



FLI Environmental

858 WASHINGTON STREET
DEDHAM, MA 02026
PHONE 781.251.0040
FAX 781.251.0901

January 5, 2011

Ms. Patricia Basler
Stoughton Public Library
84 Park Street
Stoughton, Massachusetts 02072

RE: Asbestos and Hazardous Materials Inspection Report for
Stoughton Public Library
Stoughton, Massachusetts
FLI Project # 10-1186

Dear Ms. Basler:

FLI Environmental, Inc. (FLI) is pleased to submit the completed Asbestos and Hazardous Materials Inspection Report for the survey performed at the above referenced location. The summary report and bulk sample results outline the findings of the inspection conducted by FLI on December 15, 2010.

Should you have any questions regarding this report or project, please do not hesitate to contact us at (781) 251-0040. FLI appreciates the opportunity to provide our services.

Sincerely,
FLI Environmental, Inc.

Richard K. Bowen
Senior Project Manager



FLI Environmental

858 WASHINGTON STREET
DEDHAM, MA 02026
PHONE 781.251.0040
FAX 781.251.0901

**ASBESTOS AND HAZARDOUS MATERIALS
INSPECTION REPORT**

For

**STOUGHTON PUBLIC LIBRARY
84 PARK STREET
STOUGHTON, MASSACHUSETTS**

Report Written By:



Richard K. Bowen
MassDOS Asbestos Inspector # 061044

Report Reviewed By:

David MacDonald
President

Prepared for:

Ms. Patricia Basler
Stoughton Public Library
84 Park Street
Stoughton, Massachusetts 02072

FLI Project #:

10-1185

Inspection Date:

December 15, 2010

Report Date:

January 5, 2011

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ASBESTOS and HAZARDOUS MATERIALS INSPECTION REPORT
For
Stoughton Public Library
Stoughton, Massachusetts

1.0 Introduction:

1. FLI Environmental, Inc. (FLI) was retained by Stoughton Public Library (Client) to perform pre-renovation asbestos and hazardous materials inspection at the library located at 84 Park Street in Stoughton, Massachusetts. The inspection included a visual survey and sampling for suspect asbestos containing materials (ACMs) throughout the interior and exterior of the multi-level building located at the above mentioned address. The inspection included the collection of twenty-seven (71) bulk samples for analysis to confirm the asbestos content of suspect building materials and six (6) paint chip samples to be analyzed for the presence of lead. Radon testing was also performed between December 21 and 23, 2010. The inspection and sampling was performed by FLI's Richard K. Bowen, Massachusetts Department of Occupational Safety (MassDOS) Asbestos Inspector License #AI 061044 on December 15, 2010.
2. The summary report contains a summary of the findings and bulk sample analytical results. The summary outlines the general location, condition and estimated quantity of ACMs identified in the building, also, recommended response actions (RRAs) and abatement cost estimates are provided for removing the asbestos materials identified.
3. The inspection was conducted for accessible materials in the following areas:
 1. First Floor
 2. Second Floor
 3. Exterior
 4. Roof
4. FLI identified the following asbestos containing materials at the time of inspection:
 1. Floor Tile and Associated Mastic
 2. Joint Compound Associated with Gypsum Board Wall Systems
 3. Window Glazing
 4. Exterior Window Caulking
 5. Flue/Chimney Packing
 6. Boiler - Interior Components
 7. Flange Gaskets
 8. Penetration/Curbing Flashing (Roof)

2.0 Scope of Work:

1. A visual inspection was performed within accessible sections of the designated work areas to identify existing locations, conditions, and estimated quantities of suspect ACMs prior to proposed renovation activities. Representative areas were inspected for suspect materials within these designated areas. Both friable and non-friable suspect ACMs were inspected and sampled within the building.

2. A visual evaluation of the designated areas was performed to identify other hazardous or potentially hazardous materials such as hydraulic door closers, miscellaneous equipment oils, mercury boiler controllers and switches, tritium-based exit signs, lead-acid batteries and cooling units which may contain chlorofluorocarbons (CFCs).
3. Painted surfaces were sampled and analyzed for the presence of lead.
4. One short-term radon sample was collected from the ground floor in the children's area. The sample was collected using a liquid scintillation vial and analyzed at AccuStar Labs in Medway, MA.

3.0 Summary of Asbestos-Containing Materials:

1. The following building materials and general location were identified as **asbestos-containing materials**:

Stoughton Public Library Stoughton, MA Asbestos Containing Material Summary Table				
Material (ACM)	General Location	Condition F/NF	Estimated Quantity	Sample #s
Floor Tile and Associated Black Mastic	Throughout	Good NF	8,500 SF	1186-012A,B; 013A,B 10% Chrysotile
Joint Compound and Associated Gypsum Board	First & Second Floors	Good F	20,500 SF	1186-01A,B; 02A,B,C,D,E,F,G 2% Chrysotile
Chimney/Flue Packing	Boiler Room	Good F	4 SF	1186-026 20% Chrysotile
Window Glazing	Exterior	Good NF	81 Windows	1186-018A,B 10% Chrysotile
Window/Beam Caulking	Exterior - Atrium Windows	Good NF	32 Windows	1186-033A,B 5% Chrysotile
Penetration/Curb Flashing	Exterior, Roof, Beneath Membrane	Good NF	1,000 SF	1186-035A,B 10% Chrysotile
Interior Boiler Components	Boiler Room	Good F	1 Boiler	Assumed
Flange Gaskets	Throughout	Good NF	15 Units	Assumed

***Please see section 5.0 for additional information**

Note: Chrysotile is a type of asbestos NF = Non-friable

SF = square feet LF = linear feet NA=Not applicable F = Friable

4.0 Summary of Non-Asbestos Building Materials:

1. The suspect materials listed below were sampled, analyzed and found **not to contain asbestos or less than (<1%)**. The exact sampling location and analytical results are provided in the analytical data table appendix. These materials may be classified and treated as non-asbestos materials. Please note that, although additional materials sampled may also have been found not to contain asbestos, they are not listed below as they overlie asbestos-containing materials and must be considered ACM as well.

Stoughton Public Library Stoughton, MA Non-Asbestos Containing Material Summary Table		
Material (Non-ACM)	General Location	Sample #s
Wall Plaster (May be installed over gypsum board system)	First Floor, Stack Area	1186-03A,B,C; 04A,B,C
Textured Ceiling Plaster	Second Floor, Garage, Elevator Mechanical Room	1186-05A,B
Textured Wall Paint	Second Floor, Entrance Foyer	1186-06A,B
Various 12"x 12", 2'x 2' and 2'x 4' Ceiling Tiles and Associated Adhesives	Throughout	1186-07A,B; 08A,B; 09A,B; 010A,B; 011
Vinyl Cove Base and Associated Mastic	Throughout	1186-014A,B; 015A,B
Gray Carpet Mastic	Throughout	1186-016A,B
Tan Sink Undercoating	Second Floor, Kitchen	1186-017
Vinyl Stair Tread and Associated Adhesive	Main Stairs	1186-019,020
White Expansion Joint Caulking	Throughout	1186-021A,B
Sound Dampening Panels on HVAC Units and Associated Adhesive	HVAC Rooms	1186-022,023
Vinyl Stair Tread and Associated Adhesive	Main Stairs	1186-019,020
Hard Fittings on Fiberglass Insulated Pipes	Throughout	1186-024A,B,C,D,E
Mudded Fitting on Flange Ends	Throughout	1186-025A,B,C

5.0 Hazardous Materials

1. FLI conducted visual observations of the designated areas to identify hazardous materials that require removal and disposal prior to demolition or renovation. Hazardous materials observed include fluorescent lamps and ballasts, hydraulic door closers, miscellaneous equipment oils, exit signs/emergency lighting/strobes (lead-acid batteries), and cooling units which may contain chlorofluorocarbons (CFCs).
2. Quantities of identified hazardous materials and estimated costs for abatement and disposal are presented in Section 10.

6.0 Summary of Paint Chip Analysis:

1. FLI collected six (6) paint chip samples from various surfaces. Varying concentrations of lead were detected in painted/coated building components on the interior of the Site building. The USEPA regulatory limit is 0.5 percent by weight for classification as a lead-based paint. Analytical results of paint chip samples are presented below. A copy of the lead paint analytical report is provided in the Appendix. Any disturbance of lead-containing paint during construction activities is subject to the OSHA *Lead Construction Standard* (29 CFR 1926.62).

Stoughton Public Library Stoughton, MA Paint Chip Analysis Summary Table		
General Location	Result (% Pb by Weight)	Sample #s
First Floor, Paint on Steel Column	0.25	1186-01PB
First Floor, Paint on Concrete Wall	<0.011	1186-02PB
Second Floor, Original Paint on Plaster Wall	<0.022	1186-03PB
Second Floor, Paint on Metal Door Frame @ Workroom	0.17	1186-04PB
Second Floor, Paint on Metal Door Frame, Garage	0.039	1186-05PB
Second Floor, Main Stairs, Brown Paint on Metal Balusters	1.8	1186-06PB

7.0 Summary of Airborne Sampling for Radon

1. Radon gas comes from the natural (radioactive) breakdown of uranium in soil, rock, and water and gets into the air you breathe. It can enter any type of building, including homes, offices, and schools.

The average indoor radon level is estimated to be about 1.3 picocuries per liter of air (pCi/L), and about 0.4 pCi/L of radon is normally found in the outside air. The U.S. Congress has set a long-term goal that indoor radon levels be no more than outdoor levels. While this goal is not yet technologically achievable in all cases, most homes today can be reduced to 2.0 pCi/L or below. The EPA has set the action level (mitigation measures should be implemented) of radon in homes at 4.0 pCi/L. Even if your test result is below 4.0 pCi/L, you may want to test again sometime in the future.

Concentrations from the sample collected on the ground level of the Subject Building were 6.0 pCi/L, which is above the aforementioned action level. *See Appendix for Radon Sample Results.*

8.0 Recommendations:

1. Quantities in this report are estimates and should not be used as a reference guide for the abatement bid process. FLI recommends that the abatement contractor compile their own material quantities and submit them as part of the bid package.
2. All confirmed asbestos-containing materials that will be disturbed by the upcoming renovation/demolition must be removed by a licensed asbestos abatement contractor.
3. Although window caulking samples collected from "non-Atrium" windows were negative, it should be noted that this may be a newer caulking. There may be an older caulking beneath that is inaccessible at this time. Therefore, further testing of the may be necessary to fully characterize the material.
4. The concentration from the radon analysis was above the EPA-recommended action level of 4 pCi/L. The EPA recommends that action be taken to reduce radon levels if this level is exceeded in occupied areas.
5. Although not all paint chip samples analyzed contained lead concentrations high enough to meet EPA's definition of a lead-based paint, if there is detectable lead any activities which disturb it would still be subject to the OSHA *Lead Construction Standard* (29 CFR 1926.62).

9.0 Remarks:

1. Bulk samples were collected in a random manner and submitted via chain of custody to EMSL Analytical Services, Inc. located in Woburn, Massachusetts. The samples were analyzed by Polarized Light Microscopy per EPA Method 600/R-93-116, July 1993. The

detection limit of the EPA recommended method is one percent asbestos by weight. Materials containing greater than one percent asbestos are treated as asbestos-containing as required by the EPA. The laboratory is accredited by the National Institute of Standards and Technologies NIST/NVLAP Program (NVLAP #101147-0) and licensed by the MassDOS (AA000188) for asbestos analysis in bulk materials.

2. Paint chip samples were submitted via chain of custody to EMSL Analytical Services, Inc. located in Westmont, New Jersey.
3. The radon sample was submitted via chain of custody to AccuStar Labs located in Medway, MA.
4. Any additional suspect materials not identified in this report that become exposed during building renovation/demolition activities should be sampled and analyzed for asbestos content.
5. Areas within walls, drywall encased columns and above ceilings were inspected (if present) in accessible representative locations. However, each individual enclosed area was not inspected. Accessible areas beneath such surfaces were examined. Access beneath and within existing mechanical equipment was not performed. Material quantities were estimated based on these observations.
6. Homogeneous materials observed to be non-suspect by the inspector (if present) include concrete floors, wood flooring, concrete pads which hold equipment, black/brown vinyl flexible duct connectors, fiberglass insulated ducting and piping and Zeston® (PVC) elbows, fiberglass batt insulation, Armaflex® (neoprene) insulation and wiring.

10.0 Estimated Abatement Costs:

1. Estimated costs are based on removal activities (licensed abatement contractor) only and do not include compliance oversight, quality assurance monitoring, air sampling during the performance of the work, or post abatement air clearances which are required by the MassDEP and MassDOS. These costs are estimated to be 10-15% of the abatement costs.
2. The preliminary abatement cost estimates for each material by a licensed non-union contractor are as follows:

Asbestos Abatement Cost COST ESTIMATE SUMMARY TABLE				
Material	General Location	Estimated quantity	Removal Cost(\$) Per unit	Total Removal Cost(\$)
Floor Tile and Associated Black Mastic	Throughout	8,500 SF	\$4.00/SF	\$34,000
Joint Compound and Associated Gypsum Board	First & Second Floors	20,500 SF	\$5.00/SF	\$102,500
Chimney/Flue Packing	Boiler Room	4 SF	\$25.00/SF	\$100
Window Glazing	Exterior	81 Windows	\$150.00/ Unit	\$12,150
Window/Beam Caulking	Exterior - Atrium Windows	32 Windows	\$100.00/ Unit	\$3,200
Penetration/Curb Flashing	Exterior, Roof, Beneath Membrane	1,000 SF	\$5.00/SF	\$5,000
Interior Boiler Components	Boiler Room	1 Boiler	\$2,500.00/ LS	\$2,500
Flange Gaskets	Throughout	15 Units	\$75.00/ Unit	\$1,125
Estimated Contractor Total for Abatement and Disposal				\$160,575
Project consulting and monitoring				\$24,000
Subtotal (Rounded to the nearest \$1,000)				\$185,000
Contingency for unexpected abatement difficulties, not including multiple phasing				\$19,000
Total				\$204,000

Hazardous Materials Abatement COST ESTIMATE SUMMARY TABLE				
Hazardous Material	Location	Estimate d Quantity	Removal Cost (\$) per unit	Total Removal Cost (\$)
Fluorescent Light Tubes	Throughout	778 Tubes	\$5.00/ Tube	\$3,890
Fluorescent Light Ballasts	Throughout	379 Ballasts	\$10.00/ Ballast	\$3,790
Lead-Acid Batteries (Exit Signs, Strobes, Emergency Lights, Fire Control & UPS backup Units)	Throughout First and Second Floors	30 Batteries	\$40.00/ Battery	\$1,200
Miscellaneous Equipment Oils (Hydraulic Door Closers, Elevator, etc)	Throughout	2 Lab Packs	\$650.00/ Lab Pack	\$1,300
Smoke Detectors	First & Second Floors (one on each)	2 Units	\$25.00/Unit	\$50
chlorofluorocarbons (CFCs) Associated with Water Fountain	First Floor	1 Unit	\$200.00/ Unit	\$200
Estimated Contractor Total for Abatement and Disposal				\$10,430
Project consulting and oversight				\$1,500
Subtotal (Rounded to the nearest \$1,000)				\$12,000
Contingency for unexpected abatement difficulties, not including multiple phasing				\$1,200
Total \$13,200				

ASBESTOS ANALYTICAL RESULTS



EMSL Analytical, Inc.

7 Constitution Way, Suite 107, Woburn, MA 01801

Phone: (781) 933-8411 Fax: (781) 933-8412 Email: bostonlab@emsl.com

Attn: **Rick Bowen**
FLI Environmental, Inc.
858 Washington Street
Suite 50
Dedham, MA 02026

Customer ID: FLIE62
Customer PO:
Received: 12/29/10 11:30 AM
EMSL Order: 131005353

Fax: (781) 251-0901 Phone: (781) 251-0040
Project: 10-1186 / Stoughton Public Library; 84 Park Street;
Stoughton, MA

EMSL Proj:
Analysis Date: 1/4/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1186-01A 131005353-0001	1st Fl; Video Area - Gypsum Wallboard	Tan/White Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected
1186-01B 131005353-0002	2nd Fl; Shipping/Garage - Gypsum Wallboard	Tan/White Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected
1186-02A 131005353-0003	1st Fl; Wall Chase - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
1186-02B 131005353-0004	2nd Fl; Coat Rm - Joint Compound	White Non-Fibrous Homogeneous		98% Non-fibrous (other)	2% Chrysotile
1186-02C 131005353-0005	2nd Fl; Bathrm 1 - Joint Compound	White Non-Fibrous Homogeneous		98% Non-fibrous (other)	2% Chrysotile
1186-02D 131005353-0006	2nd Fl; Work Rm - Joint Compound	White Non-Fibrous Homogeneous		98% Non-fibrous (other)	2% Chrysotile
1186-02E 131005353-0007	2nd Fl; Storage off Multi - Joint Compound	White Non-Fibrous Homogeneous		98% Non-fibrous (other)	2% Chrysotile

Initial report from 01/04/2011 13:02:15

Analyst(s)

Kevin Pine (71)

Renaldo Drakes, Laboratory Manager
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. Samples reported as <1% or none data require additional testing by TEM to confirm asbestos quantities. The above test report relates only to the items tested and may not be reproduced in any form without the express approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. It and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. 7 Constitution Way, Suite 107, Woburn MA NVLAP Lab Code 101147-0, CT PH-0315, MA AA000188, RI AAL-107T3 and VT AL357102



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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1186-02F 131005353-0008	2nd Fl; Bathrm 2 - Joint Compound	White Non-Fibrous Homogeneous		98% Non-fibrous (other)	2% Chrysotile
1186-02G 131005353-0009	2nd Fl; Shipping/Garage - Joint Compound	White Non-Fibrous Homogeneous		98% Non-fibrous (other)	2% Chrysotile
1186-03A 131005353-0010	1st Fl; Stack Area - Wall Plaster; White Skim Coat	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
1186-03B 131005353-0011	1st Fl; Stack Area - Wall Plaster; White Skim Coat	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
1186-03C 131005353-0012	1st Fl; Stack Area - Wall Plaster; White Skim Coat	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
1186-04A 131005353-0013	1st Fl; Stack Area - Wall Plaster; Gray Scratch Coat	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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EMSL Proj:
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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1186-04B 131005353-0014	1st Fl; Stack Area - Wall Plaster; Gray Scratch Coat	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
1186-04C 131005353-0015	1st Fl; Stack Area - Wall Plaster; Gray Scratch Coat	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
1186-05A 131005353-0016	2nd Fl; Shipping/Garage - Textured Ceiling Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
1186-05B 131005353-0017	2nd Fl; Shipping/Garage - Textured Ceiling Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
1186-06A 131005353-0018	2nd Fl; Entrance Foyer - Textured Wall Paint	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
1186-06B 131005353-0019	2nd Fl; Entrance Foyer - Textured Wall Paint	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1186-07A 131005353-0020	2nd Fl; Multi Purpose - 2x4 Fissure Dot Susp CT	Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (other)	None Detected
1186-07B 131005353-0021	2nd Fl; Confrence Rm - 2x4 Fissure Dot Susp CT	Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (other)	None Detected
1186-08A 131005353-0022	2nd Fl; Kitchen - 2x4 Scar Pin Hole Susp CT	Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (other)	None Detected
1186-08B 131005353-0023	2nd Fl; Bathrm - 2x4 Scar Pin Hole Susp CT	Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (other)	None Detected
1186-09A 131005353-0024	1st Fl; Stack Area - 12x12 Splined Ceiling Tile	Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (other)	None Detected
1186-09B 131005353-0025	1st Fl; Video Area - 12x12 Splined Ceiling Tile	Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (other)	None Detected
1186-010A 131005353-0026	1st Fl; Video Area - Brown Glue Daub	Brown Non-Fibrous Homogeneous	<1% Fibrous (other)	100% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1186-010B 131005353-0027	1st Fl; Video Area - Brown Glue Daub	Brown Non-Fibrous Homogeneous	<1% Fibrous (other)	100% Non-fibrous (other)	None Detected
1186-011 131005353-0028	2nd Fl; Kitchen - Vinyl Coated CT above Susp CT	Tan Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (other)	None Detected
1186-012A 131005353-0029	1st Fl @ Microfiche - Green 9x9 Floor Tile	Green Non-Fibrous Homogeneous		95% Non-fibrous (other)	5% Chrysotile
1186-012B 131005353-0030	2nd Fl; Coat Rm - Green 9x9 Floor Tile	Green Non-Fibrous Homogeneous		95% Non-fibrous (other)	5% Chrysotile
1186-013A 131005353-0031	1st Fl @ Microfiche - Black Mastic a/w 012A	Black Non-Fibrous Homogeneous		90% Non-fibrous (other)	10% Chrysotile
1186-013B 131005353-0032	2nd Fl; Coat Rm - Black Mastic a/w 012B	Black Non-Fibrous Homogeneous		90% Non-fibrous (other)	10% Chrysotile

Initial report from 01/04/2011 13:02:15

Analyst(s)
Kevin Pine (71)

Renaldo Drakes, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. 7 Constitution Way, Suite 107, Woburn MA NVLAP Lab Code 101147-0, CT PH-0315, MA AA000188, RI AAL-107T3 and VT AL357102



EMSL Analytical, Inc.

7 Constitution Way, Suite 107, Woburn, MA 01801

Phone: (781) 933-8411 Fax: (781) 933-8412 Email: bostonlab@emsl.com

Attn: **Rick Bowen**
FLI Environmental, Inc.
858 Washington Street
Suite 50
Dedham, MA 02026

Customer ID: FLIE62
Customer PO:
Received: 12/29/10 11:30 AM
EMSL Order: 131005353

Fax: (781) 251-0901 Phone: (781) 251-0040
Project: 10-1186 / Stoughton Public Library; 84 Park Street;
Stoughton, MA

EMSL Proj:
Analysis Date: 1/4/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1186-014A 131005353-0033	1st Fl @ Microfiche - Brown 4" Covebase	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
1186-014B 131005353-0034	2nd Fl; Multi Purpose Rm - Brown 4" Covebase	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
1186-015A 131005353-0035	1st Fl @ Microfiche - Brown Mastic a/w 014A	Brown Non-Fibrous Homogeneous	<1% Fibrous (other)	100% Non-fibrous (other)	None Detected
1186-015B 131005353-0036	2nd Fl; Multi Purpose Rm - Brown Mastic a/w 014B	Brown Non-Fibrous Homogeneous	<1% Fibrous (other)	100% Non-fibrous (other)	None Detected
1186-016A 131005353-0037	2nd Fl Secretary's Office - Gray Carpet Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
1186-016B 131005353-0038	2nd Fl; Corridor - Gray Carpet Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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EMSL Proj:
Analysis Date: 1/4/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1186-017 131005353-0039	2nd Fl; Kitchen - Tan Sink Undercoating	Yellow Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
1186-018A 131005353-0040	1st Fl; Stack Area - Interior Window Glazing	Gray Non-Fibrous Homogeneous		90% Non-fibrous (other)	10% Chrysotile
1186-018B 131005353-0041	1st Fl; Stack Area - Interior Window Glazing	Gray Non-Fibrous Homogeneous		90% Non-fibrous (other)	10% Chrysotile
1186-019 131005353-0042	Main Stairs - Brown Stair Tread	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
1186-020 131005353-0043	Main Stairs - Yellow Adhesive	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
1186-021A 131005353-0044	2nd Fl; Shipping/Garage - White Expansion Joint Caulk	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
1186-021B 131005353-0045	2nd Fl; Coat Rm - White Expansion Joint Caulk	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Initial report from 01/04/2011 13:02:15

Analyst(s)

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7 Constitution Way, Suite 107, Woburn, MA 01801

Phone: (781) 933-8411 Fax: (781) 933-8412 Email: bostonlab@emsl.com

Attn: **Rick Bowen**
FLI Environmental, Inc.
858 Washington Street
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Dedham, MA 02026

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EMSL Proj:
Analysis Date: 1/4/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1186-022 131005353-0046	2nd Fl; Coat Rm - Sound,Dampening Panel	Tan Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (other)	None Detected
1186-023 131005353-0047	2nd Fl; Coat Rm - Brown Adh a/w 022	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
1186-024A 131005353-0048	Boiler Rm - Hard Fitting on FG Insul Pipe	Gray Fibrous Homogeneous	30% Min. Wool	70% Non-fibrous (other)	None Detected
1186-024B 131005353-0049	Boiler Rm - Hard Fitting on FG Insul Pipe	Gray Fibrous Homogeneous	30% Min. Wool	70% Non-fibrous (other)	None Detected
1186-024C 131005353-0050	Boiler Rm - Hard Fitting on FG Insul Pipe	Gray Fibrous Homogeneous	30% Min. Wool	70% Non-fibrous (other)	None Detected
1186-024D 131005353-0051	1st Fl; Safe Rm - Hard Fitting on FG Insul Pipe	Gray Fibrous Homogeneous	30% Min. Wool	70% Non-fibrous (other)	None Detected
1186-024E 131005353-0052	2nd Fl; Shipping/Garage - Hard Fitting on FG Insul Pipe	Gray Fibrous Homogeneous	30% Min. Wool	70% Non-fibrous (other)	None Detected

Initial report from 01/04/2011 13:02:15

Analyst(s)

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EMSL Proj:
Analysis Date: 1/4/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos			Asbestos
			%	Fibrous	% Non-Fibrous	% Type
1186-025A 131005353-0053	Boiler Rm - Mudded Flange End	Gray Fibrous Homogeneous	30%	Min. Wool	70% Non-fibrous (other)	None Detected
1186-025B 131005353-0054	Boiler Rm - Mudded Flange End	Gray Fibrous Homogeneous	30%	Min. Wool	70% Non-fibrous (other)	None Detected
1186-025C 131005353-0055	2nd Fl; Shipping/Garage - Mudded Flange End	Gray Fibrous Homogeneous	30%	Min. Wool	70% Non-fibrous (other)	None Detected
1186-026 131005353-0056	Boiler Rm - Flue Packing	Gray Non-Fibrous Homogeneous			80% Non-fibrous (other)	20% Chrysotile
1186-027 131005353-0057	Boiler Rm - Brick Inside Incinerator	Gray Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
1186-028 131005353-0058	Exterior - Tectum Board	Gray Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
1186-029A 131005353-0059	Exterior - Textured Skim on Concrete Column	Gray Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected

Initial report from 01/04/2011 13:02:15

Analyst(s)

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EMSL Proj:
Analysis Date: 1/4/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1186-029B 131005353-0060	Exterior - Textured Skim on Concrete Column	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
1186-030 131005353-0061	Exterior; Front Entrance - Caulking @ Base of Alum Windows	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
1186-031 131005353-0062	Exterior; Front Entrance - Caulking; Metal to Masonry	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
1186-032 131005353-0063	Exterior; Front Entrance - Caulking; Metal to Metal	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
1186-033A 131005353-0064	Exterior - Window/Beam Caulking	Gray Non-Fibrous Homogeneous		95% Non-fibrous (other)	5% Chrysotile
1186-033B 131005353-0065	Exterior - Window/Beam Caulking	Gray Non-Fibrous Homogeneous		95% Non-fibrous (other)	5% Chrysotile

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Phone: (781) 933-8411 Fax: (781) 933-8412 Email: bostonlab@emsl.com

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Fax: (781) 251-0901 Phone: (781) 251-0040
Project: 10-1186 / Stoughton Public Library; 84 Park Street;
Stoughton, MA

EMSL Proj:
Analysis Date: 1/4/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos			Asbestos
			%	Fibrous	% Non-Fibrous	% Type
1186-034A 131005353-0066	Roof; Main - Base Sheet & Tar	Black Fibrous Heterogeneous	10%	Cellulose	90% Non-fibrous (other)	None Detected
1186-034B 131005353-0067	Roof; Main - Base Sheet & Tar	Black Fibrous Heterogeneous	10%	Cellulose	90% Non-fibrous (other)	None Detected
1186-034C 131005353-0068	Roof; Lower - Base Sheet & Tar	Black Fibrous Heterogeneous	10%	Cellulose 5% Glass	85% Non-fibrous (other)	None Detected
1186-034D 131005353-0069	Roof; Atrium/V - Base Sheet & Tar	Black Fibrous Heterogeneous	10%	Cellulose	90% Non-fibrous (other)	None Detected
1186-035A 131005353-0070	Roof; Main - Flashing on Curbing	Black Non-Fibrous Homogeneous	20%	Cellulose	70% Non-fibrous (other)	10% Chrysotile
1186-035B 131005353-0071	Roof; Main - Flashing on Wall beneath Window	Black Non-Fibrous Homogeneous			95% Non-fibrous (other)	5% Chrysotile

Initial report from 01/04/2011 13:02:15

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FLI Environmental

131005353

858 Washington Street • Dedham • MA • 02026

(781) 251-0040

fax (781) 251-0901

SAMPLE CHAIN OF CUSTODY RECORD

Stop on First Positive (Positive Stop)

FLI Project #: 10-1186

Client: STOUGHTON PUBLIC LIBRARY

Date: 12-15-10

Location: 84 PAUL STREET, STOUGHTON, MA

Sampled by: RICK BOWEN

Sample #	Location	Material	Asbestos Analysis		
			PLM	TEM	Point Count
1 1186-01A	1 ST FLOOR, VIDEO AREA	GYPSUM WALLBOARD			
2 -01B	2 ND FLOOR, SHIPPING/GARAGE	↓			
3 -02A	1 ST FLOOR, WALL CHASE	JOINT COMPOUND			
4 -02B	2 ND FLOOR, COAT ROOM	↓			
5 -02C	2 ND FLOOR, BATHROOM 1	↓			
6 -02D	2 ND FLOOR, WORK ROOM	↓			
7 -02E	2 ND FLOOR, STORAGE OFF MULT.	↓			
8 -02F	2 ND FLOOR, BATHROOM 2	↓			
9 -02G	2 ND FLOOR, SHIPPING/GARAGE	↓			
10 -03A	1 ST FLOOR, STACK AREA	WALL PASTER, SKIN COAT			
11 -03B	↓	↓			
12 -03C	↓	↓			
13 -04A	↓	WALL PASTER, GRAY SCRATCH COAT			
14 -04B	↓	↓			
15 -04C	↓	↓			
16 -05A	2 ND FLOOR, SHIPPING/GARAGE	TEXTURED CEILING PASTER			
17 -05B	↓	↓			
18 -06A	2 ND FLOOR, ENTRANCE FOYER	TEXTURED WALL PAINT			
19 -06B	↓	↓			
20 -07A	2 ND FLOOR, MULTI PURPOSE	2x4' FISSURE-DOT SUSP. CF.			

Relinquished by: Rick Bowen 12-24-10
Date/Time

Turnaround: Rush 24-Hr 48-Hr

Received by: **RECEIVED**
Date/Time

3-Day 4-Day 5-Day

Relinquished by: DEC 29 2010
Date/Time

Date Needed
TUESDAY, 1-4-11

Received by: BY: SA 1130
Date/Time



131005353

858 Washington Street • Dedham • MA • 02026 (781) 251-0040 fax (781) 251-0901

2

FLI Environmental

SAMPLE CHAIN OF CUSTODY RECORD

Stop on First Positive (Positive Stop)

FLI Project #: 10-1186

Client: STOUGHTON PUBLIC LIBRARY

Date: 12-15-10

Location: 84 PARK STREET, STOUGHTON, MA

Sampled by: DICK POWERS

Sample #	Location	Material	Asbestos Analysis		
			PLM	TEM	Point Count
1 1186-07B	2ND FLOOR, CONFERENCE ROOM	2'x4' FISSURE-DET SUSP. C.T.			
2 -08A	2ND FLOOR, KITCHEN	2'x4' SCAL-PINKHOLE SUSP.C.T.			
3 -08B	2ND FLOOR, BATHROOM	↓			
4 -09A	1ST FLOOR, STACK AREA	12'x12" SPLINED CEILING TILE			
5 -09B	1ST FLOOR, VIDEO AREA	↓			
6 -010A	1ST FLOOR, VIDEO AREA	POROWN GLUE DAUB			
7 -010B	↓	↓			
8 -011	2ND FLOOR, KITCHEN	VINYL-COATED CEILING TILE, ABOVE SUSP. CT.			
9 -012A	1ST FLOOR, @ MICROFICHE	GREEN 9'x9" FLOOR TILE			
-012B	2ND FLOOR, COAT ROOM	↓			
10 -013A	1ST FLOOR, @ MICROFICHE	POROWN MASTIC ASSOC. W/012A			
11 -013B	2ND FLOOR, COAT ROOM	↓ w/012B			
12 -014A	1ST FLOOR, @ MICROFICHE	POROWN 4" CONE BASE			
13 -014B	2ND FLOOR, MULTI-PURPOSE RM	↓			
14 -015A	1ST FLOOR, @ MICROFICHE	POROWN MASTIC ASSOC. W/014A			
15 -015B	2ND FLOOR, MULTIPURPOSE RM	↓ w/014B			
16 -016A	2ND FLOOR, SECRETARY'S OFFICE	GRAY CARPET MASTIC			
17 -016B	2ND FLOOR, CORRIDOR	↓			
18 -017	2ND FLOOR, KITCHEN	TAN SINK UNDERCOATING			
19 -018A	1ST FLOOR, STACK AREA	INTERIOR WINDOW GLAZING			

Relinquished by:

Turnaround: Rush 24-Hr 48-Hr

Received by: **RECEIVED** Date/Time

3-Day 4-Day 5-Day

Relinquished by: DEC 29 2010 Date/Time

Date Needed

Received by: BY: SA 1130 Date/Time

Date/Time



131005353

3)

FLI Environmental

SAMPLE CHAIN OF CUSTODY RECORD

Stop on First Positive (Positive Stop)

FLI Project #: 10-1186

Client: STOUGHTON PUBLIC LIBRARY

Date: 12-15-10

Location: 84 PARK STREET, STOUGHTON, MA

Sampled by: RICK LAWREN

Sample #	Location	Material	Asbestos Analysis		
			PLM	TEM	Point Count
41	1 ST FLOOR, STACK AREA	INTERIOR WINDOW GLASS			
42	-019 MAIN STAIRS	PORON STAIR TREAD			
43	-020 ↓	YELLOW ADHESIVE			
44	-021A 2 ND FLOOR, SHIPPING/GARAGE	WHITE EXPANSION JOINT CAULK			
45	-021B 2 ND FLOOR, COAT ROOM	↓			
46	-022 2 ND FLOOR, COAT ROOM	SOUND DAMPENING PANEL			
47	-023 ↓	PORON ADHESIVE ASSO. W/OZZ			
48	-024A BOILER ROOM	HARD FITTING ON FG. INSUL PIPE			
49	-024B ↓				
50	-024C ↓				
51	-024D 1 ST FLOOR, SAFE ROOM				
52	-024E 2 ND FLOOR, SHIPPING/GARAGE	↓			
53	-025A BOILER ROOM	MUDDY FLANGE END			
54	-025B ↓				
55	-025C 2 ND FLOOR SHIPPING/GARAGE	↓			
56	-026 BOILER ROOM	FLUE PACKING			
57	-027 ↓	POREX INSIDE INCINERATOR			
58	-028 EXTERIOR	TECTUM BOARD			
59	-029A ↓	TEXTURED SKIN ON CONCRETE COLUMN			
60	-029B ↓	↓			

Relinquished by:

Turnaround: Rush 24-Hr 48-Hr

Received by:

RECEIVED

Date/Time

3-Day 4-Day 5-Day

Relinquished by:

DEC 29 2010

Date/Time

Received by:

BY: SU 1130

Date/Time

Date/Time

Date Needed

**PAINT CHIP ANALYSIS
FOR LEAD**



EMSL Analytical, Inc.

3 Cooper St., Westmont, NJ 08108

Phone: (856) 858-4800 Fax: (856) 858-9561 Email: westmontleadlab@emsl.com

Attn: **Rick Bowen**
FLI Environmental, Inc.
858 Washington Street
Suite 50
Dedham, MA 02026

Customer ID: FLIE62
Customer PO:
Received: 12/30/10 10:24 AM
EMSL Order: 201100026

Fax: (781) 251-0901 Phone: (781) 251-0040

Project: 10-1186 Stoughton Public Library

EMSL Proj:

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B*17000B)

Client Sample Description	Lab ID	Collected	Analyzed	Lead Concentration
01 PB Site: 1st Floor, Paint on Steel Column	0001	1/3/2011	1/4/2011	0.25 % wt
02 PB Site: 1st Floor, Paint on Concrete Wall	0002	1/3/2011	1/4/2011	<0.011 % wt
03 PB Site: 2nd Floor, Yellow Original Paint on Plaster	0003	1/3/2011	1/4/2011	<0.022 % wt
04 PB Site: 2nd Floor, Door Frame @ Workroom	0004	1/3/2011	1/4/2011	0.17 % wt
05 PB Site: 2nd Floor, Door Frame, Garage	0005	1/3/2011	1/4/2011	0.039 % wt
06 PB Site: 2nd Floor, Brown Paint on Balusters	0006	1/3/2011	1/4/2011	1.8 % wt

Initial report from

Shannon Kauffman, Lead Lab Supervisor
or other approved signatory

Reporting limit is 0.01 % wt. The QC data associated with these sample results included in this report meet the method quality control requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities.

* slight modifications to methods applied Samples received in good condition unless otherwise noted. Quality Control Data associated with this sample set is within acceptable limits, unless otherwise noted

Samples analyzed by EMSL Analytical, Inc. 3 Cooper St., Westmont NJ NJ-NELAP: 04653, AIHA-LAP, LLC. ELLAP Accreditation 100194



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

2110026

Company: FII ENVIRONMENTAL, INC.
 Street: 858 WASHINGTON ST.
 City: DEDHAM State/Province: MA Zip/Postal Code: 02026 Country:
 Report To (Name): RICK BOWEN Fax #:
 Telephone #: 781-254-0847 Email Address: rbowen@fii-environmental.com
 Project Name/Number: 10-1186 SToughton Public Library
 Please Provide Results: Fax Email Purchase Order: U.S. State Samples Taken:

Turnaround Time (TAT) Options* - Please Check
 3 Hour 6 Hour 24 Hour 48 Hour 72 Hour 96 Hour 1 Week 2 Week
*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> mg/cm ² <input checked="" type="checkbox"/> % by wt.	SW846-7000B/7420 or AOAC 974.02	Flame Atomic Absorption	0.01%	<input checked="" type="checkbox"/>
	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
Air	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES	0.5 µg/filter	<input type="checkbox"/>
	Wipe* <input type="checkbox"/> ASTM <input type="checkbox"/> non ASTM <small>*If no box is checked, non-ASTM Wipe is assumed</small>	SW846-7000B/7420	Flame Atomic Absorption	10 µg/wipe
TCLP	SW846-6010B or C	ICP-AES	0.5 µg/wipe	<input type="checkbox"/>
	SW846-1311/7420/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
	SW846-7000B/7420	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-7421	Graphite Furnace AA	0.3 mg/kg (ppm)	<input type="checkbox"/>
Wastewater	SW846-6010B or C	ICP-AES	1 mg/kg (ppm)	<input type="checkbox"/>
	SM3111B or SW846-7000B/7420	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
Drinking Water	SW846-6010B or C	ICP-AES	1 mg/kg (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>

Other: Preservation Method (Water):

Name of Sampler: Signature of Sampler:

Sample #	Location	Volume/Area	Date/Time Sampled
01 PB	1 st FLOOR, PAINT ON STEEL COLUMN		
02 PB	1 st FLOOR, PAINT ON CONCRETE WALL		
03 PB	2 nd FLOOR, YELLOW ORIGINAL PAINT ON PLASTER		
04 PB	2 nd FLOOR, DOOR FRAME @ WORKROOM		
05 PB	2 nd FLOOR, DOOR FRAME, GARAGE		
06 PB	2 nd FLOOR, BROWN PAINT ON BALUSTERS		

Client Sample #'s: Total # of Samples: 6

Relinquished (Client): Victoria Bowen Date: 12-27-10 Time:
 Received (Lab): Indy Date: 12/31/10 Time: 1074 hr

Comments: RESULTS BY WEDNESDAY, JANUARY 5, 2011

RECEIVED
 DEC 29 2010
 BY: SA 1139

RADON ANALYSIS

NEHA NRPP 101193 AL
NRSB ARL0017

EPA Method #402-R-92-004
Liquid Scintillation
NEHA Device Code 8088
NRSB Device Code 12193

Laboratory Report For

Property Tested

FLI Environmental-R. Bowen
858 Washington Street
Dedham MA 02026

Stoughton Public Library
84 Park Street
Stoughton MA 02072

Log Number	Device Number	Area Tested	Result (pCi/L)
1217614	2189397	Ground Floor On Slab	6.0

Radon test results are above the EPA action level of 4 pCi/L. The EPA recommends that action be taken to reduce radon levels if the result is 4 pCi/L or higher in a livable area. If the property tested uses water from a private well, you may wish to consider testing for radon in water.

Comment: A copy of this report was emailed to rbowen@fli-environmental.com

Distributed By: FLI Environmental

Test Began:	12/21/2010	1:00 pm	Date Received:	12/29/2010
Test Ended:	12/23/2010	1:10 pm	Date Analyzed:	12/29/2010
Test Exposure Duration	48.2	Hours	Date Reported:	12/30/2010

Report Reviewed By: A. Masarik Report Approved By: Carolyn K. Allen
Carolyn K. Allen President, AccuStar Labs

Disclaimer:

The uncertainty of this radon measurement is +/- 10 %. Factors contributing to uncertainty include, statistical variations, daily and seasonal variations in radon concentrations, sample collection techniques, and operation of the dwelling. Interference with test conditions may influence the test results.

This report may only be transferred to a third party in its entirety. Analytical results relate to the samples AS RECEIVED BY THE LABORATORY. Results shown on this report represent levels of radon gas measured between the dates shown in the room or area of the site identified above as "Property Tested". Incorrect information will affect results. The results may not be construed as either predictive or supportive of measurements conducted in any area of this structure at any other time. AccuStar Labs, its employees and agents are not responsible for the consequences of any action taken or not taken based upon the results reported or any verbal or written interpretation of the results.

FLI CERTIFICATIONS

Commonwealth of Massachusetts

Division of Occupational Safety

Heather E. Rowe, Acting Commissioner

Asbestos Designer



RICHARD K. BOWEN

Eff. Date 09/24/10

Exp. Date 09/23/11

AD061044

Member of C.O.N.E.S.

WN

11



WN-REN



Commonwealth of Massachusetts

Division of Occupational Safety

Heather E. Rowe, Acting Commissioner

Asbestos Management Planner



RICHARD K. BOWEN

Eff. Date 09/24/10

Exp. Date 09/23/11

AP061044

Member of C.O.N.E.S.

WN

11



WN-REN



Commonwealth of Massachusetts

Division of Occupational Safety

Heather E. Rowe, Acting Commissioner

Asbestos Inspector



RICHARD K. BOWEN

Eff. Date 09/24/10

Exp. Date 09/23/11

AI061044

Member of C.O.N.E.S.

WN

11



WN-REN



Commonwealth of Massachusetts

Division of Occupational Safety

Heather E. Rowe, Acting Commissioner

Asbestos Project Monitor



RICHARD K. BOWEN

Eff. Date 09/24/10

Exp. Date 09/23/11

AM061044

Member of C.O.N.E.S.

WN

11



WN-REN



LAB CERTIFICATIONS



**National Voluntary
Laboratory Accreditation Program**



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

EMSL Analytical, Inc.
7 Constitution Way, Suite 107
Woburn, MA 01801
Mr. Steven Grise
Phone: 781-933-8411 Fax: 781-933-8412
E-Mail: sgrise@emsl.com
URL: <http://www.emsl.com>

BULK ASBESTOS FIBER ANALYSIS (PLM)

NVLAP LAB CODE 101147-0

NVLAP Code Designation / Description

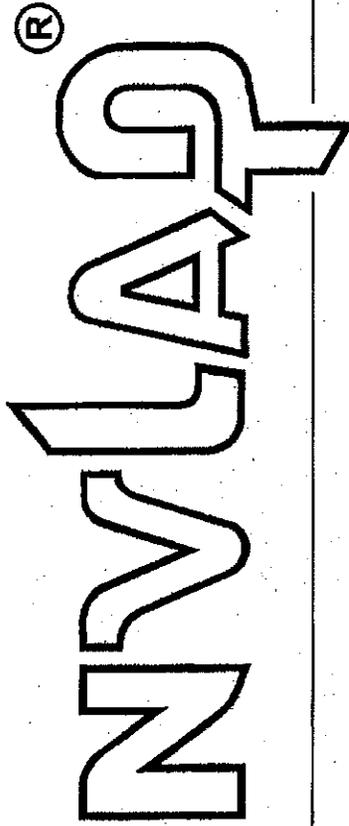
18/A01 EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

2010-07-01 through 2011-06-30

Effective dates

Sally J. Bruce
For the National Institute of Standards and Technology

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101147-0

EMSL Analytical, Inc.
Woburn, MA

is accredited by the *National Voluntary Laboratory Accreditation Program* for specific services,
listed on the *Scope of Accreditation*, for:

BULK ASBESTOS FIBER ANALYSIS

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).*

2010-07-01 through 2011-06-30

Effective dates



Jolly A. Bruce
For the National Institute of Standards and Technology

AIHA

Laboratory Accreditation
Programs, LLC

AIHA Laboratory Accreditation Programs, LLC

acknowledges that

EMSL Analytical Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Laboratory ID: 100194

has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC thereby conforming to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories*. The above named laboratory, along with all premises from which key activities are performed, as listed above, have been accredited by AIHA-LAP, LLC in the following:

LABORATORY ACCREDITATION PROGRAMS

- ✓ INDUSTRIAL HYGIENE Accreditation Expires: July 01, 2012
- ✓ ENVIRONMENTAL LEAD Accreditation Expires: July 01, 2012
- ✓ ENVIRONMENTAL MICROBIOLOGY Accreditation Expires: July 01, 2012
- FOOD Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached Scope of Accreditation. Continued accreditation is contingent upon successful on-going compliance with AIHA-LAP, LLC requirements. This certificate is not valid without the attached Scope of Accreditation. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current scope of accreditation.



Dave Sandusky, CIH
Chairperson, Analytical Accreditation Board

Date Issued: 07/01/2010

AIHA

Laboratory Accreditation
Programs, LLC

AIHA Laboratory Accreditation Programs, LLC SCOPE OF ACCREDITATION

EMSL Analytical, Inc.
107 Haddon Avenue, Westmont, NJ 08108

Laboratory ID: 100194
Issue Date: 07/01/2010

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or revocation. A complete listing of currently accredited Environmental Lead laboratories is available on the AIHA-LAP, LLC website at: <http://www.aihaaccreditedlabs.org>

The EPA recognizes the AIHA-LAP, LLC ELLAP program as meeting the requirements of the National Lead Laboratory Accreditation Program (NLLAP) established under Title X of the Residential Lead-Based Paint Hazard Reduction Act of 1992 and includes paint, soil and dust wipe analysis. Air analysis is not included as part of the NLLAP.

Environmental Lead Laboratory Accreditation Program (ELLAP)

Initial Accreditation Date: 01/18/1995

Field of Testing (FoT)	Method	Method Description (for internal methods only)
Airborne Dust	NIOSH 7082	
Paint	EPA SW-846 3050B	
	EPA SW-846 7420	
Settled Dust by Wipe	EPA SW-846 3050B	
	EPA SW-846 7420	
Soil	EPA SW-846 3050B	
	EPA SW-846 7420	

The laboratory participates in the following AIHA-LAP, LLC-approved proficiency testing programs:

- √ Paint
- √ Soil
- √ Settled Dust by Wipe
- √ Airborne Dust

