ASBESTOS ROOF INSPECTION REPORT OF MARSHALL COURT 741-34th STREET NEWPORT NEWS, VIRGINIA MCS JOB #13-031S



Marine Chemist Service, Inc.

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www.MarineChemist.com



Asbestos Roof Inspection Report

of

Marshall Court 741- 34th Street Newport News Virginia

on

April 26, 2013

Prepared for:

Patrick Devereux
Newport News Housing & Redevelopment Authority
P.O. Box 797
Newport News Virginia 23607

By

Rodney Barfield
Virginia Asbestos Inspector License 3303-003506
Marine Chemist Service, Inc
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(757) 873-0933
MCS Job #13-031S

May 6, 2013
Date

Inspector Signature



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SECTION 1

Asbestos Inspection Report

Marshall Court Roof 741-34th Street Newport News Virginia

INTRODUCTION

Background and Purpose

There has been a growing public awareness of the link between the inhalation of asbestos fibers and various diseases such as asbestosis, mesothelioma, lung, and other cancers. As a result, the Asbestos Hazard Emergency Response Act (AHERA 40 CFR Part 763) for schools grades K through 12 was established by EPA.

The necessary components of an AHERA inspection require the accredited inspector to visually inspect and assess the condition of all known or assumed friable asbestos containing building materials (ACBM); to visually inspect non - friable ACBM and touch it to determine friability, and to identify homogeneous areas of friable materials.

EPA's National Emission Standards for Hazardous Air Pollutants (NESHAPS) require thorough inspections for asbestos in structures before the renovation or demolition of those structures.

Virginia law requires that if the initial building permit was issued prior to January 1, 1985, an asbestos inspection must be performed prior to the local authorities issuing a building permit.

In order to comply with NESHAPS, buildings to be renovated or demolished must be thoroughly inspected for asbestos containing building materials. Marine Chemist Service, Inc. follows the AHERA sampling protocol for interior surveys and the Virginia standard for roof surveys.

The purpose of this survey was to provide information for this property concerning the location and type of accessible and/or visible asbestos containing materials prior to renovation.

In compliance with Virginia Regulations, Marine Chemist Service Inc. performed an asbestos survey of Marshall Court Roof located at 741-34th Street Newport News Virginia **20h** 26,



General Information

Marine Chemist Service, Inc. was hired by Patrick Deverenx of Newport News Housing & Redevelopment Authority to conduct an asbestos inspection and bulk sampling for suspect asbestos-containing building materials of the Roof at Marshall Court 741-34th Street for Newport News Housing & Redevelopment Authority located in Newport News, Virginia.

Authorization

Authorization to perform this testing was provided in the form of an email notice to proceed by Patrick Deverenx of Newport News Housing & Redevelopment Authority located in Newport News, Virginia on April 30, 2013. Patrick Deverenx provided access to the roof. The building was occupied at the time of the inspection.

Warrantv

This visual inspection and laboratory report has been prepared in accordance with AHERA and Virginia requirements and current accepted professional practices. A minimum number of bulk asbestos samples were collected to determine the presence or absence of asbestos. This inspection has been performed to provide the client with information concerning the presence of accessible and/or exposed suspect asbestos containing building materials. In compliance with the owner's wishes, destructive testing was not performed. This inspection documents conditions at the time of the inspection only. No other warranties are implied or expressed.

SURVEY METHODS

Inspection Methods

The asbestos survey was performed by Virginia licensed asbestos inspectors. An initial visual walk through inspection was performed to identify suspect asbestos containing materials and homogeneous areas.

Sampling Methods

The Virginia licensed asbestos inspector sampled the identified suspect materials within the homogeneous areas following the visual inspection. Sampling was not performed on any inaccessible materials and did not involve destructive testing of building components. Sample locations were selected randomly but also taken at less visible locations to minimize visible damage.

LABORATORY METHODS

Analysis Methods

The bulk sample was first visually observed and described. The sample was mounted onto a slide, covered with dispersion staining oil and a cover slip, and observed under a polarized light microscope. The asbestos and non-asbestos materials in the sample are identified by this method.

The PLM microscopist estimates the amounts of asbestos and non-asbestos components by determining visually the relative volume of each to the total volume of the sample.



ASBESTOS INSPECTION

Document Review and On-Site Survey

Blueprints were not provided for the inspection; however, a sketch was made of the roof to indicate sample/asbestos material locations.

<u>Identification of Suspect Asbestos Containing Materials</u>

A visual inspection was performed on the suspect asbestos containing material found in the survey areas. The suspect asbestos containing materials are as follows:

Roof membrane Parapet wall flashing Roof drain martial Vent pipe material Roof caulking material Curb flashing material Roof shingle material

Bulk Sampling

Bulk sampling was performed on all suspect asbestos-containing materials found in the areas and the minimum number of samples was taken as required in the AHERA Standards.

Bulk samples were taken penetrating all layers of the material. The samples were at least l cubic centimeter and were placed in a sealed container at the time of collection. All precautions were taken to prevent exposure to those present in or around the facility during the collection of samples. All sampling locations were patched with an encapsulant after the sampling was complete. Three samples were taken for each distinct type of suspect asbestos material.

Samples listed below are grouped into homogeneous areas. Homogeneous areas are areas, which are uniform by color, texture, construction/application date, and general appearance.

Some sample results in the % asbestos column may be displayed in this report with a slash between two numbers, (#/#). The first number represents the first material listed under the material location/description and the second number represents the second material listed.

When N/A is placed in the friable category it means the sample tested negative - (0) or less than one percent - $(\le 1\%)$ for asbestos and the friable description does not apply.

Samples were analyzed utilizing Polarized Light Microscopy (PLM) with dispersion staining by a NVLAP accredited laboratory (Marine Chemist Service, Inc. NVLAP Lab Code 200628-0). The results are as follows:



SECTION 2 Sample Summary Table



Newpoort News Housing & Redevelopment Authority Marshall Court, Building 741-34th Street Newport News, Virginia

Sample	Lab Sample		%	Y/N
Number	Number	Material Location/Description	Asbestos	Friable
1G	0098937-001	upper roof Membrane	0/0	N/A
2G	0098937-002	upper roof Membrane	0/0	N/A
3G	0098937-003	upper roof Membrane	0/0	N/A
4G	0098937-004	upper roof parapet wall flasing material	0	N/A
5G	0098937-005	upper roof parapet wall flasing material	0	N/A
6G	0098937-006	upper roof curb flashing material	5	N
7G	0098937-007	upper roof curb flashing material	0	N/A
8G	0098937-008	upper roof drians material	0	N/A
9G	0098937-009	upper roof drians material	0/0	N/A
10G	0098937-010	upper roof vent pipe materail	0	N/A
11 G	0098937-011	upper roof vent pipe materail	0	N/A
12G	0098937-012	upper roof chimmey wall fashing material	0	N/A
13G	0098937-013	upper roof parapet cap caulking material	0	N/A
14 G	0098937-014	upper roof parapet cap caulking material	0	N/A
15G	0098937-015	Lower roof Membrane	0/0	N/A
16G	0098937-016	Lower roof Membrane	0/0	N/A
17G	0098937-017	Lower roof Membrane	0/0	N/A
18G	0098937-018	Lower roof parapet wall flashing material	5	N
19 G		Lower roof parapet wall flashing material	0	N/A
20G	0098937-020	Lower roof crub flashing material	5	N
21G	0098937-021	Lower roof crub flashing material	0	N/A
22G	0098937-022	Lower roof drain material	2	N
23G	0098937-023	Lower roof drain material	5	N
24G	0098937-024	Lower roof vent pipe material	0	N/A
25G	0098937-025	Lower roof vent pipe material	0	N/A
26G		Lower roof parapet cap caulking material	0	N/A
27G	0098937-027	Lower roof parapet cap caulking material	0	N/A
28G	0098937-028	Mansard roof shingle	0/0	N/A
29G		Mansard roof shingle	0/0	N/A
30G	0098937-030	Mansard roof shingle	0/0	N/A



Comments

- 1. The following materials tested positive for asbestos:
 - Upper roof curb flashing
 - Lower roof parapet wall flashing
 - Lower roof curb flashing
 - Lower roof drains
- 2. The EPA definition of a friable material is one that contains more than 1% asbestos by weight and can be crumbled, pulverized or reduced to a powder by hand pressure when dry, or which under normal use or maintenance emits or can be expected to emit asbestos fibers into the air.
- 3. All quantities are approximate.



Marshall Court 741- 34th Street Newport News, VA

ASBESTOS CONTAINING MATERIALS	QUANTITY
Upper roof curb flashing material	50 Linear Ft.
Lower parapet wall flashing material	1,149 Sq. Ft.
Lower roof curb flashing material	67 Linear Ft.
Lower roof drain material	2 each



SECTION 3 General Legend and Notes



GENERAL LEGEND

O - Sample number/location - non-asbestos

 Δ - Sample number/location - contains asbestos

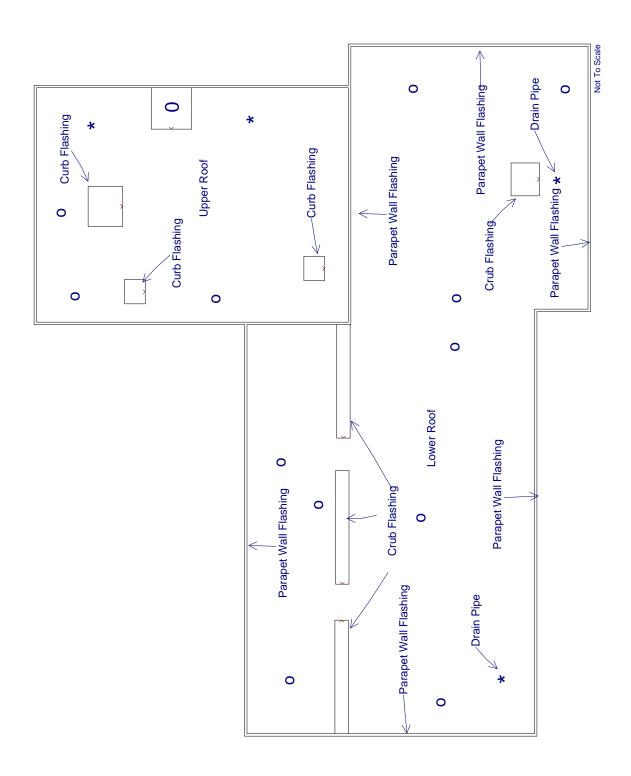
GENERAL NOTES

- 1. The EPA definition of a friable material is one that contains more than 1% asbestos by weight and can be crumbled, pulverized or reduced to a powder by hand pressure when dry, or which under normal use or maintenance emits or can be expected to emit asbestos fibers into the air.
- 2. All quantities are approximate.
- 3. Sketches are not to scale.



SECTION 4 Asbestos Containing Material Sketches



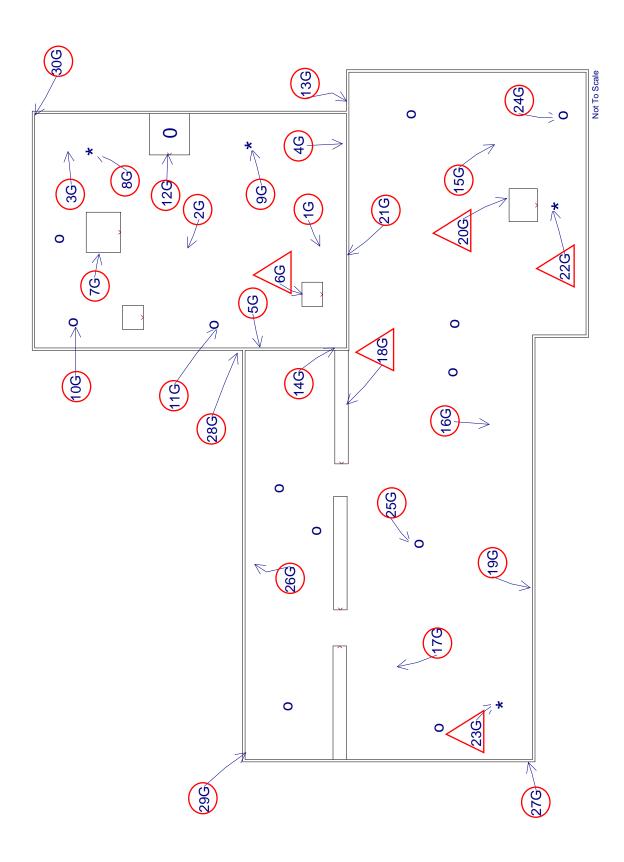


Asbestos Roof Materials 741-35th Street Newport News, Virginia



SECTION 5 Survey Sample Location Sketches





Asbestos Roof Sample Locations 741-35th Street Newport News, Virginia



SECTION 6 Reports of Analysis



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Newport News Housing and Redevelopment Authority

04/26/2013

Rodney Barfield

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Attn: Patrick Devereux

Newport News VA 23607

P.O. Box 797

Date Sampled:

Sampled By:

Job Location:

MCS Report No.:

0098937

Report Date:

05/06/2013

Agency ABS NIST

DOD-

AIHA-LAP, LLC

Program (Scope) (Hull Thickness) NVLAP Bulk Asbestos (PLM)

ELLAP (Lead) (Paint, Soil, Wipe & Air) EMLAP

Air (Direct Examina IHLAP Asbestos (PCM)
Dust (Gravimetry) Metals (Air) Resin

US Navy
ons cover only to the scopes listed above.
AIHA Laboratory No: 100551
NVILAP Lab Code: 200628-0
Virginia Asbestos Lab License No: 3333 000004

MCS Job No.:

13-031S

Customer PO No.:

131860

Credentials

Accreditation

Accreditation

Approval

Date Received:

04/26/2013

Received By:

LJD

Sample Matrix:

BULK

Date Analyzed:

05/03/2013

Method of Analysis:

Polarized Light Microscopy (PLM) using Environmental Protection Agency (EPA) Methods EPA 600/M4-82-020, December 1982 and

EPA 600/R93-116, July 1993.

741 34th Street NN, VA

REPORT OF ANALYSIS

MCS Sample No. Field Sample ID	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
0098937-001	Upper Roof Membrane					
IG	Tar, Black	LAYER I 80%	None Detected		Cellulose Fiber Fibrous Glass Wollastonite Non-Fibrous Material	30% 20% 5% 45%
	Foam, Yellow	LAYER 2 20%	None Detected		Non-Fibrous Material	100%
	Asbestos Present: No	Total % Asbe	estos: No A	sbestos De	tected	
0098937-002 2G	Upper Roof Membrane Tar, Black	LAYER I 80%	None Detected		Cellulose Fiber Fibrous Glass Wollastonite Non-Fibrous Material	30% 20% 5% 45%
	Foam, Yellow	LAYER 2 20%	None Detected		Non-Fibrous Material	100%
	Asbestos Present: No	Total % Asbe	estos: No A	sbestos De	tected	



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AIHA-LAP, LLC

ns cover only to the scopes listed above. AIHA Laboratory No: 100551 NVLAP Lab Code: 200628-0

Virginia Asbestos Lab License No: 3333 000004

Accreditation Accreditation

Accreditation

Approval

Laboratory accreditat

Program (Scope)
(Hull Thickness)

Air (Direct Examin IHLAP Asbestos (PCM) Dust (Gravimetry) Metals (Air)

Bulk Asbestos (PLM)
ELLAP (Lead)
(Paint, Soil, Wipe & Air)
EMLAP

NVLAP

MCS Job No.:

13-031S 131860

Customer PO No.:

04/26/2013

Date Received: Received By:

LJD

Sample Matrix:

BULK

Date Analyzed:

05/03/2013

Method of Analysis:

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EPA 600/R93-116, July 1993.

741 34th Street NN, VA

REPORT OF ANALYSIS

MCS Sample No.	Sample Location	Layer No	. Asbestos		Non-Asbestos	
Field Sample ID	Description	Layer %	Туре	(%)	Components	(%)
0098937-003	Upper Roof Membrane					
3G	Tar, Black	LAYER 1 80%	None Detecte	ed	Cellulose Fiber Fibrous Glass Wollastonite Non-Fibrous Material	30% 20% 5% 45%
	Foam, Yellow	LAYER 2 20%	None Detecte	ed	Non-Fibrous Material	100%
	Asbestos Present: No	Total %	Asbestos: N	No Asbestos De	tected	
0098937-004	Upper Roof Parapet Wall					
4 G	Tar, Black	LAYER 1 100%	None Detecto	ed	Synthetic Fiber Cellulose Fiber Non-Fibrous Material	30% 10% 60%
	Asbestos Present: No	Total %	Asbestos: N	No Asbestos De	tected	
0098937-005	Upper Roof Parapet Wall					
5G	Tar, Black	LAYER 1 100%	None Detecte	ed	Synthetic Fiber Cellulose Fiber	20% 10%
					Non-Fibrous Material	70%
	Asbestos Present: No	Total %	Ashestos: N	No Asbestos De	tected	



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Job Location:

741 34th Street NN, VA

0098937

Credentials

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Report Date:

05/06/2013

Agency ABS NIST

DOD-

AIHA-LAP. LLC

Program (Scope) (Hull Thickness) NVLAP Bulk Asbestos (PLM)

ELLAP (Lead) (Paint, Soil, Wipe & Air) EMLAP

EMI.AP
Air (Direct Examination)
HILAP
Ashestos (PCM)
Dust (Gravimetry)
Metals (Air)
Resin

US Navy
us cover only to the scopes listed above.
AIHA Laboratory No: 100551
NVI.AP Lab Code: 200628-0
Virginia Asbestos Lab License No: 3333 000004

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MCS Sample No. Field Sample ID	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
0098937-006	Upper Roof Curb Flashing					
6G	Black Tar, Gray Aggregate	LAYER I 100%	Chrysotile	5%	Synthetic Fiber Cellulose Fiber Non-Fibrous Material	20% 10% 65%
	Asbestos Present: Yes	Total % Asbe	estos:	5%		
0098937-007	Upper Roof Curb Flashing					
7G	Black Tar, Gray Aggregate	LAYER 1 100%	None Detected		Synthetic Fiber Fibrous Glass	30% 10%
					Non-Fibrous Material	60%
	Asbestos Present: No	Total % Asbe	estos: No A	sbestos De	tected	
0098937-008	Upper Roof Drain					
8G	Tar, Black	LAYER 1	None Detected		Cellulose Fiber	30%
		100%			Fibrous Glass	20% 50%
0098937-008 8G	Upper Roof Drain	LAYER I		spesios De	Cell Fibr	
	Asbestos Present: No	Total % Asbe		sbestos De		



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Agency ABS NIST

US Navy

AIHA-LAP, LLC

Program (Scope) (Hull Thickness) NVLAP Bulk Asbestos (PLM)

ELLAP (Lead) (Paint, Soil, Wipe & Air) EMLAP

Air (Direct Examination)
HLAP
Asbestos (PCM)
Dust (Gravimetry)
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Resin

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741 34th Street NN, VA

REPORT OF ANALYSIS

MCS Sample No. Field Sample ID	Sample Location Description		Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
Field Sample 1D	Description		Layer 70	13pc	(70)	Components	(70)
0098937-009	Upper Roof Drain						
9G	Tar, Black		LAYER I	None Detected		Cellulose Fiber	30%
			80%			Fibrous Glass	10%
						Non-Fibrous Material	60%
	Paper, Brown		LAYER 2	None Detected		Cellulose Fiber	90%
	-		20%			Non-Fibrous Material	10%
	Asbestos Present:	No	Total % Asbe	estos: No A	sbestos De	tected	
0098937-010	Upper Roof Vent Pip	е					
10G	Tar, Black		LAYER 1	None Detected		Cellulose Fiber	30%
			100%			Fibrous Glass	10%
						Non-Fibrous Material	60%
	Asbestos Present:	No	Total % Asbe	estos: No A	sbestos De	tected	
0098937-011	Upper Roof Vent Pip	e					
11 G	Tar, Black		LAYER 1	None Detected		Cellulose Fiber	30%
			100%			Fibrous Glass	10%
						Non-Fibrous Material	60%
	Asbestos Present:	No	Total % Asbe	stos: No A	sbestos De	tected	



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Date Sampled:

04/26/2013

Sampled By:

Rodney Barfield

Job Location:

741 34th Street NN, VA

Credentials Accreditation

Accreditation

Program (Scope) (Hull Thickness) (Hull Thickness)
NVLAP
Bulk Asbestos (PLM)
ELLAP (Lead)
(Paint, Soil, Wipe & Air)
EMLAP AHA-LAP, LLC

EMLAP
Air (Direct Examination)
HILAP
Asbestos (PCM)
Dust (Gravimetry)
Metals (Air)

DOD-US Navv

Agency ABS NIST

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REPORT OF ANALYSIS

MCS Sample No. Field Sample ID	Sample Location Description		Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
0098937-012	Upper Roof Chimne	y Flashing					
12G	Rubbery Material, B	lack	LAYER I 100%	None Detecte	ed	Cellulose Fiber Synthetic Fiber	5% 5%
						Non-Fibrous Material	90%
	Asbestos Present:	No	Total % Asb	estos:	No Asbestos De	tected	
0098937-013	Upper Roof Parapet	Cap Caulking					
13G	Caulking, Black		LAYER I	None Detecte	ed	Wollastonite	10%
			100%			Non-Fibrous Material	90%
	Asbestos Present:	No	Total % Asb	estos: N	No Asbestos De	tected	
0098937-014	Upper Roof Parapet	Cap Caulking					
14G	Caulking, Black		LAYER I	None Detecte	ed	Wollastonite	10%
			100%			Non-Fibrous Material	90%
	Asbestos Present:	No	Total % Asb	estos: N	No Asbestos De	tected	
0098937-015	Lower Roof Membra	ane					
15G	Tar, Black		LAYER I	None Detect	ed	Synthetic Fiber	20%
			90%			Fibrous Glass	10%
						Non-Fibrous Material	70%
	Foam, Brown		LAYER 2	None Detect	ed		
			10%			Non-Fibrous Material	100%
	Asbestos Present:	No	Total % Asb	estos: N	No Asbestos De	tected	

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Attn: Patrick Devereux

P.O. Box 797

Newport News VA 23607

Date Sampled:

04/26/2013

Sampled By:

Rodney Barfield

Job Location:

741 34th Street NN, VA

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Accreditation Accreditation

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DOD-

AIHA-LAP, LLC

Program (Scope) (Hull Thickness) NVLAP Bulk Asbestos (PLM)

ELLAP (Lead) (Paint, Soil, Wipe & Air) EMLAP

Air (Direct Examination)
IHLAP
Asbestos (PCM)
Dust (Gravimetry)

Metals (Air)

US Navy
us cover only to the scopes listed above.
AHMA Laboratory No: 100551
NVLAP Lab Code: 200628-0
Virginia Asbestos Lab License No: 3333 000004

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131860

Date Received:

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Method of Analysis:

Polarized Light Microscopy (PLM) using Environmental Protection Agency (EPA) Methods EPA 600/M4-82-020, December 1982 and

EPA 600/R93-116, July 1993.

REPORT OF ANALYSIS

MCS Sample No.	Sample Location	Layer No.	Asbestos		Non-Asbestos	
Field Sample ID	Description	Layer %	Туре	(%)	Components	(%)
0098937-016	Lower Roof Membrane					
16G	Tar, Black	LAYER I	None Detected		Fibrous Glass	10%
		90%			Synthetic Fiber	10%
					Non-Fibrous Material	80%
	Foam, Brown	LAYER 2	None Detected			
		10%			Non-Fibrous Material	100%
	Asbestos Present: No	Total % Asbe	estos: No A	Asbestos De	tected	
0098937-017	Lower Roof Membrane					
17G	Tar, Black	LAYER 1	None Detected		Fibrous Glass	30%
		90%			Synthetic Fiber	20%
					Non-Fibrous Material	50%
	Insulation, Brown	LAYER 2	None Detected		Fibrous Glass	90%
		10%			Non-Fibrous Material	10%
	Asbestos Present: No	Total % Asbe	estos: No A	Asbestos De	tected	
0098937-018	Lower Roof Parpet Wall					
18G	Tar and Aggregate, Black	LAYER 1	Chrysotile	5%	Synthetic Fiber	20%
		100%			Fibrous Glass	10%
					Non-Fibrous Material	65%
	Ashestos Present: Yes	Total % Asbe	estos:	5%		



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Sampled By:

Rodney Barfield

Job Location:

741 34th Street NN, VA

Agency ABS

AIHA-LAP, LLC

Program (Scope) (Hull Thickness) (Hull Thickness)
NVLAP
Bulk Asbestos (PLM)
ELLAP (Lead)
(Paint, Soil, Wipe & Air)
EMLAP

Air (Direct Examination)
IHLAP Asbestos (PCM)
Dust (Gravimetry)
Metals (Air)

Approval

Credentials

Accreditation Accreditation

Accreditation

DOD-US Navy

ns cover only to the scopes listed above.
AIHA Laboratory No: 100551
NVLAP Lab Code: 200628-0

Virginia Asbestos Lab License No: 3333 000004

Resin

MCS Report No.:

0098937

Report Date:

05/06/2013

MCS Job No.:

13-031S

Customer PO No.:

131860

Date Received:

04/26/2013

Received By:

LJD

Sample Matrix:

BULK

Date Analyzed:

05/03/2013

Method of Analysis:

Polarized Light Microscopy (PLM) using Environmental Protection Agency (EPA) Methods EPA 600/M4-82-020, December 1982 and

EPA 600/R93-116, July 1993.

REPORT OF ANALYSIS

MCS Sample No.	Sample Location		Layer No.	Asbestos		Non-Asbestos	
Field Sample ID	Description		Layer %	Туре	(%)	Components	(%)
0098937-019	Lower Roof Parpet \	Wall					
19G	Tar and Aggregate, I	Black	LAYER I	None Detected		Synthetic Fiber	20%
			100%			Fibrous Glass	10%
						Non-Fibrous Material	70%
	Asbestos Present:	No	Total % Asbe	estos: No	Asbestos De	tected	
0098937-020	Lower Roof Curb Fl	ashing					
20G	Tar, Black		LAYER I	Chrysotile	5%	Synthetic Fiber	30%
	, —		100%			Fibrous Glass	20%
						Non-Fibrous Material	45%
	Asbestos Present:	Yes	Total % Asbe	estos:	5%		
0098937-021	Lower Roof Curb Fl	ashing					
21G	Tar, Black		LAYER 1	None Detected		Fibrous Glass	20%
	,		100%			Synthetic Fiber	20%
						Non-Fibrous Material	60%
	Asbestos Present:	No	Total % Asbe	estos: No	Asbestos De	tected	
0098937-022	Lower Roof Drain						
22G	Tar, Black		LAYER 1	Chrysotile	2%	Cellulose Fiber	30%
			100%			Non-Fibrous Material	68%
	Asbestos Present:	Yes	Total % Asbe	estos:	2%		

Page 7 of 10



11850 TUG BOAT LANE **NEWPORT NEWS, VA 23606-2527**

TEL: (757) 873-0933 · NORFOLK (757) 640-1122 FAX: (757) 873-1074 · NORFOLK (757) 625-5696

Newport News Housing and Redevelopment Authority

04/26/2013

Rodney Barfield

www,MarineChemist.com

Attn: Patrick Devereux

Newport News VA 23607

P.O. Box 797

Date Sampled:

Sampled By:

Job Location:

Credentials Accreditation Accreditation

Approval

0098937

AIHA-LAP, LLC

DOD-

Program (Scope) (Hull Thickness) NVLAP Bulk Asbestos (PLM)

ELLAP (Lead) (Paint, Soil, Wipe & Air) EMLAP

EMI.AP
Air (Direct Examination)
IHLAP
Asbestos (PCM)
Dust (Gravimetry)
Metals (Air)
Resin

US Navy
uss cover only to the scopes listed above.
AIHA Laboratory No: 100551
NVLAP Lab Code: 200628-0
Virginia Asbestos Lab License No: 3333 000004

MCS Report No.: **Report Date:**

05/06/2013

MCS Job No.:

13-031S

Customer PO No.:

131860

Date Received:

04/26/2013

Received By:

LJD

Sample Matrix:

BULK

Date Analyzed:

05/03/2013

Method of Analysis:

Polarized Light Microscopy (PLM) using Environmental Protection Agency (EPA) Methods EPA 600/M4-82-020, December 1982 and

EPA 600/R93-116, July 1993.

741 34th Street NN, VA

MCS Sample No. Field Sample ID	Sample Location Description		Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
0098937-023	Lower Roof Drain						
23G	Tar, Black		LAYER 1 100%	Chrysotile	5%	Cellulose Fiber Non-Fibrous Material	30% 65%
	Asbestos Present:	Yes	Total % Asbe	estos:	5%		
0098937-024 24G	Lower Roof Vent Pi	pe	LAYER 1 100%	None Detected		Cellulose Fiber Synthetic Fiber Non-Fibrous Material	30% 10% 60%
	Asbestos Present:	No	Total % Asbe	estos: No	Asbestos De	tected	
0098937-025	Asbestos Present: Lower Roof Vent Pi		Total % Asbe	estos: No	Asbestos De	tected	
			LAYER 1	None Detected	Asbestos De	Cellulose Fiber Fibrous Glass Synthetic Fiber	30% 20% 10%
	Lower Roof Vent Pi		LAYER I		Asbestos De	Cellulose Fiber Fibrous Glass	20%
	Lower Roof Vent Pi		LAYER I	None Detected	Asbestos De Asbestos De	Cellulose Fiber Fibrous Glass Synthetic Fiber Non-Fibrous Material	20% 10%
25G	Lower Roof Vent Pi Tar, Black	pe No	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Synthetic Fiber Non-Fibrous Material	20% 10%
25G 0098937-026	Lower Roof Vent Pi Tar, Black Asbestos Present:	pe No	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Synthetic Fiber Non-Fibrous Material	20% 10%
0098937-025 25G 0098937-026 26G	Lower Roof Vent Pi Tar, Black Asbestos Present: Lower Roof Parapet	pe No	LAYER 1 100% Total % Asbe	None Detected estos: No		Cellulose Fiber Fibrous Glass Synthetic Fiber Non-Fibrous Material	20% 10%

Page 8 of 10



11850 TUG BOAT LANE NEWPORT NEWS, VA 23606-2527

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www.MarineChemist.com

Attn: Patrick Devereux

Newport News VA 23607

MCS Report No.:

0098937

Credentials
Accreditation

Accreditation

Approval

Program (Scope) (Hull Thickness)

stos (PLM)

ELLAP (Lead) (Paint, Soil, Wipe & Air) EMLAP

Air (Direct Examination)
IHLAP
Asbestos (PCM)
Dust (Gravimetry)
Metals (Air)

NVLAP Bulk Asb

US Navy
ns cover only to the scopes listed above.
AIHA Laboratory No: 100551
NVLAP Lab Code: 200628-0
Virginia Asbestos Lab License No: 3333 000004

Report Date:

05/06/2013

Agency ABS NIST

DOD-US Navy

AIHA-LAP, LLC

MCS Job No.:

13-031S

Customer PO No.:

131860

Date Sampled:

04/26/2013

Sampled By:

P.O. Box 797

Rodney Barfield

Newport News Housing and Redevelopment Authority

Job Location:

741 34th Street NN, VA

Date Received:

04/26/2013

Received By:

LJD

Sample Matrix:

BULK

Date Analyzed:

05/03/2013

Method of Analysis:

Polarized Light Microscopy (PLM) using Environmental Protection Agency (EPA) Methods EPA 600/M4-82-020, December 1982 and

EPA 600/R93-116, July 1993.

REPORT OF ANALYSIS

MCS Sample No.	Sample Location	Layer No.	Asbestos		Non-Asbestos	
Field Sample ID	Description	Layer %	Туре	(%)	Components	(%)
0098937-027	Lower Roof Parapet Cap Caulking					
27G	Caulking, Beige	LAYER I	None Detected			
		100%			Non-Fibrous Material	100%
	Asbestos Present: No	Total % Asbe	estos: No A	sbestos De	tected	44
0098937-028	Mansard Roof Brown Shingle					
28G	Black Tar, Brown Aggregate	LAYER 1	None Detected		Fibrous Glass	20%
		50%			Non-Fibrous Material	80%
	Tar Paper, Black	LAYER 2	None Detected		Cellulose Fiber	80%
	•	50%			Non-Fibrous Material	20%
	Asbestos Present: No	Total % Asbe	estos: No A	sbestos De	tected	
0098937-029	Mansard Roof Brown Shingle					
29G	Black Tar, Brown Aggregate	LAYER I	None Detected		Fibrous Glass	20%
		50%			Non-Fibrous Material	80%
	Tar Paper, Black	LAYER 2	None Detected		Cellulose Fiber	80%
	-	50%			Non-Fibrous Material	20%
	Asbestos Present: No	Total % Asbe	estos: No A	sbestos De	tected	



11850 TUG BOAT LANE NEWPORT NEWS, VA 23606-2527

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Newport News Housing and Redevelopment Authority

04/26/2013

Rodney Barfield

www.MarineChemist.com

Attn: Patrick Devereux

Newport News VA 23607

P.O. Box 797

Date Sampled:

Sampled By:

Job Location:

MCS Report No.:

0098937

Credentials

Accreditatio

Accreditation Accreditation

Approval

Report Date:

05/06/2013

Agency ABS

US Navv

is cover only to the scopes listed above AIHA Laboratory No: 100551 NVLAP Lab Code: 200628-0

Virginia Asbestos Lab License No: 3333 000004

AIHA-LAP, LLC

MCS Job No.:

13-031S

Customer PO No.:

131860

Date Received:

04/26/2013

Received By:

LJD

Sample Matrix:

BULK

Date Analyzed:

05/03/2013

Method of Analysis:

Polarized Light Microscopy (PLM) using Environmental Protection Agency (EPA) Methods EPA 600/M4-82-020, December 1982 and

EPA 600/R93-116, July 1993.

741 34th Street NN, VA

REPORT OF ANALYSIS

MCS Sample No. Field Sample ID	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
0098937-030	Mansard Roof Brown Shingle					
30G	Black Tar, Gray Aggregate	LAYER 1	None Detected		Fibrous Glass	20%
		80%			Non-Fibrous Material	80%
	Tar Paper, Black	LAYER 2	None Detected		Cellulose Fiber	80%
	• • • • • • • • • • • • • • • • • • • •	20%			Non-Fibrous Material	20%

Asbestos Present:

No

Total % Asbestos:

No Asbestos Detected

Analyst - Mary Helen Scott

Approved Signatory -

Dr. Bharati Lakshmi, Ph.D Laboratory Supervisor

Program (Scope) (Hull Thickness)

ELLAP (Lead)
(Paint, Soil, Wipe & Air)
EMLAP
Air (Direct Examination)
IHLAP
Asbestos (PCM)
Dust (Gravimetry)
Metals (Air)

NVLAP Bulk Asbestos (PLM)

Method Detection Limit: = <1%

Fiber concentrations were determined by visually estimating the area percentage for each type.

- Asbestos fibers may not be detected by PLM in certain samples because of their size (<5um) or being bound with non-friable organic matrix. In such cases an alternative method of analysis may be necessary.
 All laboratory test results meet the applicable quality control requirements unless otherwise mentioned.
- MCS. Inc. can not attest to nor be held responsible for the proper collection of samples and/or accuracy of the sample information provided by customers for samples not collected by MCS, Inc.

Test report relates only to the items tested.

* The samples will be stored at the MCS, Inc. laboratory for a period of thirty days after the analysis. At the end of the period, it will be our policy to dispose of the samples unless prior arrangements have been made for a longer storage period.

This report shall not be reproduced, except in full, without the written approval of this laboratory.

The Report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the Federal Government.

The Report includes Chain of Custody

Page 10 of 10

	118:
BULK Ch	

11850 Tug Boat Lane ● Newport News, VA 23606 (757) 873-0933 ● (757) 873-1074 (fax)

www.MarineChemist.com

BULK Chain of Custody Form

(use separate form for each matrix)

Customer:	NNRHA	1 ago oi
Address:		
7		
Contact:	Patrick	Develeux Fax:
Phone:	928-6193	Fax:
Empile	9010 0	LM

34th Street NN VA

Page 1 of 2

Customer PO: 13/860

Building Material Paint Soil Other RESULTS DUE B	O	MCS Use Only Project Manager Special Instructions DO NOT MAIL Give Report To: Cone MCS Lab Report No. Samples Acceptable to Lab If "No" Reason
--	---	--

MCS Job #: 13-2635

Job Location: 741

Field ID	Sample Location	Sample Desc	ription		MCS Sa	mple No.
example	room or area	size / color / n	naterial		-	se only
16	upper oof membro	ne		74 II II I	00089	37-001
26	upper roof member				2989	47-102
36-	Upper ruf member	and			1089	37-103
46	mer roof parapet	- Wall			29C9	37-004
56	upper rout percent			(W989	31-005
66		Mashag			N989	57-00L
76		Plachons	*		v989	37-007
86	upper out draw				NAR	57-1008
96	igher rest dran				igger.	7-009
10 G	upper out Ven	t pm			W489	37-010
116	upper out Ven	t pri			Wasa	37-a1
126	upper rest chimy	very Phehing			W989	37-012
136	Copy Cool perop	et cop rc. Illing			W98	137-013
146		24 cap CSAHAR			Wash	31-014
156	1,44	brane			was	137-DIS
166		boune			0989	37-016
176		base			Wase	B7-07
186	The state of the s	pet wall			N986	37-018
196		pet well			20489	37-019
206	Laur root curs	Alsshing 1	, ,		WIS	137-1231
Kooln	1. 1.1.1.1	11 0 6 111	4/21/13	OFF Maile	ICE USE	ONLY: Billing
Sampled by		pare/ 1/10/10	Date/Time /	Verbal		THE STATE
Koola	un BACTEL FRAN	han K. Sall	4/26/13	Faxed		
Transported 1	by (Print) Signa	ature	Date/Time	Copied		
		Lesly Donneburge	4-26.13 16:05	Emailed		
	NPRIMA PO #131860 Signa		Date/Time	N	1aV 6 20	tial above areas)

		Pac	ge 2 of 2
XX	Marine Chemist Service, Inc. Co	ustomer: NNLHA	
1		Address:	
XX	(757) 873-0933 • (757) 873-1074 (fax)		
	www.MarineChemist.com	Contact: Patrick Dever	eux
		Phone: 928 - 6/95 Fax	
ULK Cha	ain of Custody Form	Email: 1 0315 AM	
ise separate f	form for each matrix) MC	S Job #: 13-0135 Customer PC	13/860
	Job L	ocation: 74/ 34th Stice;	+ NN UA
	Requested Turnaround Time (markup)	MCS Use Only	
Building Mar	terial Same Day (100%)	Project Manager Rodrey	
Paint	1-Day (75%) 2-Day (50%)	Special Instructions	
Soil Other	3-Day (25%)	DO NOT MAIL Give Report To	o: Roduce
	4-Day (12.5%) 5-Day (standard)	MCS Lab Report No.	8937 7
RESI	JLTS DUE BY: 5-3-13	Samples Acceptable to Lab	□No By
	ANALYSIS:	Date If "No" Reaso	
	1		
Field ID		ple Description	MCS Sample No.
example H	- <u> </u>	color / material	1108027-021
22 6	frauer root curs flashing		WC67-037
77	four out drain		W (827-022
24 1-	hour root dooph		100000
2 - 1	four roof Vent pipe		11) OCO 27-075
26 G	17	0.5	11000127-121
25 /-	0.40		100CB21-027
28 6	Taxer last 1 the control of the cont)	119C927-028
29 6			100027-020
2 1	manger t not brown Sharle		110(0)1-02D
30 6	mangald root born Short		WOS FILES
21	8.08) DA 21		FICE USE ONLY:
ampled by (I	Print) Signature Signature	Date/Time / Verbal	ailed Billing Billing
Coline	Bacticle Hook Barke	12 4/26/13 Faxed	
ransported b	(Print) Signature	Date/Time Copied	5/16/13 admin

Danneberg

Signature

Page 29 of 34 Date/Time

LESCIE DANNERKAGER

Received by (Print) A PO #131860

MCS Job #13-031S

Bulk COC1

4-26-13 16:05 Emailed

Copied

Form L100 (2/2007)

May 0, 2013 above areas)



SECTION 7 Inspection Information



Inspection Information

The survey contractor for the inspection of Marshall Court Roof located at 741- 34th Street Newport News Virginia is:

Marine Chemist Service, Inc. 11850 Tug Boat Lane Newport News, Virginia 23606 www.MarineChemist.com

The team leader responsible for quality control coordination of inspection and adherence to inspection protocol is:

Colleen Becker - CIH
Marine Chemist Service, Inc.
11850 Tug Boat Lane
Newport News, Virginia 23606
CBecker@MarineChemist.com

The AIHA and NVLAP Accredited laboratory selected to analyze the bulk samples for asbestos content by PLM, using the "Interim Method for the Determination of Asbestos in Bulk Insulation Samples" (Appendix A to Subpart F in 40 CFR Part 763) is:

Marine Chemist Service, Inc.
Virginia Asbestos Analytical Laboratory License 3333 000004
11850 Tug Boat Lane
Newport News, Virginia 23606
(757) 873-0933

The inspectors who physically inspected the building and who have received EPA-Approved Training are:

Rodney Barfield 3303-003506

Joseph Schroder 3303-002754

The Industrial Hygiene Inspectors are employed by:

Marine Chemist Service, Inc. 11850 Tug Boat Lane Newport News, Virginia 23606 (757) 873-0933



SECTION 8 Credentials





organized to improve the practice of industrial hygiene proclaims that

Colleen Becker

having met all requirements through education, experience and examination, is hereby certified in the

COMPREHENSIVE PRACTICE of INDUSTRIAL HYGIENE

and has the right to use the designations

CERTIFIED INDUSTRIAL HYGIENIST

CIH

Certificate Number: 3708 CP

Awarded:

December 9, 1987

Expiration Date:

June 1, 2015

Chair ABIH

Executive Director ARI





EXPIRES ON

08-31-2013

9960 Mayland Dr., Suite 400, Richmond, VA 23233 Telephone: (804) 367-8500

NUMBER

3303 003506

VIRGINIA ASBESTOS LICENSE INSPECTOR LICENSE

RODNEY LEEVEAT BARFIELD



(SEE REVERSE SIDE FOR NAME AND/OR ADDRESS CHANGE)

DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION **COMMONWEALTH OF VIRGINIA**

EXPIRES ON

04-30-2014

9960 Mayland Dr., Suite 400, Richmond, VA 23233 Telephone: (804) 367-8500

> **VIRGINIA ASBESTOS LICENSE** INSPECTOR LICENSE

JOSEPH MARTIN SCHROEDER

NUMBER

3303 002754



Gordon N. Dixon, Director

DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION **COMMONWEALTH OF VIRGINIA** NUMBER

EXPIRES ON

08-31-2013

9960 Mayland Dr., Suite 400, Richmond, VA 23233

Telephone: (804) 367-8500

VIRGINIA ASBESTOS LICENSE

ASBESTOS ANALYTICAL LABORATORY LICENSE

MARINE CHEMIST SERVICE INC 11850 TUG BOAT LANE

NEWPORT NEWS, VA 23606

Gordon N. Dixon, Directo

3333 000004

PCM PLM

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