00671	mg/Kg	63	01/28/15 08:04	01/28/15 16:54	1
Fluoranthene	ND		0.0642	0.00863	mg/Kg	13	01/28/15 08:04	01/28/15 16:54	1
Fluorene	ND		0.0642	0.0115	mg/Kg	E	01/28/15 08:04	01/28/15 16:54	1
Indeno[1,2,3-cd]pyrene	ND		0.0642	0.00959	mg/Kg	13	01/28/15 08:04	01/28/15 16:54	1
Naphthalene	ND		0.0642	0.00863	mg/Kg	17	01/28/15 08:04	01/28/15 16:54	1
2-Methylnaphthalene	ND		0.0642	0.0153	mg/Kg	п	01/28/15 08:04	01/28/15 16:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	68		29 - 120				01/28/15 08:04	01/28/15 16:54	1
Terphenyl-d14 (Surr)	67		13 - 120				01/28/15 08:04	01/28/15 16:54	1
Nitrobenzene-d5 (Surr)	71		27 - 120				01/28/15 08:04	01/28/15 16:54	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
					14.1				

01/23/15 15:41

0.10

0.10 %

93

Client Sample Results

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

Н

Client Sample ID: 410 Elderberry

Date Collected: 01/20/15 13:45 Date Received: 01/23/15 08:40 Lab Sample ID: 490-71072-2

Matrix: Soil

Percent Solids: 95.2

:	
	100
1	6

Method: 8260B - Volatile	Organic Compounds	(GC/MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00210	0.000705	mg/Kg	0	01/20/15 13:45	01/27/15 20:45	1
Ethylbenzene	ND		0.00210	0.000705	mg/Kg	0	01/20/15 13:45	01/27/15 20:45	1
Naphthalene	ND		0.00526	0.00179	mg/Kg	0	01/20/15 13:45	01/27/15 20:45	1
Toluene	ND		0.00210	0.000778	mg/Kg	D	01/20/15 13:45	01/27/15 20:45	1
Xylenes, Total	ND		0.00316	0.000705	mg/Kg	Ø	01/20/15 13:45	01/27/15 20:45	1
2			11.40					1	545

Surrogate	%Recovery Qu	ualifier 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

Toluene-d8 (Surr) 102	2	70 - 130				01/20/15 13:45	01/27/15 20:45	1
Method: 8270D - Semivolatile Organic Compo	unds (GC/MS	S)						
Analyte Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1	0.0697	0.0104	mg/Kg	O	01/24/15 10:50	01/25/15 19:34	1
Acenaphthylene	1	0.0697	0.00936	mg/Kg	0	01/24/15 10:50	01/25/15 19:34	1
Anthracene	ĺ	0.0697	0.00936	mg/Kg	Œ	01/24/15 10:50	01/25/15 19:34	1
Benzo[a]anthracene ND	10	0.0697	0.0156	mg/Kg	LT	01/24/15 10:50	01/25/15 19:34	1
Benzo[a]pyrene ND	1	0.0697	0.0125	mg/Kg	120	01/24/15 10:50	01/25/15 19:34	1
Benzo[b]fluoranthene ND	1	0.0697	0.0125	mg/Kg	D.	01/24/15 10:50	01/25/15 19:34	1
Benzo[g,h,i]perylene ND)	0.0697	0.00936	mg/Kg	-03	01/24/15 10:50	01/25/15 19:34	1
Benzo[k]fluoranthene ND)	0.0697	0.0146	mg/Kg	0	01/24/15 10:50	01/25/15 19:34	1
1-Methylnaphthalene ND		0.0697	0.0146	mg/Kg	D.	01/24/15 10:50	01/25/15 19:34	1
Pyrene NE		0.0697	0.0125	mg/Kg	D	01/24/15 10:50	01/25/15 19:34	1
Phenanthrene ND		0.0697	0.00936	mg/Kg	D	01/24/15 10:50	01/25/15 19:34	1
Chrysene NE		0.0697	0.00936	mg/Kg	ta	01/24/15 10:50	01/25/15 19:34	1
Dibenz(a,h)anthracene ND		0.0697	0.00728	mg/Kg	0	01/24/15 10:50	01/25/15 19:34	1
Fluoranthene NE	1	0.0697	0.00936	mg/Kg	D	01/24/15 10:50	01/25/15 19:34	1
Fluorene)	0.0697	0.0125	mg/Kg	0.	01/24/15 10:50	01/25/15 19:34	1
Indeno[1,2,3-cd]pyrene NE		0.0697	0.0104	mg/Kg	0	01/24/15 10:50	01/25/15 19:34	1
Naphthalene NE		0.0697	0.00936	mg/Kg		01/24/15 10:50	01/25/15 19:34	1
2-Methylnaphthalene NE)	0.0697	0.0166	mg/Kg	11	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	3	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

56		13 - 120				01/24/15 10:50	01/25/15 19:34	1
54		27 - 120				01/24/15 10:50	01/25/15 19:34	1
			D.					Dil F
Result Q	Qualifier	KL	KL	Unit	D	Prepared	Analyzed	Dil Fac
95		0.10	0.10	%			01/23/15 15:41	1
	54 Result C	54 Result Qualifier	54 27 - 120 Result Qualifier RL	54 27 _ 120 Result Qualifier RL RL	54 27 - 120 Result Qualifier RL RL Unit	54 27 - 120 Result Qualifier RL RL Unit D	54 27 - 120 01/24/15 10:50 Result Qualifier RL RL Unit D Prepared	54 27 - 120 01/24/15 10:50 01/25/15 19:34 Result Qualifier RL RL Unit D Prepared Analyzed

Client Sample Results

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

Lab Sample ID: 490-71072-3

Matrix: Soil

Percent Solids: 81.0

Client Sample ID: 317 Ash
Date Collected: 01/21/15 14:30
Date Received: 01/23/15 08:40

Percent Solids

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00210	0.000703	mg/Kg	σ	01/21/15 14:30	01/27/15 20:15	1
Ethylbenzene	ND		0.00210	0.000703	mg/Kg	C.	01/21/15 14:30	01/27/15 20:15	1
Naphthalene	0.00232	J	0.00524	0.00178	mg/Kg	DE	01/21/15 14:30	01/27/15 20:15	1
Toluene	ND		0.00210	0.000776	mg/Kg	ir.	01/21/15 14:30	01/27/15 20:15	1
Xylenes, Total	ND		0.00315	0.000703	mg/Kg	12	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	5)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0548	J	0.0819	0.0122	mg/Kg	ET	01/24/15 10:50	01/25/15 19:56	1
Acenaphthylene	ND		0.0819	0.0110	mg/Kg	TI.	01/24/15 10:50	01/25/15 19:56	1
Anthracene	ND		0.0819	0.0110	mg/Kg	13	01/24/15 10:50	01/25/15 19:56	1
Benzo[a]anthracene	0.0632	J	0.0819	0.0183	mg/Kg	23	01/24/15 10:50	01/25/15 19:56	1
Benzo[a]pyrene	ND		0.0819	0.0147	mg/Kg	23	01/24/15 10:50	01/25/15 19:56	1
Benzo[b]fluoranthene	0.0446	J	0.0819	0.0147	mg/Kg	п	01/24/15 10:50	01/25/15 19:56	1
Benzo[g,h,i]perylene	ND		0.0819	0.0110	mg/Kg	п	01/24/15 10:50	01/25/15 19:56	1
Benzo[k]fluoranthene	ND		0.0819	0.0171	mg/Kg	D	01/24/15 10:50	01/25/15 19:56	1
1-Methylnaphthalene	0.347		0.0819	0.0171	mg/Kg	\$10	01/24/15 10:50	01/25/15 19:56	1
Pyrene	0.132		0.0819	0.0147	mg/Kg	C)	01/24/15 10:50	01/25/15 19:56	1
Phenanthrene	0.246		0.0819	0.0110	mg/Kg	II.	01/24/15 10:50	01/25/15 19:56	1
Chrysene	0.0623	J	0.0819	0.0110	mg/Kg	D.	01/24/15 10:50	01/25/15 19:56	1
Dibenz(a,h)anthracene	ND		0.0819	0.00856	mg/Kg	2.2	01/24/15 10:50	01/25/15 19:56	1
Fluoranthene	0.160		0.0819	0.0110	mg/Kg	25	01/24/15 10:50	01/25/15 19:56	1
Fluorene	0.0964		0.0819	0.0147	mg/Kg	B	01/24/15 10:50	01/25/15 19:56	1
Indeno[1,2,3-cd]pyrene	ND		0.0819	0.0122	mg/Kg	B	01/24/15 10:50	01/25/15 19:56	1
Naphthalene	ND		0.0819	0.0110	mg/Kg	15	01/24/15 10:50	01/25/15 19:56	1
2-Methylnaphthalene	0.538		0.0819	0.0196	mg/Kg	8	01/24/15 10:50	01/25/15 19:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	75		29 - 120				01/24/15 10:50	01/25/15 19:56	1
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									10.50
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
			0.40	0.40	D/			DAIDDIAE AE. 44	

01/23/15 15:41

0.10

81

0.10 %

Client Sample Results

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

Lab Sample ID: 490-71072-4

Matrix: Soil

Percent Solids: 89.9

Client	Sample	ID: 1213	Cardinal
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Date Collected: 01/22/15 11:15 Date Received: 01/23/15 08:40

Percent Solids

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00222	0.000743	mg/Kg	Œ	01/22/15 11:15	01/27/15 19:44	1
Ethylbenzene	ND		0.00222	0.000743	mg/Kg	a	01/22/15 11:15	01/27/15 19:44	1
Naphthalene	ND		0.00554	0.00188	mg/Kg	O.	01/22/15 11:15	01/27/15 19:44	1
Toluene	ND		0.00222	0.000820	mg/Kg	O.	01/22/15 11:15	01/27/15 19:44	1
Xylenes, Total	ND		0.00333	0.000743	mg/Kg	II.	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	5)						
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0655	0.00977	mg/Kg	n	01/28/15 08:04	01/28/15 17:17	1
Acenaphthylene	0.110		0.0655	0.00880	mg/Kg	n	01/28/15 08:04	01/28/15 17:17	1
Anthracene	ND		0.0655	0.00880	mg/Kg	n	01/28/15 08:04	01/28/15 17:17	1
Benzo[a]anthracene	0.0191	J	0.0655	0.0147	mg/Kg	10	01/28/15 08:04	01/28/15 17:17	1
Benzo[a]pyrene	0.0176	J	0.0655	0.0117	mg/Kg	(0)	01/28/15 08:04	01/28/15 17:17	1
Benzo[b]fluoranthene	0.109		0.0655	0.0117	mg/Kg	23	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	Ø	01/28/15 08:04	01/28/15 17:17	1
1-Methylnaphthalene	ND		0.0655	0.0137	mg/Kg	a	01/28/15 08:04	01/28/15 17:17	1
Pyrene	ND		0.0655	0.0117	mg/Kg	Ø	01/28/15 08:04	01/28/15 17:17	1
Phenanthrene	0.0502	J	0.0655	0.00880	mg/Kg	D	01/28/15 08:04	01/28/15 17:17	1
Chrysene	0.0675		0.0655	0.00880	mg/Kg	U	01/28/15 08:04	01/28/15 17:17	1
Dibenz(a,h)anthracene	ND		0.0655	0.00684	mg/Kg	22	01/28/15 08:04	01/28/15 17:17	1
Fluoranthene	ND		0.0655	0.00880	mg/Kg	D	01/28/15 08:04	01/28/15 17:17	1
Fluorene	ND		0.0655	0.0117	mg/Kg	0	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	0	01/28/15 08:04	01/28/15 17:17	1
Naphthalene	ND		0.0655	0.00880	mg/Kg	12	01/28/15 08:04	01/28/15 17:17	1
2-Methylnaphthalene	ND		0.0655	0.0156	mg/Kg	0	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

01/23/15 15:41

0.10

90

0.10 %

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

	INID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000670	mg/Kg			01/27/15 19:14	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			01/27/15 19:14	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			01/27/15 19:14	1
Toluene	ND		0.00200	0.000740	mg/Kg			01/27/15 19:14	1
Xylenes, Total	ND		0.00300	0.000670	mg/Kg			01/27/15 19:14	1

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 85 70 - 130 01/27/15 19:14 4-Bromofluorobenzene (Surr) 122 70 - 130 01/27/15 19:14 Dibromofluoromethane (Surr) 70 - 130 91 01/27/15 19:14 Toluene-d8 (Surr) 105 70 - 130 01/27/15 19:14

Lab Sample ID: LCS 490-223348/7

Matrix: Solid

Analysis Batch: 223348

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	0.04471		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	0.100	0.09620		mg/Kg		96	80 - 137

LCS LCS Limits Surrogate %Recovery Qualifier 1,2-Dichloroethane-d4 (Surr) 70 - 130 98 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 Client Sample ID: Method Blank Matrix: Solid Prep Type: Total/NA

Analysis Batch: 222860 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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2/6/2015

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

	WB	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	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	mg/Kg		01/24/15 10:50	01/25/15 17:19	1

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 Batch: 222860							Prep Ba	å
(charles and and control	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

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
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

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

Amaryolo Datolii 222000	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
AND THE PROPERTY OF THE PROPER									

LCSD LCSD

64

67

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 Ratch: 222860

2-Fluorobiphenyl (Surr)

Terphenyl-d14 (Surr)

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 222681

Analysis Batch: 222860	Samala	Sample	Spike	MS	MS				%Rec.
Analyte		Qualifier	Added	Result		Unit	D	%Rec	Limits
Acenaphthylene	ND	Quantie	1.86	1.544	- Audinition	mg/Kg	B	83	25 - 120
Anthracene	ND		1.86	1.570		mg/Kg	ū	84	28 - 125
Benzo[a]anthracene	ND		1.86	1.644		mg/Kg	- 0	88	23 - 120
Benzo[a]pyrene	ND		1.86	1.564		mg/Kg		84	15 - 128
Benzo[b]fluoranthene	ND		1.86	1.651		mg/Kg	.03	89	12 - 133
Benzo[g,h,i]perylene	ND		1.86	1.877		mg/Kg	.01	101	22 - 120
Benzo[k]fluoranthene	ND		1.86	1.536		mg/Kg	n	83	28 - 120
1-Methylnaphthalene	0.0744		1.86	1.626		mg/Kg	n	83	10 - 120
Pyrene	ND		1.86	1.520		mg/Kg	0.	82	20 - 123
Phenanthrene	ND		1.86	1.558		mg/Kg	12	84	21 - 122
Chrysene	ND		1.86	1.609		mg/Kg	(0)	86	20 - 120
Dibenz(a,h)anthracene	ND		1.86	1.829		mg/Kg	0	98	12 - 128
Fluoranthene	ND		1.86	1.559		mg/Kg	- 13	84	10 - 143
Fluorene	ND		1.86	1.596		mg/Kg	(0)	86	20 - 120
Indeno[1,2,3-cd]pyrene	ND		1.86	1.792		mg/Kg	П.	96	22 - 121
Naphthalene	ND		1.86	1.515		mg/Kg	0	81	10 - 120
2-Methylnaphthalene	0.110		1.86	1.690		mg/Kg		85	13 - 120
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						

29 - 120

13 - 120

TestAmerica Nashville

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: 490-70903-B-2-C MS

Matrix: Solid

Matrix: Solid

Analysis Batch: 222860

Analysis Batch: 222860

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 222681

MS MS

Surrogate %Recovery Qualifier Limits 71 27 - 120 Nitrobenzene-d5 (Surr)

Lab Sample ID: 490-70903-B-2-D MSD Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 222681

	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	-13	77	25 - 120	8	50
Anthracene	ND		1.86	1.431		mg/Kg	721	77	28 - 125	9	49
Benzo[a]anthracene	ND		1.86	1.463		mg/Kg	O	79	23 - 120	12	50
Benzo[a]pyrene	ND		1.86	1.417		mg/Kg	0	76	15 - 128	10	50
Benzo[b]fluoranthene	ND		1.86	1.523		mg/Kg	Ω	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	U	73	28 - 120	13	45
1-Methylnaphthalene	0.0744		1.86	1.476		mg/Kg	u	75	10 - 120	10	50
Pyrene	ND		1.86	1.356		mg/Kg	O	73	20 - 123	11	50
Phenanthrene	ND		1.86	1.419		mg/Kg		76	21 - 122	9	50
Chrysene	ND		1.86	1.454		mg/Kg	0	78	20 - 120	10	49
Dibenz(a,h)anthracene	ND		1.86	1.620		mg/Kg	- 0	87	12 - 128	12	50
Fluoranthene	ND		1.86	1.391		mg/Kg	D	75	10 - 143	11	50
Fluorene	ND		1.86	1.463		mg/Kg	п	79	20 - 120	9	50
Indeno[1,2,3-cd]pyrene	ND		1.86	1.575		mg/Kg	(0)	85	22 - 121	13	50
Naphthalene	ND		1.86	1.424		mg/Kg	- 13	77	10 - 120	6	50
2-Methylnaphthalene	0.110		1.86	1.531		mg/Kg	10	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

Client Sample ID: Method Blank Lab Sample ID: MB 490-223441/1-A Prep Type: Total/NA Matrix: Solid

Analysis Batch: 223527

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

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

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

Matrix: Solid

Matrix: Solid

Analysis Batch: 223527

Client	Sample	ID: Met	hod	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

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 223441

Analysis Batch: 223527

Same and Same and Same	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

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TestAmerica Nashville

Client Sample ID: Duplicate

Prep Type: Total/NA

	QC As	sociation Summar	v		
Client: Small Business G Project/Site: Laurel Bay	Group Inc.			TestAmerica Job	ID: 490-71072-1
GC/MS VOA					
Prep Batch: 222793					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-71072-1	420 Elderberry	Total/NA	Soil	5035	
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					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-71072-1	420 Elderberry	Total/NA	Soil	8260B	222793
490-71072-2	410 Elderberry	Total/NA	Soil	8260B	222793
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	
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	Frep Batch
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	
490-71072-4	1213 Cardinal	Total/NA	Soil	3550C	
LCS 490-223441/2-A	Lab Control Sample	Total/NA	Solid	3550C	

TestAmerica Nashville

Prep Batch

223441

223441

223441

223441

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Total/NA

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Solid

Matrix

Soil

Soil

Solid

Solid

3550C

Method

8270D

8270D

8270D

8270D

MB 490-223441/1-A

Lab Sample ID

490-71072-1

490-71072-4

LCS 490-223441/2-A

MB 490-223441/1-A

Analysis Batch: 223527

Method Blank

Client Sample ID

Lab Control Sample

420 Elderberry

1213 Cardinal

Method Blank

2/6/2015

QC Association Summary

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

d

General Chemistry

Analysis Batch: 222558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
490-71052-D-4 DU	Duplicate	Total/NA	Solid	Moisture	
490-71052-D-4 MS	Matrix Spike	Total/NA	Solid	Moisture	
490-71052-D-4 MSD	Matrix Spike Duplicate	Total/NA	Solid	Moisture	
490-71072-1	420 Elderberry	Total/NA	Soil	Moisture	
490-71072-2	410 Elderberry	Total/NA	Soil	Moisture	
490-71072-3	317 Ash	Total/NA	Soil	Moisture	
490-71072-4	1213 Cardinal	Total/NA	Soil	Moisture	

















Lab Chronicle

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

Client Sample ID: 420 Elderberry

Client Sample ID: 410 Elderberry

Date Collected: 01/20/15 13:45

Date Received: 01/23/15 08:40

Date Collected: 01/19/15 12:45

Date Received: 01/23/15 08:40

TestAmerica Job ID: 490-71072-1

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	TAI NSH

Lab Sample ID: 490-71072-2

Matrix: Soil

Percent Solids: 95.2

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

Matrix: Soil

Percent Solids: 81.0

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

Client Sample ID: 1213 Cardinal

Date Collected: 01/22/15 11:15

Date Received: 01/23/15 08:40

Date Received: 01/23/15 08:40

Lab Sample ID: 490-71072-4

Matrix: Soil

Percent Solids: 89.9

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	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

Method Summary

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

H















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

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	ıram	4	387	12-31-15
The following analytes are	e included in this report, bu	t certification is not off	ered by the governing a	authority:	
Analysis Method	Prep Method	Matrix	Analyt	e	
Moisture		Soil	Perce	nt Solids	
South Carolina	State Prog	ıram	4	84009 (001)	02-28-15
The following analytes are	e included in this report, bu	t certification is not off	ered by the governing a	authority:	
Analysis Method	Prep Method	Matrix	Analyt	e	
8270D	3550C	Soil	1-Met	nylnaphthalene	
Moisture		Soil	Perce	nt Solids	



COOLER RECEIPT FORM



Charleston

Ш	Ш	Ш	

1 Teaching # 37/5 (last 4 digital EndEx)	72 Chain of Custody
1. Hacking # (last 4 digits, Fedex)	
Courier: FedEx IR Gun ID 12080142	
2. Temperature of rep. sample or temp blank when opened: 3.6 Degrees Celsius	
 If Item #2 temperature is 0°C or less, was the representative sample or temp blank froz 	
4. Were custody seals on outside of cooler? If yes, how many and where: ONE front & Back	YESNONA
If yes, how many and where: ONE TOOK & DACK	
5. Were the seals intact, signed, and dated correctly?	(YES NONA
6. Were custody papers inside cooler?	(YES.).NONA
I certify that I opened the cooler and answered questions 1-6 (intial)	
7. Were custody seals on containers: YES 🊳 and Intact	YESNO.
Were these signed and dated correctly?	YESNO.
8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Pe	aper Other None
9. Cooling process: Ce lce-pack lce (direct contact) Dry	ice Other None
10. Did all containers arrive in good condition (unbroken)?	XESNONA
11. Were all container labels complete (#, date, signed, pres., etc)?	ESNONA
12. Did all container labels and tags agree with custody papers?	ES)NONA
13a. Were VOA vials received?	ES).NONA
b. Was there any observable headspace present in any VOA vial?	YESNO.
14. Was there a Trip Blank in this cooler? YES(O).NA If multiple coolers, sequ	ience #
The Made and the Distance and Section 1997	
	mom
I certify that I unloaded the cooler and answered questions 7-14 (intial)	77.77.70 No. 32
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 lev b. Did the bottle labels indicate that the correct preservatives were used	77.77.70 No. 32
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 lev	el? YESNO.
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 lev b. Did the bottle labels indicate that the correct preservatives were used	el? YESNONA YESNO
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 lev b. Did the bottle labels indicate that the correct preservatives were used 16. Was residual chlorine present? I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial)	el? YESNONA YESNO
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 lev b. Did the bottle labels indicate that the correct preservatives were used 16. Was residual chlorine present? I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intigent). 17. Were custody papers properly filled out (ink, signed, etc)?	el? YESNONA YESNONA
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 lev b. Did the bottle labels indicate that the correct preservatives were used 16. Was residual chlorine present?	PESNONA YESNONA YESNONA (TESNONA
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 lev b. Did the bottle labels indicate that the correct preservatives were used 16. Was residual chlorine present? I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) 17. Were custody papers properly filled out (ink, signed, etc)? 18. Did you sign the custody papers in the appropriate place?	PESNONA YESNONA YESNONA (ESNONA
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 lev b. Did the bottle labels indicate that the correct preservatives were used 16. Was residual chlorine present? I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) 17. Were custody papers properly filled out (ink, signed, etc)? 18. Did you sign the custody papers in the appropriate place? 19. Were correct containers used for the analysis requested?	PESNONA YESNONA YESNONA (ESNONA (ESNONA

				0810	1.25.15					
				Time	Date	TestAmerica:	Time Received by	Date	,	Relifiquished by
						1	O	1/2/	1/2	Alle
				Time	Date	,	Time Received by	Date	/	Relinquished by:
z	4		Laboratory Comments: Temperature Upon Receipt: 3.4 VOCs Free of Headspace?		FEDE	Method of Shipment:			'	Special Instructions:
7				7						
						1				
-	1	1						-		
-	-	-		-						
	-									1
	4	1		×	R	21	5 X	15 115 5	\$c// 144 1/25	1213 CAREST
	3	-		X	ス	\lambda	SX	1 1430 G	1/2/1	317 Ash
F	1			×	X	2	X	16 1345 5	checky Magi	110 Eld
	-1		-	XX	×		>		rebeney 1/A	420 5/00
+	RI			В	Dr Sk	Na H ₂ H ₂ No Ot	G G Fi	1	0	Sample ID / Description
andard TAT	JSH TAT (Pre-Schedul			ther (specify): TEX + Napth - 8260 AH - 8270D		NO ₃ (Red Label) SH(Blue Label) ADH (Orange Label) SO ₄ Plastic (Yellow Label) SO ₅ Glass(Yellow Label) One (Black Label) Ther (Specify)	omposite	ime Sampled	ate Sampled	
	0		Analyze For:	6	Matrix	Preservative		-		
				Project #:		./		la Court	Sampler Signature:	Sa
			Project ID: Laurel Bay Housing Project	Project ID: La		(Share	mon	Sampler Name: (Print)	Sam
				TA Quote #:	1076	Fax No. (843) 879-040	Fa	097	Telephone Number: 843.412.2097	Tel
			1406	PO#:		5	@eeginc.net	wee email: moelwee	Project Manager: Tom McElwee email: moelwee@eeginc.net	
				Site State: SC				C 29456	City/State/Zip: Ladson, SC 29456	
	No	Yes	Enforcement Action?					hway 78	Address: 10179 Highway 78	
-	No	Yes	Compliance Monitoring?					G#2449	Client Name/Account #: SBG - EEG # 2449	Client
			methods, is this work being conducted for regulatory purposes?	neg ma		Toll Free: 800-765-0980 Fax: 615-726-3404	Creighton	2960 Foster Creighton Nashvilte, TN 37204	HE LEADER IN ENVIRONMENTAL TESTING	THE LEADER IN EN
			assist us in using the proper analytical	1		Phone: 615,726,0177	icion	Nachvilla Div		

T1072

2/6/2015

Login Sample Receipt Checklist

Client: Small Business Group Inc.

Job Number: 490-71072-1

List Source: TestAmerica Nashville

Login Number: 71072 List Number: 1

Creator: McBride, Mike

Greater: McDride, Mine			
Question	Answer	Comment	
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></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		











ATTACHMENT A



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EP	A ID No.	Manifest Doc	No.	2. Page 1	of L	j +s
3. Generator's Mailing Address: MCAS BEAUFORT LAUREL BAY HOUSING BEAUFORT, SC 29904 4. Generator's Phone 843-8	Gen	erator's Site Addres	5 (If different than n	nailing):		/MNA B. State	01519137 Generator's ID
5. Transporter 1 Company Name	· 60 1852	8. US EI	PA ID Number		D. Transp	ransporter's I porter's Phone ransporter's I	2-13700
9. Designated Facility Name and Site HICKORY HILL LANDFILL 2621 LOW COUNTRY DRIVE RIDGELAND, SC 29936	e Address	10. US I	PA ID Number	(IV)	G. State F	orter's Phone acility ID acility Phone	843-987-4643
11. Description of Waste Materials			12. Cc	ontainers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. HEATING OIL TANK FILLED	WITH SAND		1	24	10.06	TON	75307
b. WM Profile #	, 10203330		1100			Will UN	1 700
c. WM Profile #	WHEEPON WORLD		(110)	1	Maria	-11	-1111
d.			No.	Type	73.93H (En	WI7 (v)	ourur—v
J. Additional Descriptions for Mate			Cell	sal Location			Level
15. Special Handling Instructions and UST'S FROM Purchase Order # 16. GENERATOR'S CERTIFICATE: I hereby certify that the above-descraccurately described, classified and p	Ru/BAY	3) 933 A EMERGENCY		ONE NO.:	410 E		erry
Printed Name 17. Transporter 1 Acknowledgement	of Receipt of Materials	Signature "On b	ehalf of"	4	>		Month Day Ye
Printed Name Printed Name 18. Transporter 2 Acknowledgement Printed Name Shaw	han	Signature	W A				Month Day Ye
19. Certificate of Final Treatment/Di I certify, on behalf of the above listed applicable laws, regulations, permits 20. Facility Owner or Operator: Cert Printed Name White-TREATMENT, STORAGE, DISP	I treatment facility, that and licenses on the date	es listed above.	als covered by t			vas managed i	Month Day Ye

Pink- FACILITY USE ONLY

Gold-TRANSPORTER #1 COPY

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
131 Banyan 366 Aspen 134 Banyan 369 Aspen 145 Laurel Bay 373 Aspen 150 Laurel Bay 381 Aspen 153 Laurel Bay 401 Elderberry 154 Laurel Bay 402 Elderberry 200 Balsam 410 Elderberry 200 Balsam 420 Elderberry 203 Balsam 424 Elderberry 208 Balsam 435 Elderberry Tank 3 210 Balsam 452 Elderberry 211 Balsam 460 Elderberry 220 Cypress 465 Dogwood 222 Cypress 477 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 Ash 636 Dahlia 351 Ash Tank 1 637 Dahlia Tank 1 351 Ash Tank 1 641 Dahlia		
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318 Ash 628 Dahlia 337 Ash 636 Dahlia 351 Ash Tank 1 637 Dahlia Tank 1 351 Ash Tank 2 637 Dahlia Tank 2 355 Ash Tank 1 641 Dahlia	312 Ash	610 Dahlia
337 Ash 636 Dahlia 351 Ash Tank 1 637 Dahlia Tank 1 351 Ash Tank 2 637 Dahlia Tank 2 355 Ash Tank 1 641 Dahlia	317 Ash	612 Dahlia
351 Ash Tank 1 637 Dahlia Tank 1 351 Ash Tank 2 637 Dahlia Tank 2 355 Ash Tank 1 641 Dahlia	318 Ash	628 Dahlia
351 Ash Tank 2 637 Dahlia Tank 2 355 Ash Tank 1 641 Dahlia	337 Ash	636 Dahlia
355 Ash Tank 1 641 Dahlia	351 Ash Tank 1	637 Dahlia Tank 1
355 Ash Tank 1 641 Dahlia	351 Ash Tank 2	637 Dahlia Tank 2
355 Ash Tank 2 642 Dahlia Tank 1	355 Ash Tank 2	642 Dahlia Tank 1
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	