



Mystic Air Quality Consultants, Inc.

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

August 30, 2011

Mr. Jim Troeger, Director of Planning & Development
City of Norwich
23 Union Street
Norwich, CT 06360

Re: **Pre-Demolition Asbestos Survey and Lead-in-Paint Screening (8/22/11)**
201 Main Street
Norwich, CT

Dear Mr. Troeger:

As requested, Mystic Air Quality Consultants, Inc. conducted a pre-demolition survey of accessible materials at the address above on **August 22, 2011**. This survey was conducted by Christopher Muller, a Connecticut State licensed asbestos inspector (license #000215), 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^2 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:

<u>Sample #s</u>	<u>Material/Location</u>	<u>Estimated Affected Area</u>
1-3	Plaster Over Hang/ Exterior- front: entry	50 sq. ft.
7-9	Window Glazing/Low rise- front	All
10-12	Window Caulking/High rise- front	All
13-15	Window Caulking/Low rise- front	All
40-42	Black Floor Tile/Basement- top layer {patterned}	100 sq. ft.
43-49	Red Floor Tile/Basement- top layer {patterned}	7,000 sq. ft.
50-56	Red Floor Tile/Basement- bottom layer	7,100 sq. ft.

Communications (24 hours).

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

<u>Sample #s</u>	<u>Material/Location</u>	<u>Estimated Affected Area</u>
69-71	Red Stair Tread/Basement, 1 st , 2 nd & 3 rd Floor	1,000 sq. ft.
79-81	Black Floor Tile/3 rd Floor- border of Show Room	100 sq. ft.
94-96	Caulking/Front picture windows	100 linear ft.
103-105	Flashing/Main roof @ parapet & penetrations	20 sq. ft.
106-108	Seam Sealer/Main Roof @ Gray Tiles	25 sq. ft.
109	Pipe TSI/Pipes @ Boiler Room	50 linear ft.
111-113	Flashing/2 nd Floor Roof	15 sq. ft.
117-119	Fake Brick Siding/2 nd Floor Roof- exterior siding	1,500 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.

Non-asbestos containing materials

The roster of suspect materials (Enclosure 2), 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 demolition, all the asbestos-containing materials 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

Though every effort was made to examine wall cavities and other areas for pipe insulation and other PACM, 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 demolition 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.

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Summary of Lead-In-Paint Screening

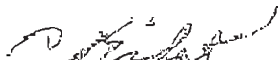
The results of the testing have determined that there were various interior and exterior areas considered to be lead painted. See Enclosure (6) for the lead screening results.

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 pre-testing 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 & Chain of Custody
- Enclosure 2- Roster of Suspect Materials
- Enclosure 3- Inspector's Diagram of Property
- Enclosure 4- XRF Lead-in-Paint Screening Explanation & Abbreviation Key
- Enclosure 5- Summary of Lead Painted Surfaces
- Enclosure 6- Inspectors Lead Screening Results

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