

1204 North Road, Groton, Connecticut 06340

www.mysticair.com

magc2@aol.com

800 247-7746

Mr. Stephen M. Savarese City of New London Department of Public Works 111 Union Street New London, CT 06320

RECEIVED CITY OF NEW LONDON PUBLIC WORKS DEPARTMENT

October 14, 2014

Re: Pre-Renovation Asbestos Survey and Lead-in-Paint Screening (9/29/14)

120 Broad Street; New London, CT

### Dear Mr. Savarese:

As requested, Mystic Air Quality Consultants, Inc. conducted a pre-renovation survey of accessible materials at the address above on September 29th, 2014. This survey was conducted by Brian Woodard, a Connecticut State licensed asbestos inspector (license #000741), to determine the presence of asbestos-containing materials. The samples were analyzed by polarized light microscopy at Environmental Hazards Services (NVLAP # 101882-0) in Virginia.

In addition to the asbestos survey, a lead in paint screening of painted surfaces using a calibrated Niton XRF Spectrum Analyzer at the location noted above. The testing involved placing a calibrated X-ray fluorescence analyzer against representative painted surfaces to measure the concentration of lead in the paint at that location. The analyzer measures a square centimeter of surface area. Consequently, in each room one of each component was tested and the results are to be extrapolated to each like component in that room. Should there be more than 1 milligram of lead (0.9 mg/cm<sup>2</sup> to allow for equipment variation) detected in that location, the surface is considered by State law to be lead painted. Lead-painted surfaces are considered toxic to children under the age of six and to women who are pregnant.

Upon testing by polarized light microscopy, the following materials were found to be asbestos containing:

Sample #s	Material/Location Est	imated Affected Area
1-2	Glue Only/Roofs #1, 2, 5 –rubber membrane	12,853 sq. ft.
7-8	Hard Black Flashing Mastic/Roofs #1-5 -around penetrations Edge of roofs and on sidewalls	>100 sq. ft.
15	Built-Up Roofing/Roof #2 -edge of roof at bottom of siding to roo	of #1 80 sq. ft.
16-17	Built-Up Roofing/Roof #2 under insulation	6,648 sq. ft.

### **Special Considerations**

Any of the non-asbestos roofing materials with flashing attached will need to be treated as asbestos-contaminated and be cut out with the flashing when it is abated

\*\*Inspector noted: Did not sample Roof #7 at client's request. The roofing company didn't have patch material for that type of membrane.



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### Non-asbestos containing materials

The roster of suspect materials (Enclosure 3), lists the materials tested. Those that are not already referred to as asbestos containing or assumed asbestos, can be categorized as non-asbestos containing materials.

### Implications of the findings

As required by state and federal regulations prior to renovation or demolition, any asbestoscontaining materials listed above that could be disturbed by a renovation, will need to be removed by a licensed asbestos abatement contractor employing trained and certified personnel who follow all pertinent asbestos abatement regulations.

### Limitations of the Asbestos survey

This survey and report only deal with accessible areas of the building. Additionally, there may be other non-accessible materials above ceilings, behind walls, and below floors that become evident during your renovation activity. Should the requisite EPA/OSHA competent person working for the contractor discover such materials they will need to be tested for asbestos content so determinations of their abatement and disposal (if required) can be made.

### Summary of Lead-In-Paint Screening-

The results of the testing have determined the following lead painted surface was found to be <u>above</u> the State of Connecticut toxic level of lead in paint:

Location	Surface Tested	Reading
Exterior Facia	Wood Caps	23.8

### OSHA and lead in construction

In addition there are requirements concerning employee exposure to lead in the workplace that apply to this property (OSHA lead standard 1926.62). Essentially these are federal OSHA standards that contractors you might hire to do renovations, repairs, remodeling/demolition are required to follow.

Regardless of the test results, please note that OSHA does not consider lead-in-construction pretesting of paint in place as indicative of exposure potential because certain types of work procedures can actually release harmful levels of lead by separating it from the paint and making it airborne as dust. Activities such as dry scraping, sanding or abrading painted surfaces are typical workplace procedures that can create this situation.

Sincerely,

Christopher J. Eident CIH, CSP, RS

**CEO** 

Enclosure 1- Asbestos Lab Results

Enclosure 3- Roster of Suspect Materials

Enclosure 5- XRF Screening Explanation

Enclosure 7- Daily Job Log

Enclosure 2- Chain of Custody

Enclosure 4- Diagram with Sample Locations

Enclosure 6- Inspector's Lead Screening Results



Environmental Hazards Services, L.L.C. 7469 Whitepine Rd Richmond, VA 23237

Telephone: 800.347.4010

Asbestos Bulk **Analysis Report** 

**Report Number: 14-10-00116** 

Received Date:

10/01/2014

Analyzed Date: 10/03/2014

Reported Date: 10/06/2014

Client:

07-2564

Mystic Air Quality Consultants

1204 North Road Rt. 117

Groton, CT 06340

Project/Test Address: 120 Broad ST; New London, CT

**Client Number:** 

**Laboratory Results** 

Fax Number: 860-449-8860

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
14-10-00116-001	1		Beige Adhesive; Homogeneous	NAD	20% Cellulose 80% Non-Fibrous
14-10-00116-002	2		Beige/Black Adhesive; Inhomogeneous	2% Chrysotile	8% Cellulose 90% Non-Fibrous
			Total Asbestos:	2%	
Could not cleanly		s. Chrysotile pre			
14-10-00116-003	3		Black Tar-Like; Black/Brown Fibrous; Inhomogeneous	NAD	60% Cellulose 10% Fibrous Glass 10% Synthetic 20% Non-Fibrous
14-10-00116-004					
14-10-00110-004	4		Black Tar-Like; Black/Brown Fibrous; Inhomogeneous	NAD	60% Cellulose 10% Fibrous Glass 10% Synthetic

**Client Number:** 

07-2564

Report Number:

14-10-00116

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description As	sbestos	Other Materials
14-10-00116-005	5		Gray Granular; Black Fibrous; Inhomogeneous	NAD	15% Cellulose 2% Fibrous Glass 2% Synthetic 81% Non-Fibrous
14-10-00116-006	6		Gray Granular; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous
14-10-00116-007	7		Black Tar-Like; Fibrous; Homogeneous	10% Chrysotile	15% Cellulose 75% Non-Fibrous
			Total Asbestos:	10%	
14-10-00116-008	8			Did Not Analyze (Pos	itive Stop)
14-10-00116-009	9		Black Tar-Like; Homogeneous	NAD	100% Non-Fibrous
14-10-00116-010	10		Black Tar-Like; Homogeneous	NAD	100% Non-Fibrous
14-10-00116-011	11		Gray Pliable; Homogeneous	NAD	100% Non-Fibrous
14-10-00116-012	12		Gray Pliable; Homogeneous	NAD	100% Non-Fibrous

**Client Number:** 

07-2564

Report Number:

14-10-00116

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description A	sbestos	Other Materials
14-10-00116-013	13		Black Tar-Like; Fibrous; Inhomogeneous	NAD	45% Cellulose 5% Synthetic 50% Non-Fibrous
14-10-00116-014	14		Black Tar-Like; Fibrous; Inhomogeneous	NAD	45% Cellulose 5% Synthetic 50% Non-Fibrous
14-10-00116-015	15		Black Tar-Like; Fibrous; Inhomogeneous	10% Chrysotile	40% Cellulose 10% Synthetic 40% Non-Fibrous
			Total Asbestos:	10%	
Chrysotile presen	t in black fibrous m	aterial.			
14-10-00116-016	16		Black Tar-Like; Fibrous; Inhomogeneous	10% Chrysotile	50% Cellulose 5% Fibrous Glass 10% Synthetic 25% Non-Fibrous
	A PLANTE		Total Asbestos:	10%	
Chrysotile presen	t in black fibrous m	aterial.			
14-10-00116-017	17			Did Not Analyze (Pos	itive Stop)
14-10-00116-018	18		Black Tar-Like; Fibrous; Black/Gray Aggregate; Inhomogeneous	NAD	40% Cellulose 10% Synthetic 50% Non-Fibrous

**Client Number:** 

07-2564

**Report Number:** 

14-10-00116

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
14-10-00116-020	20		Black Tar-Like; Fibrous; Homogeneous	NAD	20% Cellulose 50% Fibrous Glass 30% Non-Fibrous
14-10-00116-021	21		Black Tar-Like; Fibrous; Homogeneous	NAD	20% Cellulose 50% Fibrous Glass 30% Non-Fibrous
14-10-00116-022	22		Black Tar-Like; Fibrous; Homogeneous	NAD	80% Cellulose 10% Synthetic 10% Non-Fibrous
14-10-00116-023	23		Black Tar-Like; Fibrous; Homogeneous	NAD	80% Cellulose 10% Synthetic 10% Non-Fibrous
14-10-00116-024	24		Black Tar-Like; Fibrous; Gray Aggregate; Inhomogeneous	NAD	2% Cellulose 28% Fibrous Glass 70% Non-Fibrous
14-10-00116-025	25		Black Tar-Like; Fibrous; Gray Aggregate; Inhomogeneous	NAD	2% Cellulose 28% Fibrous Glass 70% Non-Fibrous
14-10-00116-026	26		Black Tar-Like; Fibrous; Homogeneous	NAD	80% Cellulose 10% Synthetic 10% Non-Fibrous

**Client Number:** 

07-2564

Report Number:

14-10-00116

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
14-10-00116-027	27		Black Tar-Like; Fibrous; Homogeneous	NAD	80% Cellulose 10% Synthetic 10% Non-Fibrous
14-10-00116-028	28		Black Tar-Like; Fibrous; Homogeneous	NAD	30% Cellulose 10% Fibrous Glass 20% Synthetic 40% Non-Fibrous
14-10-00116-029	29		Black Tar-Like; Fibrous; Homogeneous	NAD	30% Cellulose 10% Fibrous Glass 20% Synthetic 40% Non-Fibrous
14-10-00116-030	30		Black Tar-Like; Brown/Yellow Fibrous; Inhomogeneous	NAD	50% Cellulose 20% Fibrous Glass 5% Synthetic 25% Non-Fibrous
14-10-00116-031	32		Black Tar-Like; Fibrous; White Brittle; Inhomogeneous	NAD	20% Cellulose 20% Fibrous Glass 5% Synthetic 55% Non-Fibrous
14-10-00116-032	33		Black Tar-Like; Fibrous; Inhomogeneous	NAD	25% Cellulose 5% Fibrous Glass 70% Non-Fibrous
14-10-00116-033	34		Gray/White Granular; Beige Brittle; Inhomogeneous	NAD	2% Cellulose 3% Hair 95% Non-Fibrous

**Client Number:** 

07-2564

Report Number:

14-10-00116

Project/Test Address: 120 Broad ST; New London, CT

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
14-10-00116-034	35		Gray/White Granular; Beige Brittle; Inhomogeneous	NAD	2% Cellulose 3% Hair 95% Non-Fibrous

QC Sample:

71-M12013-2

QC Blank:

SRM 1866 Fiberglass

Reporting Limit: 1% Asbestos

Method:

EPA Method 600/R-93/116, EPA Method 600/M4-82-020

Analyst:

**Timothy Harris** 

Reviewed By Authorized Signatory:

Tasha Eaddy QA/QC Clerk

Jasha Eaddy

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Each distinct component in an inhomogeneous sample was analyzed separately and reported as a composite. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714 NVLAP #101882-0. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), (for enhanced detection capabilities) for materials regulated by EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

400 Point Count Analysis, where noted, performed per EPA Method 600/R-93/116 with a Reporting Limit of 0.25%.

\* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

LEGEND:

NAD = no asbestos detected



36 PLM

# Chain-of-Custody Asbestos

14-10-00116 10/06/2014 (Monday) Due Date:

City/statc/zip: Groton, Ct. 06340

Mystic Air Client: CTY OF Day Laren cct. Number: 07-2564 All landon, C

City/Slate(required)\_\_ E-mail: maqc2@aol.com

Signature Divon Wodan (will call ahead) Turn around time: Standard Collected by. 15C i An I JODY

CompanyName: Mystic Air Quality Consultants Address: 1204 North Rd., Groton, CT 06340

7469 Whitepine Rd Richmond, VA 23237

(800)347-4010 (804)275-4907 (fax)

Environmental Hazards Services, LLC

One day

Project Name and Address: Phone: 860 449 8903

Comments BUIES Sample Location See Roster ementitlys Rex Detri Builtys Roofing Description glue on 14 Other Analysis Specify PLM Date Collected 41/60/6 Client's Sample 2-6 3-4 4 No

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Signature: Signature:

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7469 Whitepine Rd Richmond, VA 23237 (800)347-4010 (804)275-4907 (fax)

Asbestos Chain-of-Custody

- For Lab Use Only -

City/statc/zip: Groton, Ct. 06340

Mystic Air Client: Litt of new Landan City/Slate(required) DEW Landon

E-mail: maqc2@aol.com Signature Bur lugale JO Bras Fax: 860 449 8903 Collected by 16/190 1000 Project Name and Address: Phone: 860 449 8903 Turn around time:

CompanyName: Mystic Air Quality Consultants Address: 1204 North Rd., Groton, CT 06340

(will call ahead) One day Standard

Comments BUTES Sample Location See Posse PHSTEC-CLIMBS ROSTIN FEHLTBR FLAShing MASAIS Hashing mastic Material Description FEK DAPPER Other Analysis Specify PLM Analysis Date Collected Client's Sample 30 -37-2 33-X Š

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Signature: Signature:

date: 9 129 date: 70///4

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# Mysics in Quality Constituents, Inc. 1 113 North Bond, Grotor, Councelle in Oak 10

# SUSPECT ASBESTOS CONTAINING MATERIALS ROSTER

	- New London, CT			DATE: <u>9/19/14</u>
Sample Numbers	Type of Material	Quantity	Condition (Damage)	Location of Materials
1-2	glue any	12,853f13		Roofs#1,#2,##5, under ruber mamber
3-4	Built up Roofing	1329 FT2		RiofS#1
5-6	Cementitions por Dati	ng 1329 FT	, line A	Rox5*1
-10	Flashing MASTIC	>100 FT 1	HARD FBIACK BIACK	Roofs #1, #2,#3,#4,\$5 Arand penetrations  Edge of Roofs,\$ & a sidewalls  Roofs #1, #2, \$ #5- an seems and edge  of thembiane Roofs
1-12	Caulking	>1000 LAFH	*Rithery	of thembiane Roofs  Roof #1
3-14	Felt PAPER/TAR	125 418+		
-	Builtup Roofing	80 fg2	R	Roof #1- Edge of Roof behinn copper flocking the
e-1+ -19	Built up Roofing	6,648 FT		Roof # 2 - under Insulation
-91	SHingles (Asphalt) Poof Felt	1518 FT		200f#3
-33	11 11	1518 F12 >4200 FT		- under Asphalt shingles
-25	Asphalt Shingles	3340 FT	K	200F#4-under state shingles
nd7	ROOF Felt	3340 FT		" - under shingler
29 B	wilt up Rooting	4,876 FT	Ri	OF #5-TOP LAYER under WHAT MAN
	Roofing Roofing Felt/TAR	4.876 FT	1.	of #5- TOP LAYER was rubbernembrane.
MENTS:	FLAShing MASHI	4.876 FS	Tubber 13	11- bottom LAYER on DECKING

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Inspector: Brian Rilliand	The second of th
Inspector: Brum R. Woodard	Page
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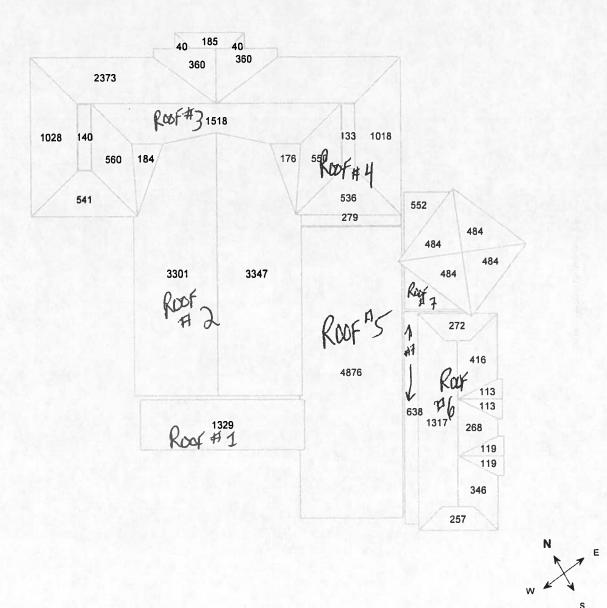
# SUSPECT ASBESTOS CONTAINING MATERIALS ROSTER

Sample Numbers	Type of Material	Quantity	Condition	DemoPre-Reno_X Limited&Directed
39	Felt paper	GO FT	0101	Location of Materials
33	Flashing mastic	25 Fg 3		Constitution of vents/penetrations
34-36	Felt paper Flashing mastic Plaster-Ceilings	< locoff	1	Roof 6-Arand vents/penetrations Roof 6-Arand vents/penetrations STAIRWELL Ceilings From huttom Leve
				MAIRWEIT Ceiling S From hottom Leve
-				
MENTS:				
	Brian R. Wood			

Mission to Marting of an Aller decording of the South for Star Wist

### **Area Diagram**

Total Area = 29,344 sq ft, with 38 facets.



<u>Note</u>: This diagram shows the square feet of each roof facet (rounded to the nearest foot). The total area in square feet, at the top of this page, is based on the non-rounded values of each roof facet (rounded to the nearest square foot after being totaled).



Report: 9190849

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1204 North Road (Rt. 117) Groton, Connecticut 06340

### Information on Lead Testing

**Lead-Based Paint Survey** 

Testing Equipment: Niton XL 309-U311285

For the lead based paint survey, measurements were taken with a calibrated XRF (X-ray Fluorescence) Spectrum Analyzer, using the State of Connecticut testing protocol for spectrum analyzers. Measurements were taken in each area of at least one accessible painted wall, ceiling, window, door, baseboard, and any other painted surface (except factory painted metal surfaces in good condition).

Locations of these areas is indicated alphabetically, with (A) being the street side of the building and/or room, and (B), (C) and (D) respectively following in a clockwise direction.

If the accompanying report sheets have more than one measurement listed per substrate, the last measurement is the definitive one for that surface.

Measurements at or above 0.9 mg/cm2 are considered to be lead paint.

Communications (24 hours):

Office: (860) 449-8903

website: www.mysticair.com

FAX: (860) 449-8860

e-mail:magc2@aol.com

Toll Free: 1 (800) 247-7746

Enclosure 5 Page | Of 2



1204 North Road (Rt. 117) Groton, Connecticut 06340

# **Limitations and Uses of Inspection Data**

This inspection for lead base painted surfaces is a "representative areas" survey as indicated on page 1 of this enclosure.

# Limitations of this report

This report does not make any claims about the surfaces in the structure that are of the same type of material, but which were not themselves tested.

As a specific example of this limitation, if only one window in a room were tested, its results can not be presumed to be applicable to other windows in that (or any other) room. If any assumptions are to be made from the results of this report, they would have to be made in favor of treating an area as if it were lead-base painted (in a "universal precaution" approach).

# Use of this report

or

This report can not be used as a lead abatement or management plan.

The data in this report could only become part of a lead abatement or management plan if it were to be augmented by

- (a) assumptions that all non-tested areas were lead based
- (b) with additional testing to determine each specific area as it will be addressed in the lead abatement or management plan.

# Next step for lead based paint

Subsequent steps to this "representative areas" inspection include creation of a written lead abatement plan, or a lead management plan, in cases where lead based paint was detected and the authority initiating the inspection considers the presence of lead based paint cause for instituting an abatement and/or management activity.

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Enclosure 5 Page 2 Of 2



1204 North Road (Rt. 117) Groton, Connecticut 06340

**Client:** 

City of New Landon

**Site Address:** 

120 Brand ST new London, CT. Date:

9/29/14

XRF screening

ROOM	SURFACE TESTED	Reading mg/cm2	Lead yes/no	Paint Condition
Exterior	FACIA-WOOD CAPS	93.8	9es	D

Communications (24 hours):

Office: (860) 449-8903

website: www.mysticair.com

Inspector:

FAX: (860) 449-8860

e-mail:maqc2@aol.com

Telas

Toll Free: 1 (800) 247-7746



1204 North Road (Rt. 117) Groton, CT 06340

Date 4	client City of New Lorbn Site Supervisor Stewn Squarese of Site Location 120 Broad St-new Lordn, CT	GENERAL OBSERVATIONS  CONTAINMENT LOCATION  CONTAINMENT LOCATION	YRF Screening Done on Exterior FACIA ward CAPS  Youthered Roofs on Roof Diragam, Did not Sample Roof# = a+ clients	179 OF Membrane		
DATT.Y TOB LOG	Client C	GENERAL OB  COLLEC  SAMPLE	- XRF Sc.	1790		

HYGIENIST'S SIGNATURE TIME OFF SITE: TIME ON SITE: HYGIENIST'S,

860 449 8903 Telecommunications Weekends: Nights & Office:

860 464 2050