SUMMARY REPORT 58 DOLPHIN STREET (FORMERLY 853 DOLPHIN 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

JUNE 2021

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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
СТО	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 58 Dolphin Street (Formerly 853 Dolphin 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.



Summary Report 58 Dolphin Street (Formerly 853 Dolphin Street) Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort June 2021

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 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 58 Dolphin Street (Formerly 853 Dolphin Street). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 853 Dolphin Street* (MCAS Beaufort, 2013). The UST Assessment Report is provided in Appendix B.

### 2.1 UST Removal and Soil Sampling

On October 3, 2012, a single 280 gallon heating oil UST was removed from the back yard under the patio area at 58 Dolphin Street (Formerly 853 Dolphin Street). The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). The UST was removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of the UST was 5'8" bgs and a single soil sample was collected from that depth. The sample was collected from the fill port side of the former UST to represent a worst case scenario.

Following UST removal, a soil sample was collected from the base of the excavation and shipped to an offsite laboratory for analysis of the petroleum COPCs. Sampling was performed in



accordance with applicable South Carolina regulation R.61-92, Part 280 (SCDHEC, 2017) and assessment 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 58 Dolphin Street (Formerly 853 Dolphin 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 58 Dolphin Street (Formerly 853 Dolphin Street). This NFA determination was obtained in a letter dated May 15, 2014. SCDHEC's NFA letter is provided in Appendix C.

### 4.0 REFERENCES

- Marine Corps Air Station Beaufort, 2013. South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 853 Dolphin Street, Laurel Bay Military Housing Area, February 2013.
- 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 1Laboratory Analytical Results - Soil58 Dolphin Street (Formerly 853 Dolphin Street)Laurel Bay Military Housing AreaMarine Corps Air Station BeaufortBeaufort, South Carolina

Constituent	SCDHEC RBSLs <sup>(1)</sup>	Results Sample Collected 10/03/12	
Volatile Organic Compounds Analyzed	by EPA Method 8260B (mg/kg)		
Benzene	0.003	ND	
Ethylbenzene	1.15	ND	
Naphthalene	0.036	ND	
Toluene	0.627	ND	
Xylenes, Total	13.01	ND	
Semivolatile Organic Compounds Anal	yzed by EPA Method 8270D (mg/kg)		
Benzo(a)anthracene	0.66	ND	
Benzo(b)fluoranthene	0.66	ND	
Benzo(k)fluoranthene	0.66	ND	
Chrysene	0.66	ND	
Dibenz(a,h)anthracene	0.66	ND	

### Notes:

<sup>(1)</sup> South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 2.0 (SCDHEC, April 2013).

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

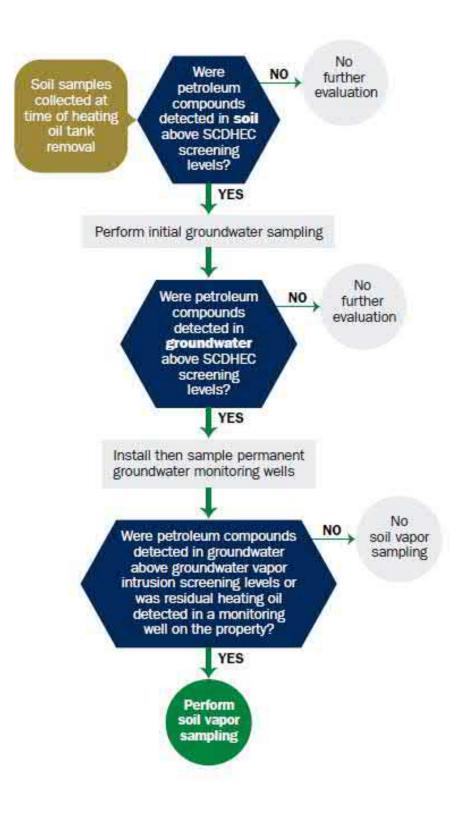
ND - not detected at the reporting limit (or method detection limit if shown on the laboratory report). The laboratory report is provided in Appendix B.

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



### Attachment 1

### 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)

	nding Officer Attn: NR	EAO (Craig Ehde)			
Owner Name (Corporation, Individual, Public Agency, Other)					
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 Mili	ary Housing Area, Marine (	Corps Air Station, Beaufort, SC
Facility Name or Compa	•	
853 Dolphin Str Street Address or State F	eet, Laurel Bay Military He	Housing Area
8		
Beaufort,	Beaufort	
City	County	
L		Attachment 2

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)

Notary Public for the state of \_\_\_\_\_\_. Please affix State seal if you are commissioned outside South Carolina

### VI. UST INFORMATION

		853Dolphin
A.	Product(ex. Gas, Kerosene)	Heating oil
B.	Capacity(ex. 1k, 2k)	280 gal
C.	Age	Late 1950s
D.	Construction Material(ex. Steel, FRP)	Steel
Е·	Month/Year of Last Use	Mid 1980s
F.	Depth (ft.) To Base of Tank	5'8"
G.	Spill Prevention Equipment Y/N	NO
H·	Overfill Prevention Equipment Y/N	No
	Method of Closure Removed/Filled	Removed
I. I	Date Tanks Removed/Filled	10/3/2012
K.	Visible Corrosion or Pitting Y/N	Yes
L.	Visible Holes Y/N	Yes

M. Method of disposal for any USTs removed from the ground (attach disposal manifests) <u>UST 853Dolphin was removed from the ground and disposed at a</u> Subtitle "D" landfill. See Attachment "A".

N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests) UST 853Dolphin had been previously filled with sand by others.

### O. If any corrosion, pitting, or holes were observed, describe the location and extent for each UST <u>Corrosion</u>, pitting and holes were found throughout the tank.

### **VII. PIPING INFORMATION**

		853Dolphin
		Steel
A.	Construction Material(ex. Steel, FRP)	& Copper
B.	Distance from UST to Dispenser	N/A
C.	Number of Dispensers	N/A
D.	Type of System Pressure or Suction	Suction
E.	Was Piping Removed from the Ground? Y/N	No
F.	Visible Corrosion or Pitting Y/N	Yes
G.	Visible Holes Y/N	No
H.	Age	Late 1950s
I.	If any corrosion, pitting, or holes were observed, de	scribe the location and extent for each piping run.

Corrosion and pitting were found on the surface of the steel vent pipe. Copper supply and return lines were sound.

### **VIII. BRIEF SITE DESCRIPTION AND HISTORY**

The USTs at the residences are constructed of single wall steel and formerly contained fuel oil for heating. These USTs were installed in the late 1950s and last used in the mid 1980s.

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

### IX. SITE CONDITIONS

### 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 #
853 Dolphin	Excav at fill end	Soil	Sandy	5'8"	10/3/12 1200 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.

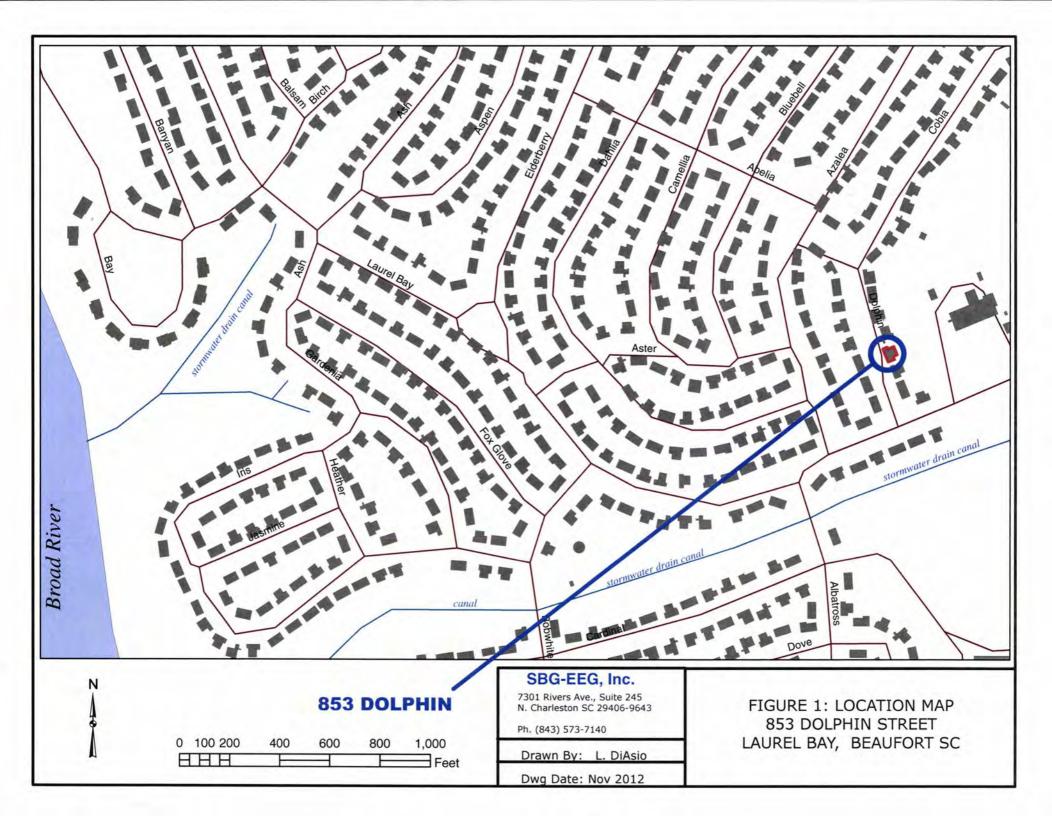
### **XII. RECEPTORS**

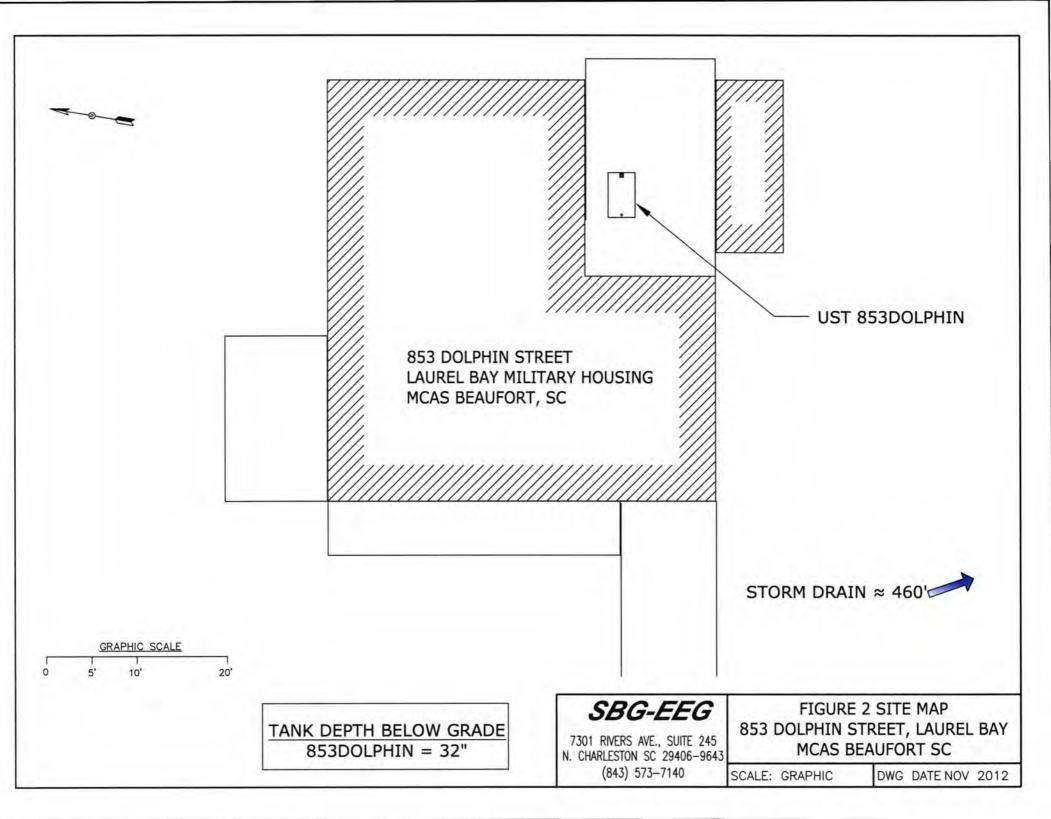
		Yes	No
Α.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?	*X	
	•	canal	
	If yes, indicate type of receptor, distance, and direction on site map.		
B.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?		Х
	If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

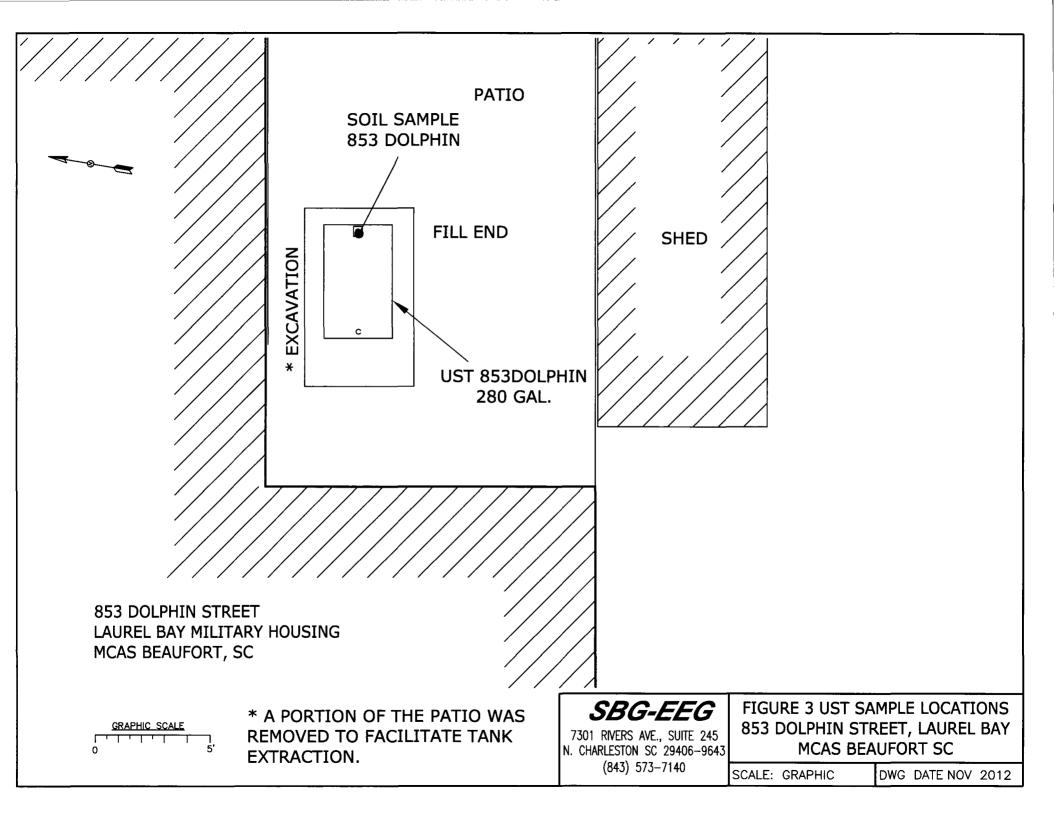
### XIII. SITE MAP

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

(Attach Site Map Here)









Picture 1: Location of UST 853Dolphin.



Picture 2: UST 853Dolphin excavation.

### XIV. SUMMARY OF ANALYSIS RESULTS

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

CoC UST	953Dolphin			
CoC UST	853Dolphin	 		 
Benzene	ND	 		 
Toluene	ND	 		
Ethylbenzene	ND			
Xylenes	ND			
Naphthalene	ND			
Benzo (a) anthracene	ND			
Benzo (b) fluoranthene	ND			
Benzo (k) fluoranthene	ND			
Chrysene	ND			
Dibenz (a, h) anthracene	ND			
ТРН (ЕРА 3550)				
[ <b></b>		 		
CoC		 		
Benzene				
Toluene				
Ethylbenzene				
Xylenes				
Naphthalene				
Benzo (a) anthracene				
Benzo (b) fluoranthene				
Benzo (k) fluoranthene				
Chrysene				
Dibenz (a, h) anthracene				
ТРН (ЕРА 3550)				

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

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

### XV. ANALYTICAL RESULTS

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

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

## **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: 490-8693-1

Client Project/Site: Laurel Bay Housing Project

### For:

Environmental Enterprise Group 10179 Highway 78 Ladson, South Carolina 29456

Attn: Mr. Tom McElwee

Kuth Hay

Authorized for release by: 10/22/2012 6:17:54 PM

Ken Hayes Project Manager I 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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### **Table of Contents**

### **Sample Summary**

### TestAmerica Job ID: 490-8693-1

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### Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-8693-1	508 Laurel Bay	Solid	10/01/12 15:00	10/09/12 08:00
490-8693-2	704 Bluebell	Solid	10/02/12 11:45	10/09/12 08:00
490-8693-3	853 Dolphin	Solid	10/03/12 12:00	10/09/12 08:00
490-8693-4	1351 Cardinal	Solid	10/04/12 14:15	10/09/12 08:00

TestAmerica Job ID: 490-8693-1

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project

### Job ID: 490-8693-1

### Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-8693-1

### Comments

No additional comments.

### Receipt

The samples were received on 10/9/2012 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.4° C.

### GC/MS VOA

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 27218.

Method(s) 8260B: The method blank for batch 27218 contained Naphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No other analytical or quality issues were noted.

### GC/MS Semi VOA

No analytical or quality issues were noted.

### **Organic Prep**

Method(s) Moisture: The sample duplicate precision for the following sample associated with batch 26781 was outside control limits: (500-51048-1 DU). The associated Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) precision met acceptance criteria.

No other analytical or quality issues were noted.

### **VOA Prep**

No analytical or quality issues were noted.

### **Definitions/Glossary**

### Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project

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### Qualifiers

GC	/MS	VOA

Qualifier	Qualifier Description
В	Compound was found in the blank and sample.
J	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	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.	
\$	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CNF	Contains no Free Liquid	
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
EDL	Estimated Detection Limit	
EPA	United States Environmental Protection Agency	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
ND	Not detected at the reporting limit (or MDL or EDL if shown)	
PQL	Practical Quantitation Limit	
QC	Quality Control	
RL	Reporting Limit	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	

### Client Sample ID: 508 Laurel Bay Date Collected: 10/01/12 15:00 Date Received: 10/09/12 08:00

### Lab Sample ID: 490-8693-1 Matrix: Solid Percent Solids: 89.2

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00221	0.000741	mg/Kg	ø	10/09/12 16:36	10/11/12 16:19	1
Ethylbenzene	ND		0.00221	0.000741	mg/Kg	¢	10/09/12 16:36	10/11/12 16:19	1
Naphthalene	0.00217	JB	0.00553	0.00188	mg/Kg	森	10/09/12 16:36	10/11/12 16:19	1
Toluene	ND		0.00221	0.000819	mg/Kg	\$\$	10/09/12 16:36	10/11/12 16:19	1
Xylenes, Total	ND		0.00553	0.000741	mg/Kg	\$	10/09/12 16:36	10/11/12 16:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130				10/09/12 16:36	10/11/12 16:19	1
4-Bromofluorobenzene (Surr)	111		70 - 130				10/09/12 16:36	10/11/12 16:19	1
Dibromofluoromethane (Surr)	102		70 - 130				10/09/12 16:36	10/11/12 16:19	1
Toluene-d8 (Surr)	108		70 - 130				10/09/12 16:36	10/11/12 16:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0662	0.00988	mg/Kg	\$	10/12/12 13:26	10/15/12 17:51	1
Acenaphthylene	ND		0.0662	0.00889	mg/Kg	\$	10/12/12 13:26	10/15/12 17:51	1
Anthracene	ND		0.0662	0.00889	mg/Kg	¢	10/12/12 13:26	10/15/12 17:51	1
Benzo[a]anthracene	ND		0.0662	0.0148	mg/Kg	¢	10/12/12 13:26	10/15/12 17:51	1
Benzo[a]pyrene	ND		0.0662	0.0119	mg/Kg	¢	10/12/12 13:26	10/15/12 17:51	1
Benzo[b]fluoranthene	ND		0.0662	0.0119	mg/Kg	\$	10/12/12 13:26	10/15/12 17:51	1
Benzo[g,h,i]perylene	ND		0.0662	0.00889	mg/Kg	¢	10/12/12 13:26	10/15/12 17:51	1
Benzo[k]fluoranthene	ND		0.0662	0.0138	mg/Kg	0	10/12/12 13:26	10/15/12 17:51	1
Pyrene	ND		0.0662	0.0119	mg/Kg	\$	10/12/12 13:26	10/15/12 17:51	1
Phenanthrene	ND		0.0662	0.00889	mg/Kg	¢.	10/12/12 13:26	10/15/12 17:51	1
Chrysene	ND		0.0662	0.00889	mg/Kg	\$	10/12/12 13:26	10/15/12 17:51	1
Dibenz(a,h)anthracene	ND		0.0662	0.00692	mg/Kg	\$	10/12/12 13:26	10/15/12 17:51	1
Fluoranthene	ND		0.0662	0.00889	mg/Kg	\$	10/12/12 13:26	10/15/12 17:51	1
Fluorene	ND		0.0662	0.0119	mg/Kg	\$	10/12/12 13:26	10/15/12 17:51	1
Indeno[1,2,3-cd]pyrene	ND		0.0662	0.00988	mg/Kg	Q	10/12/12 13:26	10/15/12 17:51	1
Naphthalene	ND		0.0662	0.00889	mg/Kg	ø	10/12/12 13:26	10/15/12 17:51	1
2-Methylnaphthalene	ND		0.0662	0.0158	mg/Kg	\$	10/12/12 13:26	10/15/12 17:51	1
1-Methylnaphthalene	ND		0.0662	0.0138	mg/Kg	ø	10/12/12 13:26	10/15/12 17:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	53		29 - 120				10/12/12 13:26	10/15/12 17:51	1
Terphenyl-d14 (Surr)	79		13 - 120				10/12/12 13:26	10/15/12 17:51	1
Nitrobenzene-d5 (Surr)	54		27 - 120				10/12/12 13:26	10/15/12 17:51	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89		0.10	0.10	%			10/09/12 15:35	1

### Client Sample ID: 704 Bluebell

Date Collected: 10/02/12 11:45 Date Received: 10/09/12 08:00

Method: 8260B - Volatile Orga	nic Compounds	(GC/MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00219	0.000735	mg/Kg	12	10/09/12 16:36	10/11/12 16:46	1
Ethylbenzene	ND		0.00219	0.000735	mg/Kg	ø	10/09/12 16:36	10/11/12 16:46	1
Naphthalene	ND		0.00549	0.00187	mg/Kg	\$	10/09/12 16:36	10/11/12 16:46	1
Toluene	ND		0.00219	0.000812	mg/Kg	0	10/09/12 16:36	10/11/12 16:46	1
Xylenes, Total	ND		0.00549	0.000735	mg/Kg	D	10/09/12 16:36	10/11/12 16:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 130				10/09/12 16:36	10/11/12 16:46	1
4-Bromofluorobenzene (Surr)	113		70 - 130				10/09/12 16:36	10/11/12 16:46	1
Dibromofluoromethane (Surr)	102		70 - 130				10/09/12 16:36	10/11/12 16:46	1
Toluene-d8 (Surr)	107		70 - 130				10/09/12 16:36	10/11/12 16:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0661	0.00987	mg/Kg	÷D	10/12/12 13:26	10/15/12 18:12	1
Acenaphthylene	ND		0.0661	0.00888	mg/Kg	ø	10/12/12 13:26	10/15/12 18:12	1
Anthracene	0.0244	J	0.0661	0.00888	mg/Kg	\$\$5	10/12/12 13:26	10/15/12 18:12	1
Benzo[a]anthracene	0.132		0.0661	0.0148	mg/Kg	\$	10/12/12 13:26	10/15/12 18:12	1
Benzo[a]pyrene	ND		0.0661	0.0118	mg/Kg	Ċ.	10/12/12 13:26	10/15/12 18:12	1
Benzo[b]fluoranthene	ND		0.0661	0.0118	mg/Kg	Ģ	10/12/12 13:26	10/15/12 18:12	1
Benzo[g,h,i]perylene	ND		0.0661	0.00888	mg/Kg	\$	10/12/12 13:26	10/15/12 18:12	1
Benzo[k]fluoranthene	ND		0.0661	0.0138	mg/Kg	Ø	10/12/12 13:26	10/15/12 18:12	1
Pyrene	0.372		0.0661	0.0118	mg/Kg	O.	10/12/12 13:26	10/15/12 18:12	1
Phenanthrene	0.0649	J	0.0661	0.00888	mg/Kg	Q	10/12/12 13:26	10/15/12 18:12	1
Chrysene	0.0702		0.0661	0.00888	mg/Kg	0	10/12/12 13:26	10/15/12 18:12	1
Dibenz(a,h)anthracene	ND		0.0661	0.00691	mg/Kg	0	10/12/12 13:26	10/15/12 18:12	1
Fluoranthene	0.448		0.0661	0.00888	mg/Kg	0	10/12/12 13:26	10/15/12 18:12	1
Fluorene	ND		0.0661	0.0118	mg/Kg	0	10/12/12 13:26	10/15/12 18:12	1
Indeno[1,2,3-cd]pyrene	ND		0.0661	0.00987	mg/Kg	\$	10/12/12 13:26	10/15/12 18:12	1
Naphthalene	ND		0.0661	0.00888	mg/Kg	\$	10/12/12 13:26	10/15/12 18:12	1
2-Methylnaphthalene	ND		0.0661	0.0158	mg/Kg	0	10/12/12 13:26	10/15/12 18:12	1
1-Methylnaphthalene	ND		0.0661	0.0138	mg/Kg	¢	10/12/12 13:26	10/15/12 18:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	58		29 - 120				10/12/12 13:26	10/15/12 18:12	1
Terphenyl-d14 (Surr)	77		13 - 120				10/12/12 13:26	10/15/12 18:12	1
Nitrobenzene-d5 (Surr)	56		27 - 120				10/12/12 13:26	10/15/12 18:12	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95		0.10	0.10	%			10/09/12 15:35	1

### Lab Sample ID: 490-8693-2 Matrix: Solid

Percent Solids: 95.3

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Lab Sample ID: 490-8693-3

Matrix: Solid

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Percent Solids: 91.1

## Client Sample ID: 853 Dolphin

Date Collected: 10/03/12 12:00 Date Received: 10/09/12 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00238	0.000797	mg/Kg	53	10/09/12 16:36	10/11/12 17:13	1
Ethylbenzene	ND		0.00238	0.000797	mg/Kg	*	10/09/12 16:36	10/11/12 17:13	1
Naphthalene	ND		0.00595	0.00202	mg/Kg	\$	10/09/12 16:36	10/11/12 17:13	1
Toluene	ND		0.00238	0.000881	mg/Kg	-22	10/09/12 16:36	10/11/12 17:13	1
Xylenes, Total	ND		0.00595	0.000797	mg/Kg	Ø	10/09/12 16:36	10/11/12 17:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130				10/09/12 16:36	10/11/12 17:13	1
4-Bromofluorobenzene (Surr)	110		70 - 130				10/09/12 16:36	10/11/12 17:13	1
Dibromofluoromethane (Surr)	103		70 - 130				10/09/12 16:36	10/11/12 17:13	1
Toluene-d8 (Surr)	109		70 - 130				10/09/12 16:36	10/11/12 17:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0650	0.00970	mg/Kg	\$	10/12/12 13:26	10/15/12 18:33	1
Acenaphthylene	ND		0.0650	0.00873	mg/Kg	\$	10/12/12 13:26	10/15/12 18:33	1
Anthracene	ND		0.0650	0.00873	mg/Kg	¢	10/12/12 13:26	10/15/12 18:33	1
Benzo[a]anthracene	ND		0.0650	0.0146	mg/Kg	æ	10/12/12 13:26	10/15/12 18:33	1
Benzo[a]pyrene	ND		0.0650	0.0116	mg/Kg	0	10/12/12 13:26	10/15/12 18:33	1
Benzo[b]fluoranthene	ND		0.0650	0.0116	mg/Kg	¢	10/12/12 13:26	10/15/12 18:33	1
Benzo[g,h,i]perylene	ND		0.0650	0.00873	mg/Kg	0	10/12/12 13:26	10/15/12 18:33	1
Benzo[k]fluoranthene	ND		0.0650	0.0136	mg/Kg	Ø	10/12/12 13:26	10/15/12 18:33	1
Pyrene	ND		0.0650	0.0116	mg/Kg	\$	10/12/12 13:26	10/15/12 18:33	1
Phenanthrene	ND		0.0650	0.00873	mg/Kg	ø	10/12/12 13:26	10/15/12 18:33	1
Chrysene	ND		0.0650	0.00873	mg/Kg	ø	10/12/12 13:26	10/15/12 18:33	1
Dibenz(a,h)anthracene	ND		0.0650	0.00679	mg/Kg	4	10/12/12 13:26	10/15/12 18:33	1
Fluoranthene	ND		0.0650	0.00873	mg/Kg	\$	10/12/12 13:26	10/15/12 18:33	1
Fluorene	ND		0.0650	0.0116	mg/Kg	\$	10/12/12 13:26	10/15/12 18:33	1
Indeno[1,2,3-cd]pyrene	ND		0.0650	0.00970	mg/Kg	ø	10/12/12 13:26	10/15/12 18:33	1
Naphthalene	ND		0.0650	0.00873	mg/Kg	ø	10/12/12 13:26	10/15/12 18:33	1
2-Methylnaphthalene	ND		0.0650	0.0155	mg/Kg	¢	10/12/12 13:26	10/15/12 18:33	1
1-Methylnaphthalene	ND		0.0650	0.0136	mg/Kg	¢.	10/12/12 13:26	10/15/12 18:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	45	1	29 - 120				10/12/12 13:26	10/15/12 18:33	1
Terphenyl-d14 (Surr)	67		13 - 120				10/12/12 13:26	10/15/12 18:33	1
Nitrobenzene-d5 (Surr)	43		27 - 120				10/12/12 13:26	10/15/12 18:33	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	91		0.10	0.10	%			10/09/12 15:35	1

### Client Sample ID: 1351 Cardinal Date Collected: 10/04/12 14:15 Date Received: 10/09/12 08:00

### Lab Sample ID: 490-8693-4 Matrix: Solid Percent Solids: 82.0

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0311		0.00226	0.000756	mg/Kg	Ø	10/09/12 16:36	10/11/12 17:40	1
Ethylbenzene	0.00919		0.00226	0.000756	mg/Kg	\$	10/09/12 16:36	10/11/12 17:40	1
Naphthalene	0.0181	В	0.00564	0.00192	mg/Kg	¢	10/09/12 16:36	10/11/12 17:40	1
Toluene	0.0529		0.00226	0.000835	mg/Kg	¢	10/09/12 16:36	10/11/12 17:40	1
Xylenes, Total	0.0540		0.00564	0.000756	mg/Kg	\$	10/09/12 16:36	10/11/12 17:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 130				10/09/12 16:36	10/11/12 17:40	1
4-Bromofluorobenzene (Surr)	109		70 - 130				10/09/12 16:36	10/11/12 17:40	1
Dibromofluoromethane (Surr)	103		70 - 130				10/09/12 16:36	10/11/12 17:40	1
Toluene-d8 (Surr)	108		70 - 130				10/09/12 16:36	10/11/12 17:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0654	0.00976	mg/Kg	\$	10/12/12 13:26	10/15/12 18:53	1
Acenaphthylene	ND		0.0654	0.00878	mg/Kg	\$	10/12/12 13:26	10/15/12 18:53	1
Anthracene	ND		0.0654	0.00878	mg/Kg	¢	10/12/12 13:26	10/15/12 18:53	1
Benzo[a]anthracene	ND		0.0654	0.0146	mg/Kg	0	10/12/12 13:26	10/15/12 18:53	1
Benzo[a]pyrene	ND		0.0654	0.0117	mg/Kg	\$	10/12/12 13:26	10/15/12 18:53	1
Benzo[b]fluoranthene	ND		0.0654	0.0117	mg/Kg	ø	10/12/12 13:26	10/15/12 18:53	1
Benzo[g,h,i]perylene	ND		0.0654	0.00878	mg/Kg	æ	10/12/12 13:26	10/15/12 18:53	1
Benzo[k]fluoranthene	ND		0.0654	0.0137	mg/Kg	¢	10/12/12 13:26	10/15/12 18:53	1
Pyrene	ND		0.0654	0.0117	mg/Kg	¢	10/12/12 13:26	10/15/12 18:53	1
Phenanthrene	ND		0.0654	0.00878	mg/Kg	\$	10/12/12 13:26	10/15/12 18:53	1
Chrysene	ND		0.0654	0.00878	mg/Kg	ø	10/12/12 13:26	10/15/12 18:53	1
Dibenz(a,h)anthracene	ND		0.0654	0.00683	mg/Kg	\$	10/12/12 13:26	10/15/12 18:53	1
Fluoranthene	ND		0.0654	0.00878	mg/Kg	\$	10/12/12 13:26	10/15/12 18:53	1
Fluorene	ND		0.0654	0.0117	mg/Kg	\$	10/12/12 13:26	10/15/12 18:53	1
Indeno[1,2,3-cd]pyrene	ND		0.0654	0.00976	mg/Kg	\$	10/12/12 13:26	10/15/12 18:53	1
Naphthalene	ND		0.0654	0.00878	mg/Kg	¢	10/12/12 13:26	10/15/12 18:53	1
2-Methylnaphthalene	ND		0.0654	0.0156	mg/Kg	\$	10/12/12 13:26	10/15/12 18:53	1
1-Methylnaphthalene	ND		0.0654	0.0137	mg/Kg	\$	10/12/12 13:26	10/15/12 18:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	61		29 - 120				10/12/12 13:26	10/15/12 18:53	1
Terphenyl-d14 (Surr)	72		13 - 120				10/12/12 13:26	10/15/12 18:53	1
Nitrobenzene-d5 (Surr)	63		27 - 120				10/12/12 13:26	10/15/12 18:53	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82		0.10	0.10	%	-		10/09/12 15:35	1

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

Lab Sample ID: MB 490-27218/6							Client S	ample ID: Metho	d Blank
Matrix: Solid								Prep Type: T	otal/NA
Analysis Batch: 27218									
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000670	mg/Kg			10/11/12 08:55	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			10/11/12 08:55	1
Naphthalene	0.002298	J	0.00500	0.00170	mg/Kg			10/11/12 08:55	1
Toluene	ND		0.00200	0.000740	mg/Kg			10/11/12 08:55	1
Xylenes, Total	ND		0.00500	0.000670	mg/Kg			10/11/12 08:55	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130					10/11/12 08:55	1
4-Bromofluorobenzene (Surr)	110		70 - 130					10/11/12 08:55	1
Dibromofluoromethane (Surr)	102		70 - 130					10/11/12 08:55	1
Toluene-d8 (Surr)	109		70 - 130					10/11/12 08:55	1

### Lab Sample ID: LCS 490-27218/3 Matrix: Solid Analysis Batch: 27218

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.0500	0.04811		mg/Kg		96	75 - 127	
Ethylbenzene	0.0500	0.04986		mg/Kg		100	80 - 134	
Naphthalene	0.0500	0.05048		mg/Kg		101	69 - 150	
Toluene	0.0500	0.05028		mg/Kg		101	80 - 132	
Xylenes, Total	0.150	0.1537		mg/Kg		102	80 - 137	
	the second							

LCS	LCS	
%Recovery	Qualifier	Limits
93		70 - 130
112		70 - 130
101		70 - 130
107		70 - 130
	%Recovery 93 112 101	93 112 101

### Lab Sample ID: LCSD 490-27218/4 Matrix: Solid

### **Analysis Batch**

Analyte

Benzene

Toluene

Ethylbenzene

Naphthalene

Xylenes, Total

h: 27218							Prep 1	ype: 10	al/NA
1. 21210	Spike	LCSD	LCSD				%Rec.		RPD
	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	0.0500	0.04930		mg/Kg		99	75 - 127	2	50
	0.0500	0.05083		mg/Kg		102	80 - 134	2	50
	0.0500	0.04942		mg/Kg		99	69 - 150	2	50
	0.0500	0.05153		mg/Kg		103	80 - 132	2	50
	0.0500	0.05153		mg/Kg		103	80 - 132	2	

0.1549

LCSD	LCSD	
%Recovery	Qualifier	Limits
94		70 - 130
110		70 - 130
102		70 - 130
109		70 - 130
	%Recovery 94 110 102	94 110 102

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

50

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

80 - 137

103

mg/Kg

0.150

**Client Sample ID: Method Blank** 

10/12/12 13:26

10/12/12 13:26

10/15/12 11:19

10/15/12 11:19

Prep Type: Total/NA

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

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

#### Lab Sample ID: MB 490-27734/1-A Matrix: Solid Analysis Batch: 28036

matrix. Gond								Trop Type.	Clanter
Analysis Batch: 28036								Prep Batch	n: 27734
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0100	mg/Kg		10/12/12 13:26	10/15/12 11:19	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		10/12/12 13:26	10/15/12 11:19	1
Anthracene	ND		0.0670	0.00900	mg/Kg		10/12/12 13:26	10/15/12 11:19	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		10/12/12 13:26	10/15/12 11:19	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		10/12/12 13:26	10/15/12 11:19	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		10/12/12 13:26	10/15/12 11:19	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		10/12/12 13:26	10/15/12 11:19	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		10/12/12 13:26	10/15/12 11:19	1
Pyrene	ND		0.0670	0.0120	mg/Kg		10/12/12 13:26	10/15/12 11:19	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		10/12/12 13:26	10/15/12 11:19	1
Chrysene	ND		0.0670	0.00900	mg/Kg		10/12/12 13:26	10/15/12 11:19	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		10/12/12 13:26	10/15/12 11:19	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg		10/12/12 13:26	10/15/12 11:19	1
Fluorene	ND		0.0670	0.0120	mg/Kg		10/12/12 13:26	10/15/12 11:19	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		10/12/12 13:26	10/15/12 11:19	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		10/12/12 13:26	10/15/12 11:19	1
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		10/12/12 13:26	10/15/12 11:19	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		10/12/12 13:26	10/15/12 11:19	1
	мв	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	72		29 - 120				10/12/12 13:26	10/15/12 11:19	1

Lab Sample ID: LCS 490-27734	/2-A
Matrix: Solid	

### Analysis Batch: 28036

Terphenyl-d14 (Surr)

Surrogate

Nitrobenzene-d5 (Surr)

Analysis Batch: 28036								Prep Batch: 27734
		Spike	LCS	LCS				%Rec.
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits
Acenaphthylene		1.67	1.355		mg/Kg		81	38 - 120
Anthracene		1.67	1.373		mg/Kg		82	46 - 124
Benzo[a]anthracene		1.67	1.417		mg/Kg		85	45 - 120
Benzo[a]pyrene		1.67	1.493		mg/Kg		90	45 - 120
Benzo[b]fluoranthene		1.67	1.419		mg/Kg		85	42 - 120
Benzo[g,h,i]perylene		1.67	1.383		mg/Kg		83	38 - 120
Benzo[k]fluoranthene		1.67	1.581		mg/Kg		95	42 - 120
Pyrene		1.67	1.455		mg/Kg		87	43 - 120
Phenanthrene		1.67	1.378		mg/Kg		83	45 - 120
Chrysene		1.67	1.380		mg/Kg		83	43 - 120
Dibenz(a,h)anthracene		1.67	1.264		mg/Kg		76	32 - 128
Fluoranthene		1.67	1.386		mg/Kg		83	46 - 120
Fluorene		1.67	1.458		mg/Kg		87	42 - 120
Indeno[1,2,3-cd]pyrene		1.67	1.385		mg/Kg		83	41 - 121
Naphthalene		1.67	1.372		mg/Kg		82	32 - 120
2-Methylnaphthalene		1.67	1.281		mg/Kg		77	28 - 120
1-Methylnaphthalene		1.67	1.239		mg/Kg		74	32 - 120
	LCS LCS							

13 - 120

27 - 120

95

69

TestAmerica Nashville 10/22/2012

Limits 29 - 120

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 27734

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

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

### Lab Sample ID: LCS 490-27734/2-A Matrix: Solid Analysis Batch: 28036

LCS	LCS	
%Recovery	Qualifier	Limits
75		13 - 120

Terphenyl-d14 (Surr) Nitrobenzene-d5 (Surr)	75	13 - 120
Nitrobenzene-d5 (Surr)	56	27 - 120

### Lab Sample ID: LCSD 490-27734/3-A Matrix: Solid

#### . . . . . . . ----

Surrogate

Analysis Batch: 28036							Prep	Batch:	27734
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthylene	1.67	1.501		mg/Kg		90	38 - 120	10	50
Anthracene	1.67	1.470		mg/Kg		88	46 - 124	7	49
Benzo[a]anthracene	1.67	1.504		mg/Kg		90	45 - 120	6	50
Benzo[a]pyrene	1.67	1.582		mg/Kg		95	45 - 120	6	50
Benzo[b]fluoranthene	1.67	1.454		mg/Kg		87	42 - 120	2	50
Benzo[g,h,i]perylene	1.67	1.462		mg/Kg		88	38 - 120	6	50
Benzo[k]fluoranthene	1.67	1.628		mg/Kg		98	42 - 120	3	45
Pyrene	1.67	1.550		mg/Kg		93	43 - 120	6	50
Phenanthrene	1.67	1.479		mg/Kg		89	45 - 120	7	50
Chrysene	1.67	1.489		mg/Kg		89	43 - 120	8	49
Dibenz(a,h)anthracene	1.67	1.321		mg/Kg		79	32 - 128	4	50
Fluoranthene	1.67	1.471		mg/Kg		88	46 - 120	6	50
Fluorene	1.67	1.543		mg/Kg		93	42 - 120	6	50
Indeno[1,2,3-cd]pyrene	1.67	1.438		mg/Kg		86	41 - 121	4	50
Naphthalene	1.67	1.521		mg/Kg		91	32 - 120	10	50
2-Methylnaphthalene	1.67	1.421		mg/Kg		85	28 - 120	10	50
1-Methylnaphthalene	1.67	1.359		mg/Kg		82	32 - 120	9	50

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	64		29 - 120
Terphenyl-d14 (Surr)	80		13 - 120
Nitrobenzene-d5 (Surr)	61		27 - 120

### Lab Sample ID: 490-8674-A-8-E MS Matrix: Solid

#### Analysis Batch: 28036

Analysis Batch: 28036									Prep Batch: 27734
Analysis Datch. 20050	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acenaphthylene	0.0623	J	1.66	1.502		mg/Kg	ã	86	25 - 120
Anthracene	0.0907		1.66	1.431		mg/Kg	¢	81	28 - 125
Benzo[a]anthracene	0.382		1.66	1.680		mg/Kg	¢	78	23 - 120
Benzo[a]pyrene	0.373		1.66	1.860		mg/Kg	ø	89	15 - 128
Benzo[b]fluoranthene	0.845		1.66	2.110		mg/Kg	\$	76	12 - 133
Benzo[g,h,i]perylene	0.205		1.66	1.387		mg/Kg	¢	71	22 - 120
Benzo[k]fluoranthene	0.295		1.66	1.790		mg/Kg	\$	90	28 - 120
Pyrene	0.641		1.66	1.876		mg/Kg	\$	74	20 - 123
Phenanthrene	0.123		1.66	1.412		mg/Kg	ø	77	21 - 122
Chrysene	0.535		1.66	1.745		mg/Kg	0	73	20 - 120
Dibenz(a,h)anthracene	0.0666		1.66	1.208		mg/Kg	Q	69	12 - 128
Fluoranthene	0.638		1.66	1.899		mg/Kg	*	76	10 - 143
Fluorene	ND		1.66	1.441		mg/Kg	0	87	20 - 120

TestAmerica Nashville 10/22/2012

**Client Sample ID: Matrix Spike** 

Prep Type: Total/NA

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

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

63

65

59

Lab Sample ID: 490-8674-A-8-E M Matrix: Solid	S							Client	Sample ID: Matrix Spike Prep Type: Total/NA
Analysis Batch: 28036									Prep Batch: 27734
	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Indeno[1,2,3-cd]pyrene	0.202		1.66	1.380		mg/Kg	Ø	71	22 - 121
Naphthalene	0.0365	J	1.66	1.531		mg/Kg	ø	90	10 - 120
2-Methylnaphthalene	0.0410	J	1.66	1.405		mg/Kg	¢	82	13 - 120
1-Methylnaphthalene	0.0323	J	1.66	1.371		mg/Kg	ø	80	10 - 120
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
2-Fluorobiphenyl (Surr)	61		29 - 120						
Terphenyl-d14 (Surr)	72		13 - 120						

27 - 120

### Lab Sample ID: 490-8674-A-8-F MSD Matrix: Solid

Nitrobenzene-d5 (Surr)

Analysis Batch: 28036										Batch:	
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthylene	0.0623	J	1.63	1.505		mg/Kg	¢	89	25 - 120	0	50
Anthracene	0.0907		1.63	1.434		mg/Kg	¢	83	28 - 125	0	49
Benzo[a]anthracene	0.382		1.63	1.805		mg/Kg	¢	88	23 - 120	7	50
Benzo[a]pyrene	0.373		1.63	2.027		mg/Kg	\$\$E	102	15 - 128	9	50
Benzo[b]fluoranthene	0.845		1.63	2.799		mg/Kg	¢	120	12 - 133	28	50
Benzo[g,h,i]perylene	0.205		1.63	1.501		mg/Kg	¢	80	22 - 120	8	50
Benzo[k]fluoranthene	0.295		1.63	1.907		mg/Kg	¢	99	28 - 120	6	45
Pyrene	0.641		1.63	2.316		mg/Kg	ø	103	20 - 123	21	50
Phenanthrene	0.123		1.63	1.374		mg/Kg	¢	77	21 - 122	3	50
Chrysene	0.535		1.63	2.075		mg/Kg	¢	95	20 - 120	17	49
Dibenz(a,h)anthracene	0.0666		1.63	1.199		mg/Kg	<i>\$</i> 2	70	12 - 128	1	50
Fluoranthene	0.638		1.63	2.282		mg/Kg	ø	101	10 - 143	18	50
Fluorene	ND		1.63	1.419		mg/Kg	\$2	87	20 - 120	2	50
Indeno[1,2,3-cd]pyrene	0.202		1.63	1.508		mg/Kg	0	80	22 - 121	9	50
Naphthalene	0.0365	J	1.63	1.492		mg/Kg	<i>(</i> )	90	10 - 120	3	50
2-Methylnaphthalene	0.0410	J	1.63	1.413		mg/Kg	\$2	84	13 - 120	1	50
1-Methylnaphthalene	0.0323	J	1.63	1.355		mg/Kg	0	81	10 - 120	1	50
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
2-Fluorobiphenyl (Surr)	58		29 - 120								

Method:	Moisture	- Percent	Moisture

Terphenyl-d14 (Surr)

Nitrobenzene-d5 (Surr)

Lab Sample ID: 500-51048-B-1 DU Matrix: Solid							Client Sample ID: Dup Prep Type: To	
Analysis Batch: 26781								
	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Percent Solids	94		92		%		2	20

13 - 120

27 - 120

# **QC** Association Summary

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project

### GC/MS VOA

### Prep Batch: 26822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8693-1	508 Laurel Bay	Total/NA	Solid	5035	
490-8693-2	704 Bluebell	Total/NA	Solid	5035	
490-8693-3	853 Dolphin	Total/NA	Solid	5035	
490-8693-4	1351 Cardinal	Total/NA	Solid	5035	
analysis Batch: 2721	8				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8693-1	508 Laurel Bay	Total/NA	Solid	8260B	26822
490-8693-2	704 Bluebell	Total/NA	Solid	8260B	26822
490-8693-3	853 Dolphin	Total/NA	Solid	8260B	26822
490-8693-4	1351 Cardinal	Total/NA	Solid	8260B	26822
LCS 490-27218/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-27218/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

### GC/MS Semi VOA

### Prep Batch: 27734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8674-A-8-E MS	Matrix Spike	Total/NA	Solid	3550C	
490-8674-A-8-F MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	
490-8693-1	508 Laurel Bay	Total/NA	Solid	3550C	
490-8693-2	704 Bluebell	Total/NA	Solid	3550C	
490-8693-3	853 Dolphin	Total/NA	Solid	3550C	
490-8693-4	1351 Cardinal	Total/NA	Solid	3550C	
LCS 490-27734/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 490-27734/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
MB 490-27734/1-A	Method Blank	Total/NA	Solid	3550C	
Analysis Batch: 28036					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8674-A-8-E MS	Matrix Spike	Total/NA	Solid	8270D	27734
490-8674-A-8-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8270D	27734
490-8693-1	508 Laurel Bay	Total/NA	Solid	8270D	27734
490-8693-2	704 Bluebell	Total/NA	Solid	8270D	27734
490-8693-3	853 Dolphin	Total/NA	Solid	8270D	27734

Total/NA

Total/NA

Total/NA

Total/NA

Solid

Solid

Solid

Solid

8270D

8270D

8270D

8270D

490-8693-4 LCS 490-27734/2-A LCSD 490-27734/3-A MB 490-27734/1-A 1351 Cardinal

Method Blank

Lab Control Sample

Lab Control Sample Dup

### **General Chemistry**

### Analysis Batch: 26781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8693-1	508 Laurel Bay	Total/NA	Solid	Moisture	
490-8693-2	704 Bluebell	Total/NA	Solid	Moisture	
490-8693-3	853 Dolphin	Total/NA	Solid	Moisture	
490-8693-4	1351 Cardinal	Total/NA	Solid	Moisture	
500-51048-B-1 DU	Duplicate	Total/NA	Solid	Moisture	

27734

27734

27734

27734

Lab Sample ID: 490-8693-2

Lab Sample ID: 490-8693-3

Matrix: Solid

Matrix: Solid

Percent Solids: 91.1

Percent Solids: 95.3

<b>Client Samp</b>	le ID: 508 L	aurel Bay				1	ab Sample	ID: 490-8693-1
Date Collected: 10/01/12 15:00					Matrix: Solid			
Date Received	: 10/09/12 08:0	00					P	ercent Solids: 89.2
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			26822	10/09/12 16:36	ML	TAL NSH
Total/NA	Analysis	8260B		1	27218	10/11/12 16:19	AF	TAL NSH
Total/NA	Prep	3550C			27734	10/12/12 13:26	AK	TAL NSH
Total/NA	Analysis	8270D		1	28036	10/15/12 17:51	WS	TAL NSH
Total/NA	Analysis	Moisture		1	26781	10/09/12 15:35	RS	TAL NSH

### Client Sample ID: 704 Bluebell Date Collected: 10/02/12 11:45 Date Received: 10/09/12 08:00

Ргер Туре	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			26822	10/09/12 16:36	ML	TAL NSH
Total/NA	Analysis	8260B		1	27218	10/11/12 16:46	AF	TAL NSH
Total/NA	Prep	3550C			27734	10/12/12 13:26	AK	TAL NSH
Total/NA	Analysis	8270D		1	28036	10/15/12 18:12	WS	TAL NSH
Total/NA	Analysis	Moisture		1	26781	10/09/12 15:35	RS	TAL NSH

### Client Sample ID: 853 Dolphin Date Collected: 10/03/12 12:00

### Date Received: 10/09/12 08:00

Batch	Batch		Dilution	Batch	Prepared		
Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Prep	5035			26822	10/09/12 16:36	ML	TAL NSH
Analysis	8260B		1	27218	10/11/12 17:13	AF	TAL NSH
Prep	3550C			27734	10/12/12 13:26	AK	TAL NSH
Analysis	8270D		1	28036	10/15/12 18:33	WS	TAL NSH
Analysis	Moisture		1	26781	10/09/12 15:35	RS	TAL NSH
	<b>Type</b> Prep Analysis Prep Analysis	TypeMethodPrep5035Analysis8260BPrep3550CAnalysis8270D	TypeMethodRunPrep5035Analysis8260BPrep3550CAnalysis8270D	TypeMethodRunFactorPrep50351Analysis8260B1Prep3550C1Analysis8270D1	Type         Method         Run         Factor         Number           Prep         5035         26822           Analysis         8260B         1         27218           Prep         3550C         27734         27734           Analysis         8270D         1         28036	Type         Method         Run         Factor         Number         or Analyzed           Prep         5035         26822         10/09/12 16:36           Analysis         8260B         1         27218         10/11/12 17:13           Prep         3550C         27734         10/12/12 13:26           Analysis         8270D         1         28036         10/15/12 18:33	Type         Method         Run         Factor         Number         or Analyzed         Analyst           Prep         5035         26822         10/09/12 16:36         ML           Analysis         8260B         1         27218         10/11/12 17:13         AF           Prep         3550C         27734         10/12/12 13:26         AK           Analysis         8270D         1         28036         10/15/12 18:33         WS

### Client Sample ID: 1351 Cardinal Date Collected: 10/04/12 14:15 Date Received: 10/09/12 08:00

Lab	Sample	ID:	490-80	593-4
			Matrix:	Solid

-				
Perce	nt	Sol	ids:	82.0

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			26822	10/09/12 16:36	ML	TAL NSH
Total/NA	Analysis	8260B		1	27218	10/11/12 17:40	AF	TAL NSH
Total/NA	Prep	3550C			27734	10/12/12 13:26	AK	TAL NSH
Total/NA	Analysis	8270D		1	28036	10/15/12 18:53	WS	TAL NSH
Total/NA	Analysis	Moisture		1	26781	10/09/12 15:35	RS	TAL NSH

#### Laboratory References:

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

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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: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project

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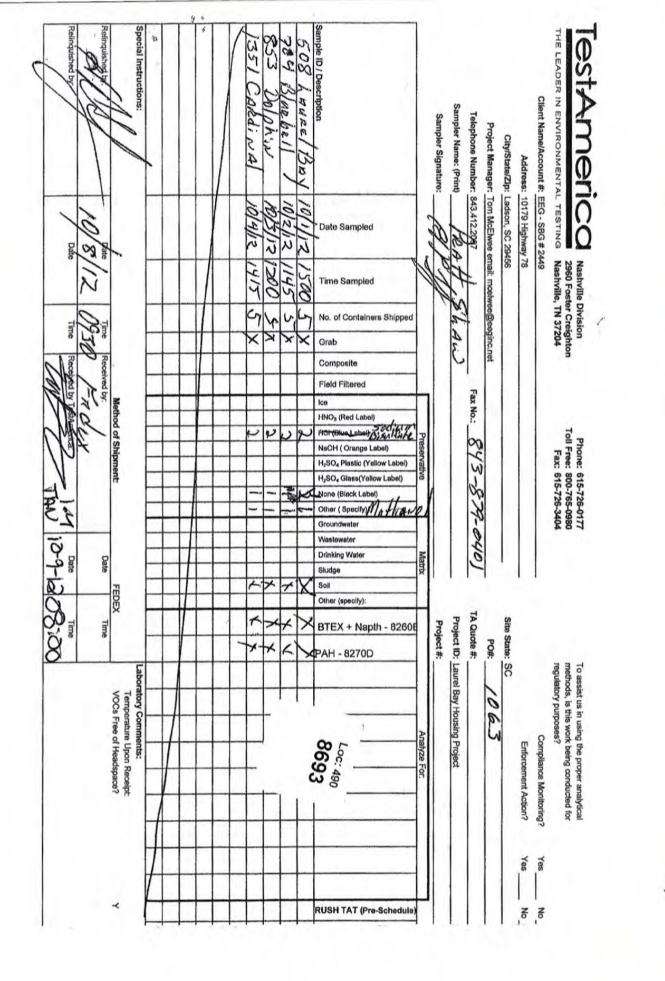
### Laboratory: TestAmerica Nashville

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

Authority	Program	EPA Region	Certification ID	Expiration Date
	ACIL		393	10-30-12
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alabama	State Program	4	41150	05-31-13
Alaska (UST)	State Program	10	UST-087	07-24-13
Arizona	State Program	9	AZ0473	05-05-13
Arkansas DEQ	State Program	6	88-0737	04-25-13
California	NELAC	9	1168CA	10-31-12
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Colorado	State Program	8	N/A	02-28-13
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAC	4	E87358	06-30-13
Illinois	NELAC	5	200010	12-09-12
lowa	State Program	7	131	05-01-14
Kansas	NELAC	7	E-10229	10-31-12
Kentucky	State Program	4	90038	12-31-12
Kentucky (UST)	State Program	4	19	09-15-13
Louisiana	NELAC	6	LA120025	12-31-12
Louisiana	NELAC	6	30613	06-30-13
Maryland	State Program	3	316	03-31-13
Massachusetts	State Program	1	M-TN032	06-30-13
Minnesota	NELAC	5	047-999-345	12-31-12
Mississippi	State Program	4	N/A	06-30-13
Montana (UST)	State Program	8	NA	01-01-15
Nevada	State Program	9	TN00032	07-31-13
New Hampshire	NELAC	1	2963	10-09-13
New Jersey	NELAC	2	TN965	06-30-13
New York	NELAC	2	11342	04-01-13
North Carolina DENR	State Program	4	387	12-31-12
North Dakota	State Program	8	R-146	06-30-13
Ohio VAP	State Program	5	CL0033	01-19-14
Oklahoma	State Program	6	9412	08-31-13
Oregon	NELAC	10	TN200001	04-30-13
Pennsylvania	NELAC	3	68-00585	06-30-13
Rhode Island	State Program	1	LAO00268	12-30-12
South Carolina	State Program	4	84009 (001)	02-28-13
South Carolina	State Program	4	84009 (002)	02-23-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAC	6	T104704077-09-TX	08-31-13
USDA	Federal	0	S-48469	11-02-13
Utah	NELAC	8	TAN	06-30-13
Virginia	NELAC	3	460152	06-14-13
Washington	State Program	10	C789	07-19-13
West Virginia DEP	State Program	3	219	02-28-13
Wisconsin	State Program	5	998020430	08-31-13
Wyoming (UST)	A2LA	8	453.07	12-31-13

TestAmerica		
THE LEADER IN ENVIRONMENTAL TESTING Nashville, TN	COOLER RECEIPT FORM	490-8693 Chain of
Cooler Received/Opened On 10/9/20	012 @ 0800	000002
1. Tracking # 87.57	_(last 4 digits, FedEx)	*
Courier: FEDEX IR Gun	ID <u>97310166</u>	
2. Temperature of rep. sample or temp	p blank when opened: /, C-/Degrees	s Celsius
3. If Item #2 temperature Is 0°C or less	, was the representative sample or temp blank fr	ozen? YESNONA
<ol> <li>Were custody seals on outside of co If yes, how many and where:</li> </ol>	one front & Back	YESNA
5. Were the seals intact, signed, and d	lated correctly?	GES NONA
5. Were custody papers inside cooler?		YES .NO NA
certify that I opened the cooler and ar	nswered questions 1-6 (intial)	
7. Were custody seals on containers:	YES NO and Intact	YESNO.
Were these signed and dated correc	ctly?	YESNO. NA
8. Packing mat'l used? Bubblewrap-	Plastic bag Peanuts Vermiculite Foam Insert	Paper Other None
. Cooling process:	Ice lce-pack Ice (direct contact)	Dry ice Other None
10. Did all containers arrive in good co	ondition (unbroken)?	ES.NONA
11. Were all container labels complete	e (#, date, signed, pres., etc)?	YES. NONA
12. Did all container labels and tags ag	gree with custody papers?	GESNONA
13a. Were VOA vials received?		VER.NONA
b. Was there any observable heads	pace present in any VOA vial?	YES. NO.NA-BO
14. Was there a Trip Blank in this cool	er? YESNO. If multiple cooler	rs, sequence #_NA
certify that I unloaded the cooler and		()
15a. On pres'd bottles, did pH test stri	ps suggest preservation reached the correct pH	level? YES NO. NA
b. Did the bottle labels indicate that	t the correct preservatives were used	YES NO NA
16. Was residual chlorine present?		YES NO. NA
certify that I checked for chlorine and	I pH as per SOP and answered questions 15-16 (i	intial)
7. Were custody papers properly fille		YES.NONA
8. Did you sign the custody papers in	n the appropriate place?	YES NONA
9. Were correct containers used for t	he analysis requested?	ES NONA
20. Was sufficient amount of sample s	sent in each container?	YES.NONA
	LIMS and answered questions 17-20 (intial)	F
certify that I attached a label with the	unique LIMS number to each container (intial)	F
	ues at login? YES. NO Was a PIPE generated?	VES DH

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10/22/2012

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### Client: Environmental Enterprise Group

### Login Number: 8693 List Number: 1

Creator: Ford, Easton

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

Job Number: 490-8693-1

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List Source: TestAmerica Nashville

### ATTACHMENT A



# NON-HAZARDOUS MANIFEST

	1. Generator's US EP	PAID No. M	anifest Doc	No.	2. Page 1	of				
NON-HAZARDOUS MANIFEŠT					1	L İ				
3. Generator's Mailing Address:	Ger	nerator's Site Address (If a	lifferent than m	ailing):	A. Manife	st Number	1			
MCAS, BEAUFORT						'MNA	0031	6834		
LAUREL BAY HOUSING						B. State (			_	
BEAUFORT, SC 29907	1									
4. Generator's Phone 843-22	28-6461									
5. Transporter 1 Company Name		6. US EPA I	D Number							
EEG, INC.						ransporter's			_	
					D. Transp	orter's Phon	e 843-	879-041	1	
7. Transporter 2 Company Name		8. US EPA I	D Number		<b>F C L T</b>	<u> - 1997) - 1997</u> - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997				
						ransporter's				
9. Designated Facility Name and Site	Address	10. US EPA	ID Number		F. Transp	orter's Phon	e			
HICKORY HILL LANDFILL					G. State Facility ID					
2621 LOW COUNTRY ROAD						H. State Facility Phone 843-987-4643				
RIDGELAND, SC 29936			· .		n. state raciility mone 045-507-4043					
G 11. Description of Waste Materials		- Kanif and a standard		ntainers	13. Total	14. Unit	- L.N	Aisc. Comme	nts	
E a. HEATING OIL TANKS FILLED			No.	Туре	Quantity	Wt./Vol.	-+			
N	WITH SAND									
	le # 102655SC									
R WM Protil	ie # 1020333C				<u>, 36-842-850 (87</u>					
			117 J. 1. 15.84						di cart.	
R WM Profile #	· ···									
c.				ļ	1					
WM Profile #					8743 - E				-	
d.					<u> 1997 - 1997 - 1997</u> - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997	in sen i li l	+			
			Sector A.T	1279 J. 1943 - 17		isan dalar iki	i na sana sa	1043	alan territ	
WM Profile # J. Additional Descriptions for Materia	als Listed Above		K Dispos	l al Location						
3. Additional Descriptions for Materia			R. Dispos							
			Cell				Level			
		·····	Grid					t		
15. Special Handling Instructions and	Additional Information	(2)704	BLUR	br 11	- 4) V	351(	MRS	1104	1	
	/ S	1			$(-\tilde{5})$	108 6	lur l	$s \in (1)$		
D 568 LAUR	RILL DA-1	- 2/35-2	Dolf		1631	320	Albr	<u>st KC</u>	<u>55</u>	
Purchase Order #		EMERGENCY CO	NTACT / PHO	ONE NO.:						
16. GENERATOR'S CERTIFICATE:										
I hereby certify that the above-describ			•				nave been fu	illy and		
accurately described, classified and pa Printed Name	ckaged and are in prop	Signature "On beha		rding to app	blicable regu	lations.	Month	Day	Year	
Frinted Name	Reduces		101		n an		Nonth			
17. Transporter 1 Acknowledgement	of Receipt of Materials			61				· · · · · ·		
Printed Name	Autol	Signature	2/15	1//			Month	Day	Year	
TOPP PRATTShow ()			1/0				10	25	12	
18. Transporter 2 Acknowledgement of	of Receipt of Materials	i	- 6						~	
Printed Name		Signature					Month	Day	Year	
STARS AT LANDER A LANDER			1 Ka	1 Acres			1.	1.5	1 19	
19. Certificate of Final Treatment/Disp		<u> </u>	<u>t</u> ' i.A.	<u>at i kai ka</u> nda si	4			1	1.1	
I certify, on behalf of the above listed t		to the best of my knowle	edge, the ab	ove-describ	ed waste w	as managed	in complian	ce with all	1	
applicable laws, regulations, permits a					W	manageu			•	
20. Facility Owner or Operator: Certif			overed by th	is manifest						
Printed Name		Signature					Month	Day	Year	
The start of the start		;			Sec. Sec.		13	5 		
White- TREATMENT, STORAGE, DISPO	SAL FACILITY COPY	Blue- GENERATOR	#2 COPY		Ye	llow- GENER	ATOR #1 CO	PY	•	
Pink- FACILITY USE ON	ILY	Gold- TRANSPORTER	R #1 COPY							

Appendix C Regulatory Correspondence





**Catherine B. Templeton, Director** *Propriating and protecting the health of the public and the environment* 

May 15, 2014

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 above 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,

20m. The

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)



Catherine B. Templeton, Director Promosting and protecting the health of the public and the environment

### Attachment to: Krieg to Drawdy Subject: NFA Dated 5/15/2014

Laurel Bay Underground Storage Tank Assessment Reports for: (143 addresses/146 tanks)

212 Balsam	503 Laurel Bay
219 Balsam	508 Laurel Bay
260 Beech Tank 1	510 Laurel Bay
260 Beech Tank 2	523 Laurel Bay
267 Birch	525 Laurel Bay
287 Birch	529 Laurel Bay
302 Ash	533 Laurel Bay
305 Ash	537 Laurel Bay
334 Ash	556 Dahlia
338 Ash Tank 1	557 Dahlia
338 Ash Tank 2	559 Dahlia
361 Aspen	562 Dahlia
371 Aspen	568 Dahlia
372 Aspen Tank 1	581 Aster
372 Aspen Tank 2	582 Aster
375 Aspen	584 Aster
385 Aspen	602 Dahlia
403 Elderberry	607 Dahlia
407 Elderberry	614 Dahlia
411 Elderberry	616 Dahlia
414 Elderberry	619 Dahlia
415 Elderberry	625 Dahlia
421 Elderberry	629 Dahlia
427 Elderberry	631 Dahlia
428 Elderberry	634 Dahlia
431 Elderberry	660 Camellia
455 Elderberry	661 Camellia
484 Laurel Bay	666 Camellia
490 Laurel Bay	669 Camellia
502 Laurel Bay	672 Camellia

Laurel Bay Underground Storage Tank Assessment Reports for: (143 addresses/146 tanks) cont.

677 Camellia         890 Cobia           679 Camellia         892 Cobia           686 Camellia         900 Barracuda           690 Camellia         906 Barracuda           692 Abelia         911 Barracuda           700 Bluebell         912 Barracuda           704 Bluebell         917 Barracuda           705 Bluebell         918 Barracuda           705 Bluebell         928 Albacore           710 Bluebell         1024 Foxglove           711 Bluebell         1028 Foxglove           714 Bluebell         1029 Foxglove           715 Bluebell         1038 Iris           726 Bluebell         1049 Gardenia           728 Bluebell         1079 Heather           7315 Bluebell         1079 Heather           7318 Bluebell         1079 Heather           7318 Bluebell         1173 Bobwhite           734 Bluebell         1122 Iris           735 Althea         1230 Cardinal           738 Laurel Bay         1221 Cardinal           807 Azalea         1248 Dove           814 Azalea         1242 Dove           814 Azalea         1262 Dove           820 Azalea         1262 Dove           831 Azalea         1262 Dove	674 Camellia	880 Cobia
679 Camellia         892 Cobia           686 Camellia         900 Barracuda           690 Abelia         901 Barracuda           698 Abelia         911 Barracuda           700 Bluebell         912 Barracuda           704 Bluebell         917 Barracuda           705 Bluebell         919 Barracuda           708 Bluebell         919 Barracuda           708 Bluebell         928 Albacore           710 Bluebell         1024 Foxglove           711 Bluebell         1028 Foxglove           714 Bluebell         1028 Foxglove           715 Bluebell         1038 Iris           726 Bluebell         1038 Iris           726 Bluebell         1079 Heather           731 Bluebell         1122 Iris           734 Bluebell         1122 Iris           734 Bluebell         1122 Iris           734 Althea         1136 Iris           734 Althea         1238 Dove           814 Azalea         1242 Dove           815 Azalea         1242 Dove           815 Azalea         1242 Dove           818 Azalea         1262 Dove           821 Azalea         1262 Dove           821 Azalea         1262 Dove           832 Azalea		
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778 Laurel Bay       1221 Cardinal         807 Azalea       1238 Dove         814 Azalea       1241 Dove         815 Azalea       1242 Dove         818 Azalea       1242 Dove         818 Azalea       1242 Dove         820 Azalea       1262 Dove         821 Azalea       1265 Dove         831 Azalea       1267 Dove         832 Azalea       1298 Eagle         834 Azalea       1298 Eagle         835 Azalea       1300 Eagle         841 Azalea       1303 Eagle         853 Dolphin       1304 Eagle         858 Dolphin       1315 Albatross         869 Cobia       1320 Albatross         874 Cobia       1320 Albatross	761 Althea	1173 Bobwhite
807 Azalea       1238 Dove         814 Azalea       1241 Dove         815 Azalea       1242 Dove         818 Azalea       1242 Dove         818 Azalea       1248 Dove         820 Azalea       1262 Dove         821 Azalea       1265 Dove         831 Azalea       1267 Dove         832 Azalea       1267 Dove         834 Azalea       1267 Dove         835 Azalea       1289 Eagle         835 Azalea       1300 Eagle         841 Azalea       1303 Eagle         853 Dolphin       1315 Albatross         869 Cobia       1316 Albatross         874 Cobia       1320 Albatross	773 Althea	1200 Cardinal
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835 Azalea       1300 Eagle         841 Azalea       1303 Eagle         853 Dolphin       1304 Eagle         858 Dolphin       1315 Albatross         869 Cobia       1316 Albatross         874 Cobia       1320 Albatross	834 Azalea	1298 Eagle
841 Azalea       1303 Eagle         853 Dolphin       1304 Eagle         858 Dolphin       1315 Albatross         869 Cobia       1316 Albatross         874 Cobia       1320 Albatross	835 Azalea	
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869 Cobia1316 Albatross874 Cobia1320 Albatross		
874 Cobia 1320 Albatross		
	875 Cobia	1338 Albatross

Laurel Bay Underground Storage Tank Assessment Reports for: (143 addresses/146 tanks) cont.

1340 Albatross	
1342 Albatross	
1344 Cardinal	
1345 Cardinal	
1349 Cardinal	
1355 Cardinal	
1366 Cardinal	
1374 Dove	
1375 Dove	
1415 Albatross	