SURVEY FOR ASBESTOS-CONTAINING MATERIALS AT
34 LAWN AVENUE
WESLEYAN UNIVERSITY
MIDDLETOWN, CONNECTICUT

Prepared for:
WESLEYAN UNIVERSITY
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1.0 EXECUTIVE SUMMARY

Wesleyan University Environmental Health, Safety & Sustainability Department conduct an asbestos survey of 34 Lawn Avenue at Wesleyan University in Middletown, Connecticut. The survey was performed on October 30, 2008 and consisted of a visual inspection for suspect asbestos-containing materials. Exploratory demolition was not performed as part of this survey. Bulk samples of suspect asbestos-containing materials were collected in random sampling locations. The visual inspection, bulk sampling and survey documentation was conducted by Mr. Ricky Howard. Mr. Howard is a Connecticut licensed Asbestos Inspector, #000208.

The purpose of the survey was to identify, quantify, and assess accessible friable and non-friable asbestos-containing materials prior to demolition. This report includes the results of the survey and recommendations regarding identified asbestos-containing materials (ACMs).

2.0 BUILDING DESCRIPTIONS AND AREAS SURVEYED

The building is a two-story structure. The building is wood construction. The foundation is concrete on slab. Finishes include: plaster and sheetrock walls, wood floors, floor tiles, wood doors and windows.

3.0 ASBESTOS CONTAINING MATERIALS SURVEY

3.1 ASBESTOS BULK SAMPLE COLLECTION/ANALYSIS PROCEDURE

Accessible building materials were inspected and assessed using the methods presented in the federal AHERA regulations (40 CFR, Part 763) as a guideline. Exploratory demolition was not performed as part of this survey to access hidden materials such as insulation in walls, pipe chases, etc.

Wesleyan University collected samples utilizing the sampling strategy correlated with 40 CFR 763.86 as follows:

(a) **Surfacing materials.** An accredited inspector shall collect, in a statistically random manner that is representative of the homogeneous area, bulk samples from each homogeneous area of friable surfacing materials that is not assumed to be ACM, and shall collect the samples as follows:

(1) At least three bulk samples shall be collected from each homogeneous area that is 1,000 ft² or less, except as provided in 40 CFR Part 763.87(c)(2).

(2) At least five bulk samples shall be collected from each homogeneous area that is greater than 1,000 ft² but less than or equal to 5,000 ft², except as provided in 40 CFR Part 763.87(c)(2).
(3) At least seven bulk samples shall be collected from each homogeneous area that is greater than 5,000 ft², except as provided in 40 CFR Part 763.87(c)(2).

(b) Thermal systems insulation.

(1) Except as provided in paragraphs (b)(2) through (4) of this section and 40 CFR Part 763.87(c), an accredited inspector shall collect, in a randomly distributed manner, at least three bulk samples from each homogeneous area of thermal systems insulation that is not assumed to be ACM.

(2) Collect at least one bulk sample from each homogeneous area of patched thermal systems insulation that is not assumed to be ACM if the patched section is less than 6 linear or square feet.

(3) In a manner sufficient to determine whether the material is ACM or not ACM, collect bulk samples from each insulated mechanical system that is not assumed to be ACM where cement or plaster is used on fittings such as tees, elbows, or valves, except as provided under 40 CFR Part 763.87(c)(2).

(4) Bulk samples are not required to be collected from any homogeneous area where the accredited inspector has determined that the thermal system insulation is fiberglass, foam glass, rubber, or other non-ACM.

(c) Miscellaneous materials. In a manner sufficient to determine whether material is ACM or not ACM, an accredited inspector shall collect bulk samples from each homogeneous area of friable miscellaneous material that is not assumed to be ACM.

All bulk samples collected during the survey were analyzed by Scientific Laboratories, Inc. of New York, NY. All samples collected were analyzed by Polarized Light Microscopy (PLM) with dispersion staining using the EPA method as defined in Perkins, R.L. and B.W. Harvey "Method for the Determination of Asbestos in Bulk Materials," July 1993, pp. 61 (EPA/600/R-93/116). Utilizing PLM, the microscopist is able to identify and distinguish between asbestos group minerals and other fibrous materials such as cellulose, mineral wool, fiberglass or synthetic fibers. The quantities of each of these substances is estimated based on the procedures defined in the above-cited reference and are reported as a percentage.

The EPA recognizes the following as asbestos: Chrysotile, Crocidolite, Amosite, Tremolite, Actinolite and Anthophyllite. To classify as ACM, the material must be determined to contain greater than one percent (1%) asbestos. In order to consider a material non-asbestos-containing, all samples of a homogeneous type of material that are collected must be analyzed and all results indicate less than 1% asbestos.
3.2 ASBESTOS SURVEY RESULTS

The following section includes identified asbestos-containing materials (Section 4.1), non-asbestos containing materials (Section 4.2) and suspect materials sampled (Section 4.3).

3.3 ASBESTOS-CONTAINING MATERIALS

The ACM's identified during the survey, their location, condition, and estimated quantity are described in Table I.

<table>
<thead>
<tr>
<th>Location</th>
<th>Material</th>
<th>Condition</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attic</td>
<td>Paper under Mineral Wool Pipe Insulation</td>
<td>No Damage</td>
<td>50 LF</td>
</tr>
<tr>
<td>Roof</td>
<td>Chimney Flashing</td>
<td>No Damage</td>
<td>4 SF</td>
</tr>
</tbody>
</table>

3.4 NON-ASBESTOS CONTAINING MATERIALS

Suspect materials sampled during the survey that were determined to not contain asbestos in regulated amounts\(^1\) are described in Table II.

<table>
<thead>
<tr>
<th>Material</th>
<th>Non-Asbestos Containing Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flue Cement</td>
<td>4” White Covebase &amp; Mastic</td>
</tr>
<tr>
<td>Joint Compound</td>
<td>1x1 White w/Gray Floor Tile &amp; Mastic</td>
</tr>
<tr>
<td>White Sink Undercoat</td>
<td>Stair Treads (Brown)</td>
</tr>
<tr>
<td>White Linoleum Flooring &amp; Mastic</td>
<td>Gray Floor Tile &amp; Mastic under Plywood</td>
</tr>
<tr>
<td>Misc. Flooring &amp; Mastic under Plywood</td>
<td>Blown-in Insulation</td>
</tr>
<tr>
<td>Mineral Wool On Pipes</td>
<td>Sheetrock</td>
</tr>
<tr>
<td>Joint Compound</td>
<td>Plaster (Brown)</td>
</tr>
<tr>
<td>Skim Coat Plaster (White)</td>
<td>2x4 SCT</td>
</tr>
<tr>
<td>Roof Field</td>
<td>Roof Flashing</td>
</tr>
<tr>
<td>Roof Patch</td>
<td>Window Glazing</td>
</tr>
</tbody>
</table>

\(^{1}\) Amounts less than one-percent asbestos by weight.
3.5 SAMPLED SUSPECT MATERIALS AND LABORATORY RESULTS

Suspect materials sampled during this survey and their corresponding analytical results are described in Table III.

<table>
<thead>
<tr>
<th>Sample #</th>
<th>Sample Location</th>
<th>Material Description</th>
<th>Analytical Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>34-1A</td>
<td>Basement</td>
<td>Flue Cement</td>
<td>NAD</td>
</tr>
<tr>
<td>34-2A</td>
<td>Kitchen &amp; Bathroom</td>
<td>1x1 Gray w/White Floor Tile</td>
<td>NAD</td>
</tr>
<tr>
<td>34-3A</td>
<td>Kitchen &amp; Bathroom</td>
<td>1x1 Gray w/ White Floor Tile Mastic (Yellow)</td>
<td>NAD</td>
</tr>
<tr>
<td>34-4A</td>
<td>Kitchen &amp; Bathroom</td>
<td>4&quot; White Covebase</td>
<td>NAD</td>
</tr>
<tr>
<td>34-5A</td>
<td>Kitchen &amp; Bathroom</td>
<td>4&quot; White Covebase Mastic</td>
<td>NAD</td>
</tr>
<tr>
<td>34-6A</td>
<td>Kitchen &amp; Bathroom</td>
<td>White Sink Undercoat</td>
<td>NAD</td>
</tr>
<tr>
<td>34-7A</td>
<td>Stairs</td>
<td>Stair Tread (Brown)</td>
<td>NAD</td>
</tr>
<tr>
<td>34-8A</td>
<td>2nd Floor Bathroom &amp; Closet</td>
<td>White Linoleum</td>
<td>NAD</td>
</tr>
<tr>
<td>34-9A</td>
<td>2nd Floor Bathroom &amp; Closet</td>
<td>White Linoleum Mastic</td>
<td>NAD</td>
</tr>
<tr>
<td>34-10A</td>
<td>2nd Floor Bathroom &amp; Closet</td>
<td>Gray Flooring under Plywood</td>
<td>NAD</td>
</tr>
<tr>
<td>34-11A</td>
<td>2nd Floor Bathroom &amp; Closet</td>
<td>Gray Flooring Mastic on Plywood</td>
<td>NAD</td>
</tr>
<tr>
<td>34-12A</td>
<td>2nd Floor Bathroom &amp; Closet</td>
<td>Misc. Flooring under plywood</td>
<td>NAD</td>
</tr>
<tr>
<td>34-13A</td>
<td>2nd Floor Bathroom &amp; Closet</td>
<td>Misc. Flooring Mastic on Plywood</td>
<td>NAD</td>
</tr>
<tr>
<td>34-14A, B, C, D &amp; E</td>
<td>Attic</td>
<td>Blown-in Insulation</td>
<td>NAD</td>
</tr>
<tr>
<td>34-15A</td>
<td>Attic</td>
<td>Mineral Wool on Pipe</td>
<td>NAD</td>
</tr>
<tr>
<td>34-16A</td>
<td>Attic</td>
<td>Paper Insulation under Mineral Wool on Pipe</td>
<td>NAD 80%</td>
</tr>
<tr>
<td>34-17A &amp; B</td>
<td>Throughout</td>
<td>Sheetrock</td>
<td>NAD</td>
</tr>
<tr>
<td>34-18A, B &amp; C</td>
<td>Throughout</td>
<td>Joint Compound</td>
<td>NAD</td>
</tr>
<tr>
<td>34-19A, B, C, D &amp; E</td>
<td>Throughout</td>
<td>Plaster (Brown)</td>
<td>NAD</td>
</tr>
<tr>
<td>34-20A, B, C, D &amp; E</td>
<td>Throughout</td>
<td>Skim Coat Plaster (White)</td>
<td>NAD</td>
</tr>
<tr>
<td>34-21A</td>
<td>Throughout</td>
<td>Window Glazing</td>
<td>NAD</td>
</tr>
<tr>
<td>34-22A</td>
<td>Roof</td>
<td>Roof Flashing</td>
<td>NAD</td>
</tr>
<tr>
<td>34-23A</td>
<td>Roof</td>
<td>Roof Field</td>
<td>NAD</td>
</tr>
</tbody>
</table>
3.5 CONCLUSIONS AND RECOMMENDATIONS

Asbestos-containing materials discovered during the survey included; chimney flashing and paper insulation under mineral wool pipe insulation.

Wesleyan University recommends that identified ACM impacted by renovation activities be removed in accordance with federal and State of Connecticut regulations. This work is to be performed by a licensed asbestos abatement contractor. Any remaining ACM should be managed under an Operations and Maintenance Program developed specifically to meet the needs of the facility. Notification and labeling requirements as defined by OSHA 1910.1001 and 1926.1101 must be adhered to as part of routine communication with outside contractors and employees.

U.S.E.P.A. regulations require the removal of Regulated Asbestos-Containing Materials (RACM) prior to demolition activities. RACM is defined as (a) Friable asbestos material, (b) Category I nonfriable ACM that has become friable, (c) Category I nonfriable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading, or (d) Category II nonfriable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation activities. The Connecticut Department of Public Health (CT DPH) defines "asbestos abatement" as removal, encapsulation, enclosure, renovation, repair, demolition or other disturbance of asbestos-containing materials but does not include activities which are related to (A) the removal or repair of asbestos cement pipe and are performed by employees of a water company as defined in section 25-32a, or (B) the removal of nonfriable asbestos-containing material found exterior to a building or structure other than material defined as regulated asbestos-containing material in 40 CFR 61, the National Emission Standards for Hazardous Air Pollutants. Based upon these definitions, all ACM identified, with the possible exception of the roofing and transite materials may need to be removed prior to demolition. The roofing and transite materials, which are considered to be Category II nonfriable ACM, do not currently meet the definition of RACM, and therefore may be left intact during demolition provided that the materials do not become friable during demolition, and are not subjected to sanding, grinding, cutting, or abrading during the demolition process, actions which would then re-define the materials to be considered as RACM. Wesleyan University recommends consultation with the CT DPH prior to finalizing demolition plans. Please note, CT Department of Environmental Protection regulations require the proper disposal of all ACM, regardless of categorization.

Asbestos abatement can only be performed by a Connecticut-licensed asbestos abatement contractor. The abatement contractor must follow federal, state, and local regulations, including but not limited to:

- OSHA Regulation 29 CFR 1926.1101 (Asbestos)
- State of Connecticut Department of Health Regulation concerning Asbestos Abatement (19a-332)
- EPA Regulation 40 CFR 763 (NESHAPS)

If this document is to be used for the purpose of obtaining bids from asbestos abatement contractors, Wesleyan University recommends that such bids be based on the contractor's own verification of quantities, conditions, locations, and scope of work described.
APPENDIX A

PLM/TEM BULK SAMPLE LABORATORY REPORTS
## PLM Bulk Asbestos Report

**Wesleyan University**  
**Attn:** Ricky Howard  
**Wesleyan University-Env. Health & Safety**  
**William Street Highrise**  
**Middletown, CT 06459**

**Date Received:** 10/31/08  
**Date Examined:** 11/02/08  
**AmeriSci Job #:** 208104669  
**P.O. #:**  
**Page:** 1 of 7  
**RE:** House Wide; 34 Lawn Ave

<table>
<thead>
<tr>
<th>Client No. / HGA</th>
<th>Lab No.</th>
<th>Asbestos Present</th>
<th>Total % Asbestos</th>
</tr>
</thead>
<tbody>
<tr>
<td>34-1A 1</td>
<td>208104669-01</td>
<td>No</td>
<td>NAD (by CVES)</td>
</tr>
<tr>
<td></td>
<td>Location: Basement; Flue Cement</td>
<td></td>
<td>by Madell E. Collins on 11/02/08</td>
</tr>
</tbody>
</table>

**Analyst Description:** Gray, Homogeneous, Fibrous, Bulk Material  
**Asbestos Types:**  
- Other Material: Fibrous glass 35 %, Non-fibrous 65 %

| 34-2A 2          | 208104669-02  | No               | NAD (by CVES)    |
|                  | Location: Kitchen, Bathrm & Hall; 1 x 1 Gray W/ White F.T. |               | by Madell E. Collins on 11/02/08 |

**Analyst Description:** OffWhite, Heterogeneous, Non-Fibrous, Bulk Material  
**Asbestos Types:**  
- Other Material: Non-fibrous 100 %

| 34-3A 3          | 208104669-03  | No               | NAD (by CVES)    |
|                  | Location: Kitchen, Bathrm & Hall; 1 x 1 Gray W/ White F.T. Mastic (Yellow) |               | by Madell E. Collins on 11/02/08 |

**Analyst Description:** Tan, Homogeneous, Non-Fibrous, Bulk Material  
**Asbestos Types:**  
- Other Material: Non-fibrous 100 %

| 34-4A 4          | 208104669-04  | No               | NAD (by CVES)    |
|                  | Location: Kitchen, Bathrm & Hall; 4" White Covebase |               | by Madell E. Collins on 11/02/08 |

**Analyst Description:** White, Homogeneous, Non-Fibrous, Bulk Material  
**Asbestos Types:**  
- Other Material: Non-fibrous 100 %

| 34-5A 5          | 208104669-05  | No               | NAD (by CVES)    |
|                  | Location: Kitchen, Bathrm & Hall; 4" White Covebase Mastic (Yellow) |               | by Madell E. Collins on 11/02/08 |

**Analyst Description:** Tan, Homogeneous, Non-Fibrous, Bulk Material  
**Asbestos Types:**  
- Other Material: Non-fibrous 100 %

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**Reporting notes on last page**
# PLM Bulk Asbestos Report

**House Wide; 34 Lawn Ave**

<table>
<thead>
<tr>
<th>Client No. / HGA</th>
<th>Lab No.</th>
<th>Asbestos Present</th>
<th>Total % Asbestos</th>
<th>Analyst Description</th>
<th>Asbestos Types</th>
<th>Other Material: Non-fibrous 100 %</th>
</tr>
</thead>
<tbody>
<tr>
<td>34-8A 6</td>
<td>208104669-06</td>
<td>No</td>
<td>NAD</td>
<td></td>
<td>White, Homogeneous, Fibrous, Bulk Material</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Location: Kitchen, Bathrm &amp; Hall; White Sink Undercoat</td>
<td></td>
<td>(by CVES)</td>
<td>by Madell E. Collins</td>
<td></td>
<td></td>
</tr>
<tr>
<td>34-7A 7</td>
<td>208104669-07</td>
<td>No</td>
<td>NAD</td>
<td></td>
<td>Brown, Homogeneous, Non-Fibrous, Bulk Material</td>
<td>Non-fibrous 90 %</td>
</tr>
<tr>
<td></td>
<td>Location: Stair; Stair Tread</td>
<td></td>
<td>(by CVES)</td>
<td>by Madell E. Collins</td>
<td></td>
<td></td>
</tr>
<tr>
<td>34-8A 8</td>
<td>208104669-08</td>
<td>No</td>
<td>NAD</td>
<td></td>
<td>White/Tan, Heterogeneous, Fibrous, Bulk Material</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Location: 2nd Fl Bathrm (2) &amp; Hall, Closet; White Linoleum (1)</td>
<td></td>
<td>(by CVES)</td>
<td>by Madell E. Collins</td>
<td></td>
<td></td>
</tr>
<tr>
<td>34-9A 9</td>
<td>208104669-09</td>
<td>No</td>
<td>NAD</td>
<td></td>
<td>Tan, Homogeneous, Non-Fibrous, Bulk Material</td>
<td>Bulk Material</td>
</tr>
<tr>
<td></td>
<td>Location: 2nd Fl Bathrm (2) &amp; Hall, Closet; White Linoleum Mastic On Plywood (2)</td>
<td></td>
<td>(by CVES)</td>
<td>by Madell E. Collins</td>
<td></td>
<td></td>
</tr>
<tr>
<td>34-10A 10</td>
<td>208104669-10</td>
<td>No</td>
<td>NAD</td>
<td></td>
<td>Grey, Heterogeneous, Fibrous, Bulk Material</td>
<td>Fibrous glass Trace</td>
</tr>
<tr>
<td></td>
<td>Location: 2nd Fl Bathrm (2) &amp; Hall, Closet; Gray Flooring Under Plywood (3)</td>
<td></td>
<td>(by CVES)</td>
<td>by Madell E. Collins</td>
<td></td>
<td></td>
</tr>
<tr>
<td>34-11A 11</td>
<td>208104669-11</td>
<td>No</td>
<td>NAD</td>
<td></td>
<td>Tan, Homogeneous, Non-Fibrous, Bulk Material</td>
<td>Non-fibrous 100 %</td>
</tr>
<tr>
<td></td>
<td>Location: 2nd Fl Bathrm (2) &amp; Hall, Closet; Gray Flooring Mastic Under Plywood (4)</td>
<td></td>
<td>(by CVES)</td>
<td>by Madell E. Collins</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Reporting notes on last page*
## PLM Bulk Asbestos Report
### House Wide: 34 Lawn Ave

<table>
<thead>
<tr>
<th>Client No / HGA</th>
<th>Lab No.</th>
<th>Asbestos Present</th>
<th>Total % Asbestos</th>
<th>Analyst Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>34-12A</td>
<td>208104669-12</td>
<td><strong>No</strong></td>
<td><strong>NAD</strong></td>
<td>Location: 2nd Fl Bathrm (2) &amp; Hall, Closet; Misc. Flooring Under Plywood (5)</td>
</tr>
<tr>
<td>12</td>
<td></td>
<td></td>
<td></td>
<td>Analyst Description: OffWhite/Grey, Homogeneous, Non-Fibrous, Bulk Material</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Asbestos Types:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Other Material: Non-fibrous 100%</td>
</tr>
<tr>
<td>34-13A</td>
<td>208104669-13</td>
<td><strong>No</strong></td>
<td><strong>NAD</strong></td>
<td>Location: 2nd Fl Bathrm (2) &amp; Hall, Closet; Misc. Floor Mastic (6)</td>
</tr>
<tr>
<td>13</td>
<td></td>
<td></td>
<td></td>
<td>Analyst Description: Tan/Black, Homogeneous, Non-Fibrous, Bulk Material</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Asbestos Types:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Other Material: Non-fibrous 100%</td>
</tr>
<tr>
<td>34-14A</td>
<td>208104669-14</td>
<td><strong>No</strong></td>
<td><strong>NAD</strong></td>
<td>Location: Attic; Blown- In Insulation</td>
</tr>
<tr>
<td>14</td>
<td></td>
<td></td>
<td></td>
<td>Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Asbestos Types:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Other Material: Cellulose 100%</td>
</tr>
<tr>
<td>34-14B</td>
<td>208104669-15</td>
<td><strong>No</strong></td>
<td><strong>NAD</strong></td>
<td>Location: Attic; Blown- In Insulation</td>
</tr>
<tr>
<td>14</td>
<td></td>
<td></td>
<td></td>
<td>Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material</td>
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<td></td>
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<td>Asbestos Types:</td>
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<td>Other Material: Cellulose 100%</td>
</tr>
<tr>
<td>34-14C</td>
<td>208104669-16</td>
<td><strong>No</strong></td>
<td><strong>NAD</strong></td>
<td>Location: Attic; Blown- In Insulation</td>
</tr>
<tr>
<td>14</td>
<td></td>
<td></td>
<td></td>
<td>Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material</td>
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<td>Asbestos Types:</td>
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<td>Other Material: Cellulose 100%</td>
</tr>
<tr>
<td>4-14D</td>
<td>208104669-17</td>
<td><strong>No</strong></td>
<td><strong>NAD</strong></td>
<td>Location: Attic; Blown- In Insulation</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td>Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material</td>
</tr>
<tr>
<td></td>
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<td>Asbestos Types:</td>
</tr>
<tr>
<td></td>
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<td>Other Material: Cellulose 100%</td>
</tr>
</tbody>
</table>

*Reporting notes on last page*
<table>
<thead>
<tr>
<th>Client No. / HGA</th>
<th>Lab No.</th>
<th>Asbestos Present</th>
<th>Total % Asbestos</th>
<th>Analyst Description</th>
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</thead>
<tbody>
<tr>
<td>34-14E</td>
<td>208104669-18</td>
<td>No</td>
<td>NAD</td>
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<tr>
<td>34-15A</td>
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<td>No</td>
<td>NAD</td>
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<tr>
<td>34-16A</td>
<td>208104669-20</td>
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<td>80%</td>
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<tr>
<td>34-17A</td>
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<tr>
<td>34-17B</td>
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<td>NAD</td>
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<td>34-18A</td>
<td>208104669-23</td>
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Reporting notes on last page
<table>
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<tr>
<th>Client No. / HGA</th>
<th>Lab No.</th>
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<th>Total % Asbestos</th>
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<tbody>
<tr>
<td>34-18B</td>
<td>208104669-24</td>
<td>No</td>
<td>NAD</td>
</tr>
<tr>
<td>18</td>
<td></td>
<td>(by CVES)</td>
<td>by Madell E. Collins on 11/03/08</td>
</tr>
<tr>
<td>Location:</td>
<td>Throughout; J.C.</td>
<td></td>
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</tr>
<tr>
<td>Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material</td>
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</tr>
<tr>
<td>Asbestos Types:</td>
<td>Non-fibrous 100 %</td>
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<tr>
<td>34-18C</td>
<td>208104669-25</td>
<td>No</td>
<td>NAD</td>
</tr>
<tr>
<td>18</td>
<td></td>
<td>(by CVES)</td>
<td>by Madell E. Collins on 11/03/08</td>
</tr>
<tr>
<td>Location:</td>
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<tr>
<td>Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material</td>
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</tr>
<tr>
<td>Asbestos Types:</td>
<td>Non-fibrous 100 %</td>
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<td></td>
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<tr>
<td>34-19A</td>
<td>208104669-26</td>
<td>No</td>
<td>NAD</td>
</tr>
<tr>
<td>19</td>
<td></td>
<td>(by CVES)</td>
<td>by Madell E. Collins on 11/03/08</td>
</tr>
<tr>
<td>Location:</td>
<td>Throughout; Plaster</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Analyst Description: Grey, Homogeneous, Fibrous, Cementitious, Bulk Material</td>
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<tr>
<td>Asbestos Types:</td>
<td>Animal hair Trace, Cellulose 2 %, Non-fibrous 98 %</td>
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<td>34-19B</td>
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<td>NAD</td>
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<td>19</td>
<td></td>
<td>(by CVES)</td>
<td>by Madell E. Collins on 11/03/08</td>
</tr>
<tr>
<td>Location:</td>
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<tr>
<td>Analyst Description: Grey, Homogeneous, Fibrous, Cementitious, Bulk Material</td>
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<td></td>
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<tr>
<td>Asbestos Types:</td>
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<td>34-19C</td>
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<td>No</td>
<td>NAD</td>
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<td>19</td>
<td></td>
<td>(by CVES)</td>
<td>by Madell E. Collins on 11/03/08</td>
</tr>
<tr>
<td>Location:</td>
<td>Throughout; Plaster</td>
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<tr>
<td>Analyst Description: Grey, Homogeneous, Fibrous, Cementitious, Bulk Material</td>
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<td>Asbestos Types:</td>
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<tr>
<td>34-19D</td>
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<td>No</td>
<td>NAD</td>
</tr>
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<td>(by CVES)</td>
<td>by Madell E. Collins on 11/03/08</td>
</tr>
<tr>
<td>Location:</td>
<td>Throughout; Plaster</td>
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<tr>
<td>Analyst Description: Grey, Homogeneous, Fibrous, Cementitious, Bulk Material</td>
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<td></td>
</tr>
<tr>
<td>Asbestos Types:</td>
<td>Animal hair Trace, Cellulose 5 %, Non-fibrous 95 %</td>
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</tbody>
</table>

*Reporting notes on last page*
<table>
<thead>
<tr>
<th>Client No. / HGA</th>
<th>Lab No.</th>
<th>Asbestos Present</th>
<th>Total % Asbestos</th>
</tr>
</thead>
<tbody>
<tr>
<td>34-19E</td>
<td>208104669-30</td>
<td>No</td>
<td>NAD (by CVES)</td>
</tr>
<tr>
<td>19</td>
<td>Location: Throughout; Plaster</td>
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<td></td>
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<tr>
<td>34-20A</td>
<td>208104669-31</td>
<td>No</td>
<td>NAD (by CVES)</td>
</tr>
<tr>
<td>20</td>
<td>Location: Throughout; Skim Coat Plaster</td>
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<tr>
<td>34-20B</td>
<td>208104669-32</td>
<td>No</td>
<td>NAD (by CVES)</td>
</tr>
<tr>
<td>20</td>
<td>Location: Throughout; Skim Coat Plaster</td>
<td></td>
<td></td>
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<tr>
<td>34-20C</td>
<td>208104669-33</td>
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<td>NAD (by CVES)</td>
</tr>
<tr>
<td>20</td>
<td>Location: Throughout; Skim Coat Plaster</td>
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</tr>
<tr>
<td>34-20D</td>
<td>208104669-34</td>
<td>No</td>
<td>NAD (by CVES)</td>
</tr>
<tr>
<td>20</td>
<td>Location: Throughout; Skim Coat Plaster</td>
<td></td>
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</tbody>
</table>

*Analyst Description: Grey, Homogeneous, Fibrous, Cementitious, Bulk Material
*Other Material: Animal hair Trace, Cellulose 1%, Non-fibrous 99%*
## PLM Bulk Asbestos Report

**House Wide; 34 Lawn Ave**

<table>
<thead>
<tr>
<th>Client No. / HGA</th>
<th>Lab No.</th>
<th>Asbestos Present</th>
<th>Total % Asbestos</th>
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<tbody>
<tr>
<td>34-20E 20</td>
<td>208104689-35</td>
<td>No</td>
<td>NAD</td>
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<tr>
<td></td>
<td>Location: Throughout; Skim Coat Plaster</td>
<td></td>
<td>(by CVES)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>by Madell E. Collins on 11/03/08</td>
</tr>
<tr>
<td>34-21A 21</td>
<td>208104689-36</td>
<td>No</td>
<td>NAD</td>
</tr>
<tr>
<td></td>
<td>Location: Exterior; Window Glazing</td>
<td></td>
<td>(by CVES)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>by Madell E. Collins on 11/03/08</td>
</tr>
<tr>
<td>34-22A 22</td>
<td>208104689-37</td>
<td>No</td>
<td>NAD</td>
</tr>
<tr>
<td></td>
<td>Location: Exterior; Roof Flashing</td>
<td></td>
<td>(by CVES)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>by Madell E. Collins on 11/03/08</td>
</tr>
<tr>
<td>34-23A 23</td>
<td>208104689-38</td>
<td>No</td>
<td>NAD</td>
</tr>
<tr>
<td></td>
<td>Location: Exterior; Roof Field</td>
<td></td>
<td>(by CVES)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>by Madell E. Collins on 11/03/08</td>
</tr>
</tbody>
</table>

### Reporting Notes:

- **NAD/NSD** = no asbestos detected; **NA** = not analyzed; **NAPS** = not analyzed/positive stop; **PLM** = PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLE Lab Code 200546-0), ELAP PLM Method 18.1 for NY friable samples or 18.6 for NOB samples (NY ELAP Lab ID11460); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in NY State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the lab. This PLM report relates ONLY to the items tested. ALHA Lab # 102843.
<table>
<thead>
<tr>
<th>Building</th>
<th>Room</th>
<th>Material Description / Location</th>
<th>Address</th>
<th>Type</th>
<th>Estimated Amount</th>
<th>Frangible</th>
<th>Condition (SD, FD, ND)</th>
<th>Reason for Damage</th>
<th>Damage Potential (NP, FD, PS)</th>
<th>Sample of (homogeneous material)</th>
<th>Field Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>House</td>
<td>1st Fl Wall</td>
<td>12&quot; Grey w/ white F.I.</td>
<td>34 Lawn Ave</td>
<td>M</td>
<td>2.5 lbs</td>
<td>Z</td>
<td>ND</td>
<td>Dust</td>
<td>PSD</td>
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<td>34-1A</td>
</tr>
<tr>
<td></td>
<td>1st Fl Wall</td>
<td>12&quot; White Coverbase Mastic (Yellow)</td>
<td></td>
<td>M</td>
<td>4 lbs</td>
<td>Z</td>
<td>ND</td>
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<td>PSD</td>
<td>1</td>
<td>34-3A</td>
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<tr>
<td></td>
<td>1st Fl Wall</td>
<td>White Sink Undercoat</td>
<td></td>
<td>M</td>
<td>2 lbs</td>
<td>N</td>
<td>ND</td>
<td></td>
<td>PSD</td>
<td>1</td>
<td>34-5A</td>
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Comments (inaccessible areas, etc.):

$275 AER, requires 2nd try to coat.
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<th>Room</th>
<th>Material Description / Location</th>
<th>Type</th>
<th>Estimated Amt</th>
<th>Frangible yes/no</th>
<th>Condition (SD ND)</th>
<th>Possible Reason for Damage</th>
<th>Damage Potential (NPD PD PS)</th>
<th>Sample of (homogeneous material)</th>
<th>Field Number</th>
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</thead>
<tbody>
<tr>
<td>Kitchen / Counter</td>
<td>Backsplash Mastic</td>
<td>M</td>
<td>20</td>
<td>N</td>
<td>ND</td>
<td>Demo</td>
<td>PSD</td>
<td>-</td>
<td>PACM</td>
</tr>
<tr>
<td>Stair</td>
<td>Stair Tread</td>
<td>M</td>
<td>20</td>
<td>N</td>
<td>ND</td>
<td></td>
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<td>34-FA</td>
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<tr>
<td>2nd Fl. Bath / Clo</td>
<td>White Linoleum</td>
<td>M</td>
<td>300</td>
<td>N</td>
<td>ND</td>
<td></td>
<td>PSD</td>
<td>1 1</td>
<td>34-BA</td>
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<td>Hall / Closet</td>
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<td>N</td>
<td>ND</td>
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<td>PSD</td>
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<td>Gray Flooring under plywood</td>
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<td>ND</td>
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<td>PSD</td>
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<tr>
<td></td>
<td>Misc. Flooring under plywood</td>
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<td>ND</td>
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<td>ND</td>
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<tr>
<td>Attic</td>
<td>Blown-In Insulation</td>
<td>M</td>
<td>2000</td>
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<td>ND</td>
<td></td>
<td>PSD</td>
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<td>34-14A, B, C</td>
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</table>

Notes:
- Damage Factors:
  - Physical (e.g., drog-dropped damage)
  - Water (water-damaged, water-sensitive)
  - Frangible (frangible, if applicable)
  - Frangible (frangible, if applicable)

- Relinquished By/Date: Ricky Howard 10/30/08
- Received By/Date: 10/31/08
<table>
<thead>
<tr>
<th>Room</th>
<th>Material Description / Location</th>
<th>Type</th>
<th>Estimated Amt.</th>
<th>Friable Tanks</th>
<th>Condition (SD ND)</th>
<th>Possible Reason for Damage</th>
<th>Damage Potential (NPD PD PSD)</th>
<th>Sample_of (homo geneous mats)</th>
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</thead>
<tbody>
<tr>
<td>Attic</td>
<td>Mineral Wool on Pipe</td>
<td>S</td>
<td></td>
<td>Y</td>
<td>NO</td>
<td>Demo</td>
<td>PSD</td>
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<td>34-15A</td>
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<tr>
<td></td>
<td>Paper Ins. Under Mineral Wool on Pipe</td>
<td>M</td>
<td></td>
<td>Y</td>
<td>ND</td>
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<td>PSD</td>
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<td>ND</td>
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<tr>
<td></td>
<td>J.C.</td>
<td>M</td>
<td>&lt;1000</td>
<td>N</td>
<td>ND</td>
<td></td>
<td>PSD</td>
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<td>Plaster</td>
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<td>&lt;5000</td>
<td>Z</td>
<td>ND</td>
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<td>Skim Coat Plaster</td>
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<td>ND</td>
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<td>Exposed</td>
<td>Window Glazing</td>
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<td>Y</td>
<td>ND</td>
<td></td>
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<td>Chimney Flashing</td>
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Comments (inaccessible areas, etc.):

Reinquished By/Date:  
Received By/Date:  
Received By/Date:

C:\Documents and Settings\howard\My Documents\Ricky J\Forms\Westayan Asbestos Bulk Sample Form.doc
<table>
<thead>
<tr>
<th>Room</th>
<th>Material Description / Location</th>
<th>Type</th>
<th>Estimated Amt</th>
<th>Frangible yes/no</th>
<th>Condition (SD DN)</th>
<th>Possible Reason for Damage</th>
<th>Date: 10/30/08</th>
<th>Sample of (homogeneous mat)</th>
<th>Field Number</th>
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</thead>
<tbody>
<tr>
<td>IN</td>
<td>ELECTRICAL WIRE (old)</td>
<td>m</td>
<td>?</td>
<td>N</td>
<td>MO</td>
<td>Demo</td>
<td>PSD</td>
<td>PACM</td>
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</tbody>
</table>

Comments (Inaccessible areas, etc.):

Relinquished By/Date:  
Ricky Howard 10/30/08

Received By/Date:  

[Signature] 4/1
APPENDIX B

INSPECTOR TRAINING CERTIFICATIONS AND LICENSES
STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
Pursuant to the provisions of the General Statutes of Connecticut
the individual named below is licensed
by this department as a
Asbestos Consultant - Insp/Mgmt Planner

License No. 000208
Current Through 11/30/08
Validation No. 03-570752

Ricky Howard

[Signature]

Commissioner
Certificate of Training

RICKY HOWARD

Awarded to

Asbestos Inspector & Management Planner
Annual Refresher Training

10/03/2008

This training was approved and given in accordance with
Regulations for Connecticut State Agencies.
RCRA 20-440-1.9 and RCRA 20-441
meets the requirements of the EPA Revised MAF under TSCA Title II of 4/4/94

Mystic Air Quality Consultants, Inc.
1204 North Road, Groton, CT 06340 (800) 247-7746

Examination Date: 10/03/2008
Examination Grade: 100
Certificate Number: IMPR17288

Christopher E. Eiden, CHP, CSP, RS

George Williamson, Training Director