



NORTHEAST TEST CONSULTANTS

# ASBESTOS MATERIALS INSPECTION

at

8 WENTWORTH STREET  
MECHANICAL ROOM PIPE INSULATION  
&  
2 WALKER STREET  
BASEMENT AREA SPRAY-APPLIED INSULATION and  
PIPE FITTING INSULATION

NTC JOB #12171-2010

Prepared by:

NORTHEAST TEST CONSULTANTS  
587 SPRING STREET  
WESTBROOK, ME 04092

Prepared for:

*Ms. Lee Perkins  
Rice Public Library  
8 Wentworth Street  
Kittery, ME 03904-1799*

July 27, 2010



## NORTHEAST TEST CONSULTANTS

July 27, 2010

Ms. Lee Perkins  
Rice Public Library  
8 Wentworth Street  
Kittery, ME 03904-1799

RE: Asbestos Materials Inspection  
Mechanical Room - Rice Public Library  
NTC Job #12171-2010

Dear Ms. Perkins:

Please find following the information relating to the Asbestos Materials Inspection conducted by *Northeast Test Consultants* on July 22, 2010 at the Rice Public Library located at 8 Wentworth Street in Kittery, Maine.

### PURPOSE

The purpose of this assessment was to characterize current environmental conditions at the site for the presence of asbestos containing thermal system insulations (*pipe covering*) associated with piping located in a Mechanical Room at the site.

An additional assessment also consisted of collecting samples of spray-applied insulation and mudded fittings on fiberglass insulated piping in the 2 Walker Street building for asbestos analysis.

### PROCEDURES

This asbestos materials assessment consisted of visual evaluation and physical collection suspect asbestos insulation materials as encountered.

The collection of suspect asbestos containing building materials was performed in accordance with the *State of Maine Department of Environmental Protection's Asbestos Management Regulations*, Chapter 425, Section 6, Inspection Requirements.

Analysis of collected bulk samples was performed in accordance with the *US Environmental Protection Agency's Method, EPA 600/R93 - 116, Asbestos in Bulk Samples*.

## ASBESTOS INSPECTION & SAMPLING

### 8 WENTWORTH STREET

The materials sampled in the Mechanical Room were comprised of air-o-cell pipe insulation on straight runs of piping and "mudded" insulation material on fittings.

Approximately 45 linear feet of piping on two lines with two mudded fittings are present in the Mechanical Room. These same pipes extend over the suspended ceiling for the adjacent Staff Restroom area for an additional 15 linear feet, totaling approximately 60 linear feet.

### 2 WALKER STREET

Approximately 30 square feet of spray-applied insulation is present on the floor/ decking joists in the Basement.

In the Basement Mechanical Room mudded insulation materials are present on fittings with fiberglass insulated pipe runs. A total of approximately 30 fittings are present in the space.

A total of four (4) samples were collected with all samples requiring analysis due to the fact that they were all dissimilar materials.

Asbestos was only identified in the pipe insulation and mudded fittings for the 8 Wentworth Street Mechanical Room materials sampled.

*Refer to the attached bulk material analysis data sheets for asbestos containing materials identified during this inspection.*

#### ***Limitations***

Any conclusions contained herein are limited by the scope of work performed; no warranty, expressed or implied, is indicated as to any subsurface conditions not specifically noted within this report.

#### ***Explanation of Analysis Methods***

The collected samples were analyzed utilizing Polarized Light Microscopy (PLM) methods.

PLM is a US EPA accepted screening method for asbestos in bulks. This analytical method readily identifies asbestos content quantitatively in the type of matrixes present for the samples collected for this inspection. However, it fails in samples where asbestos fibers are fine or obscured by a tightly binding matrix system.

PLM methods are compiled from standard techniques used in mineralogy and standard laboratory procedures used for asbestos bulk sample analysis. These techniques have been successfully applied to the analysis of US EPA Bulk Sample Analysis Quality Assurance Program since 1982.

## RECOMMENDATIONS

### 2 WALKER STREET

The spray-applied insulation present on the floor/ decking joists in the Basement and the mudded insulation material present on fittings with fiberglass insulated pipe runs in the Basement Mechanical Room **do not** contain asbestos.

These materials can be impacted/removed by any individual.

If dust levels during removal of materials are expected to exceed the OSHA Dust Exposure Limits for both Nuisance & Respiratory Dusts, it is recommended that all persons impacting these materials still be adequately protected from airborne dusts by use of respiratory protection.

Any Demolition/Renovation Project that may cause significant amounts of airborne dusts are a concern, therefore safety measures are essential in order to protect human health and the environment. Any scraping, sanding, cutting, grinding, or demolition of any material should not be performed under dry conditions in which airborne dust can be generated.

### 8 WENTWORTH STREET

The asbestos containing pipe insulation materials (*pipe covering & fittings*) found at the site consist of *friable* materials.

*Friable* materials can be crumbled by hand pressure and readily release asbestos fibers when impacted. Potentially friable materials are materials that can be rendered friable when impacted by demolition/renovation activities. Comparatively, *non-friable* materials do not crumble under hand pressure and do not readily release asbestos fibers to the surrounding atmosphere.

Materials containing greater than 1% of asbestos are regulated under the requirements of OSHA 29 CFR 1910.1001 and 29 CFR 1926.1101, US EPA, and ME DEP.

All work operations which would impact asbestos containing materials would need to be in compliance with the asbestos regulations as set forth in both *OSHA 29 CFR Part 1926.1101*; *US EPA Title 40 – CFR, Part 61 NESHAP, Subparts A and M (General Provisions and Asbestos Standards, respectively)*; & *State of Maine DEP Regulations, Chapter 425, effective 5-29-2004*.

Any removal and/or impact of the identified asbestos containing materials would need to be performed by properly trained and licensed companies and workers.

While onsite performing sampling and inspection activities, *Northeast Test Consultants* applied rewettable lagging cloth to two deteriorating fittings and a section of pipe insulation in the Mechanical Room in order to eliminate potential occupant hazards. *Northeast Test Consultants* also HEPA vacuumed the floor areas located below these insulations.

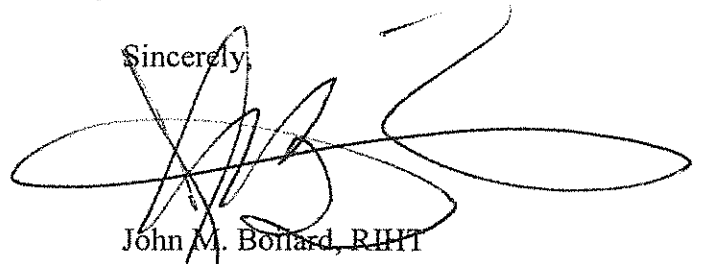
Currently, unless the materials will be disturbed during a renovation or repair to the piping system, the materials can be left in place and should not pose a health hazard to employees or the general public.

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Please review the attached analytical results for the collected bulk samples and photograph log.

Should you have any questions please feel free to give me a call.

Sincerely,

A large, stylized handwritten signature in black ink, appearing to read 'J. Bonnard', is written over the word 'Sincerely,'.

John M. Bonnard, RIHT  
ME DEP DC, AA, AI, AM  
Operations Manager

Attachments



## NORTHEAST TEST CONSULTANTS

July 27, 2010

Ms. Lee Perkins  
Rice Public Library  
8 Wentworth Street  
Kittery, ME 03904-1799

RE: Asbestos Materials Inspection  
Mechanical Room - Rice Public Library  
NTC Job #12171-2010

Dear Ms. Perkins:

Please find enclosed the analysis results for the bulk samples collected on July 22, 2010.

Analysis for the asbestos type and approximate percentage by volume was performed by Optical Microscopy at 100 X magnification utilizing Polarized Light Microscopy (PLM) and dispersion staining techniques.

Should you need any assistance or have any questions regarding the analysis results, please give me a call.

Sincerely,

A handwritten signature in black ink, appearing to read "John M. Boilard", with a large, sweeping flourish extending to the right.

John M. Boilard  
Operations Manager

Attachments



# NORTHEAST TEST CONSULTANTS

587 SPRING STREET  
WESTBROOK, MAINE 04092  
(207) 854-3939

Asbestos Monitoring  
Lead Monitoring  
Indoor Air Quality  
Industrial Hygiene Consultants

## BULK SAMPLE IDENTIFICATION REPORT

Client: Rice Public Library  
8 Wentworth Street  
Kittery, ME 03904

P.O. # NTC Job # Report Date  
072010-03 JM 12171-2010 07/26/2010

NTC Sample #	Field Sample #	Sample Designation	Analysis Result
B0207001-1	B-1	8 Wentworth Street Mechanical Room/ Storage Area Insulation on Piping	<u>GROSS EXAMINATION:</u> Color: <u>Gray</u> Homogeneous <input checked="" type="checkbox"/> Layered

### ASBESTOS TYPE AND PERCENT

Chrysotile 50%

### OTHER FIBROUS COMPONENTS AND PERCENT

Cellulose 30%


### NONFIBROUS MATRIX MATERIALS & PERCENT

[Not Identified] 20%

Analysis Method

Method for the Determination of Asbestos  
in Bulk Insulation Samples EPA 600/R-93/116

This report only refers to the sample analyzed and is not necessarily denotative of the quality or condition of overtly identical or similar products. This report is submitted and approved for the private use of the client to whom it is addressed. It is not to be used, in part or in whole, in any advertising without prior written authorization from NTC. Sample types, locations and collection properties are based upon the information provided by the persons submitting them and, unless collected by NTC personnel, we explicitly disclaim any knowledge and liability for the accuracy of this data. All rights reserved by Northeast Test Consultants, Westbrook, Maine. This analytical report is provided by NTC and does not indicate endorsement by NVLAP or any agency of the U.S. Government.

	Date	Name
Sampled By:	07/22/2010	Brian Cohen
Analyzed By:	07/26/2010	IATL (NVLAP #1165)
Approved By:	07/26/2010	S. Broadhead 



# NORTHEAST TEST CONSULTANTS

587 SPRING STREET  
WESTBROOK, MAINE 04092  
(207) 854-3939

Asbestos Monitoring  
Lead Monitoring  
Indoor Air Quality  
Industrial Hygiene Consultants

## BULK SAMPLE IDENTIFICATION REPORT

Client: Rice Public Library  
8 Wentworth Street  
Kittery, ME 03904

P.O. # NTC Job # Report Date  
072010-03 JM 12171-2010 07/26/2010

NTC Sample #	Field Sample #	Sample Designation	Analysis Result
B0207002- 1	B-2	8 Wentworth Street Mechanical Room/ Storage Room Mudded Fitting	<u>GROSS EXAMINATION:</u> Color: <u>Gray</u> Homogeneous <input checked="" type="checkbox"/> Layered

### ASBESTOS TYPE AND PERCENT

Chrysotile 70%

### OTHER FIBROUS COMPONENTS AND PERCENT

Mineral Wool 10%


### NONFIBROUS MATRIX MATERIALS & PERCENT

[Not Identified] 20%

Analysis Method

Method for the Determination of Asbestos  
in Bulk Insulation Samples EPA 600/R-93/116

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Approved By:	07/26/2010	S. Broadhead 





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WESTBROOK, MAINE 04092  
(207) 854-3939

Asbestos Monitoring  
Lead Monitoring  
Indoor Air Quality  
Industrial Hygiene Consultants

## BULK SAMPLE IDENTIFICATION REPORT

Client: Rice Public Library  
8 Wentworth Street  
Kittery, ME 03904

P.O. #                      NTC Job #                      Report Date  
072010-03 JM    12171-2010                      07/26/2010

NTC Sample #	Field Sample #	Sample Designation	Analysis Result
B0207003- 1	B-3	2 Walker Street Mechanical Room Mudded Fitting	<u>GROSS EXAMINATION:</u> Color: <u>Tan</u> Homogeneous <input checked="" type="checkbox"/> Layered

### ASBESTOS TYPE AND PERCENT

No Asbestos Detected.

### OTHER FIBROUS COMPONENTS AND PERCENT

Mineral Wool                      40%


### NONFIBROUS MATRIX MATERIALS & PERCENT

[Not Identified]                      60%

Analysis Method

Method for the Determination of Asbestos  
in Bulk Insulation Samples EPA 600/R-93/116

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	Date	Name
Sampled By:	07/22/2010	Brian Cohen
Analyzed By:	07/26/2010	IATL (NVLAP #1165)
Approved By:	07/26/2010	S. Broadhead 



**NORTHEAST TEST CONSULTANTS**

587 SPRING STREET  
WESTBROOK, MAINE 04092  
(207) 854-3939

**Asbestos Monitoring**  
**Lead Monitoring**  
**Indoor Air Quality**  
**Industrial Hygiene Consultants**

**BULK SAMPLE IDENTIFICATION REPORT**

Client: Rice Public Library  
8 Wentworth Street  
Kittery, ME 03904

P.O. # NTC Job # Report Date  
072010-03 JM 12171-2010 07/26/2010

NTC Sample #	Field Sample #	Sample Designation	Analysis Result
B0207004- 1	B-4	2 Walker Street Basement Hallway Spray-applied Insulation	<u>GROSS EXAMINATION:</u> Color: <u>White</u> Homogeneous <input checked="" type="checkbox"/> Layered

ASBESTOS TYPE AND PERCENT

No Asbestos Detected.

OTHER FIBROUS COMPONENTS AND PERCENT

Mineral Wool 100%


NONFIBROUS MATRIX MATERIALS & PERCENT

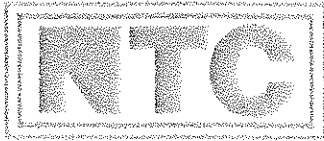
[Not Identified] 0%

Analysis Method

Method for the Determination of Asbestos  
in Bulk Insulation Samples EPA 600/R-93/ 116

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	Date	Name
Sampled By:	07/22/2010	CLIENT
Analyzed By:	07/26/2010	IATL (NVLAP #1165)
Approved By:	07/26/2010	S. Broadhead 

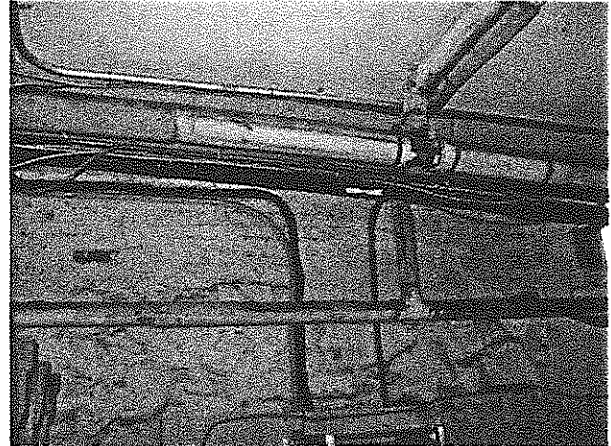


**PHOTOGRAPH LOG**

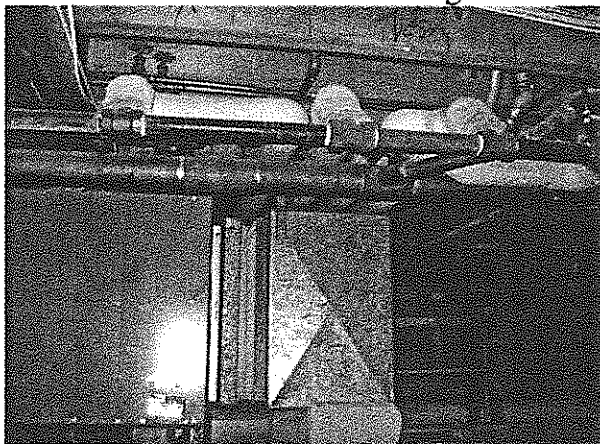
**Rice Public Library  
8 Wentworth St; Kittery, ME**



**Blown-in insulation in Basement Hallway of  
2 Walker Street Building.**



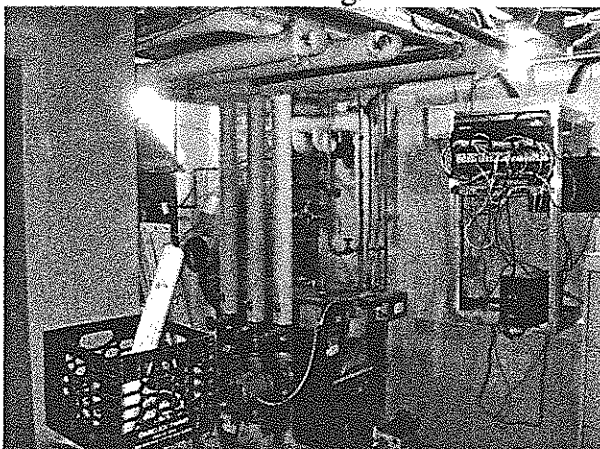
**TSI and mudded elbows located in  
Mechanical Room of Public Library.**



**Mudded elbows on fiberglass lines in  
Basement Hallway of 2 Walker Street  
Building.**



**TSI intersect with Staff Bathroom wall in  
Mechanical Room of Public Library.**



**Mudded elbows, Basement hallway of  
2 Walker Street Building.**

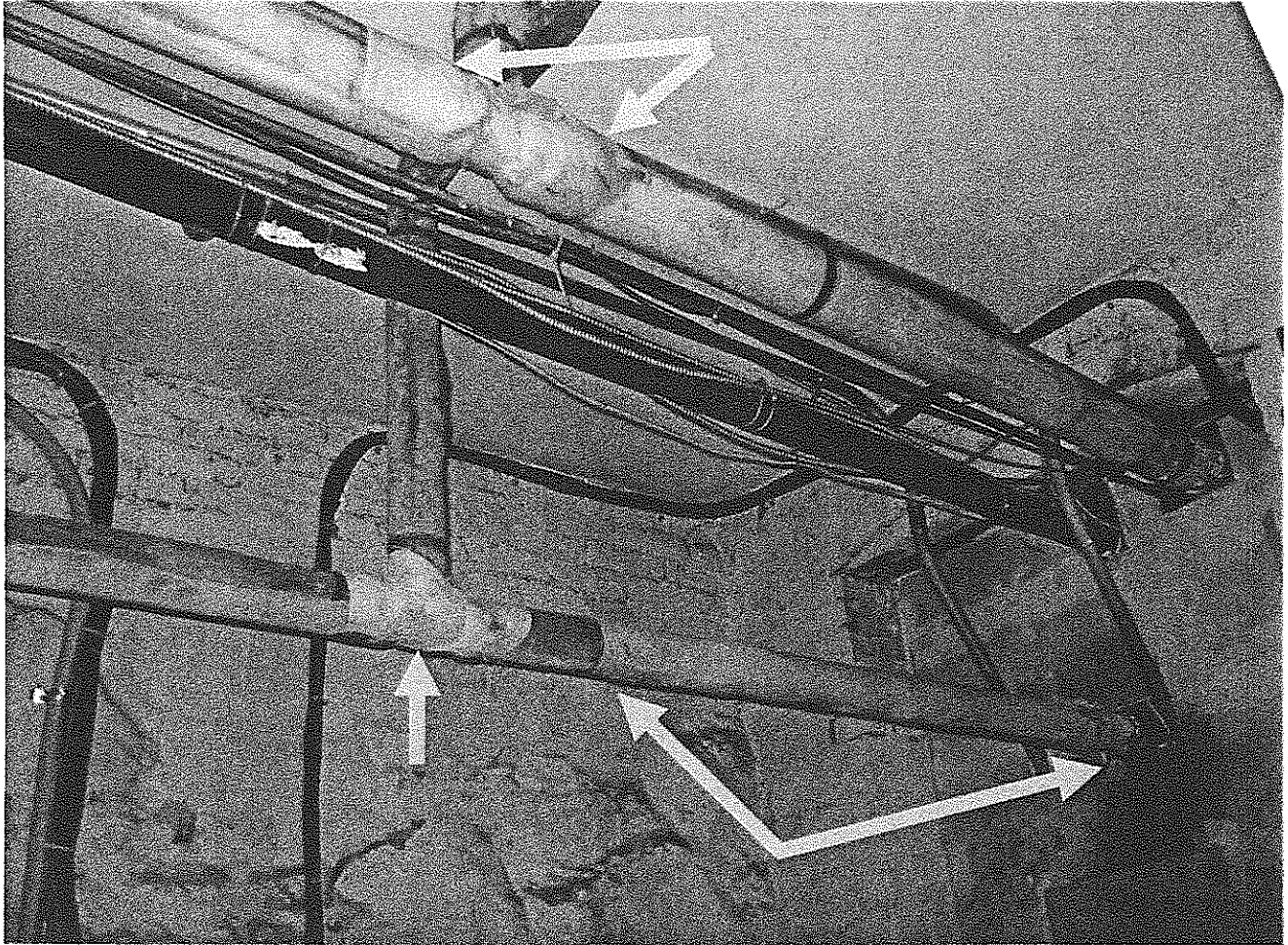


**TSI on pipes in Mechanical Room of Public  
Library.**



## PHOTOGRAPH LOG

**Rice Public Library  
8 Wentworth St; Kittery, ME**



**Cloth repairs of muddied fitting and pipe length in Mechanical Room of Public Library.**



NORTHEAST TEST CONSULTANTS

# ASBESTOS MATERIALS INSPECTION

at

**THERMAL SYSTEM INSULATIONS  
RICE PUBLIC LIBRARY  
8 WENTWORTH STREET  
KITTERY, MAINE**

NTC JOB #13097-2012

Prepared by:

**NORTHEAST TEST CONSULTANTS  
587 SPRING STREET  
WESTBROOK, ME 04092**

Prepared for:

*Ms. Lee Perkins  
Rice Public Library  
8 Wentworth Street  
Kittery, ME 03904-1799*

**June 1, 2012**



## NORTHEAST TEST CONSULTANTS

June 1, 2012

Ms. Lee Perkins  
Rice Public Library  
8 Wentworth Street  
Kittery, Maine 03904-1799

RE: *Asbestos Materials Inspection*  
Rice Public Library  
8 Wentworth Street; Kittery, Maine  
NTC Job #13097-2012

Dear Ms. Perkins:

*Northeast Test Consultants* has completed an **Asbestos Materials Inspection** at the Rice Public Library located at 8 Wentworth Street in Kittery, Maine.

### PURPOSE

This activity was comprised of the assessment, quantification, and layout of thermal system insulations (*pipe covering/fittings*) for the basement through the upper floor areas (1<sup>st</sup> Floor, 2<sup>nd</sup> Floor, and Mezzanine area) by visual inspection and the collection of bulk samples for analysis.

Any conclusions contained herein are limited by the scope of work performed; no warranty, expressed or implied, is indicated as to any subsurface conditions not specifically noted within this report.

### PROCEDURES

On May 21, 2012 representatives of *Northeast Test Consultants* were on-site at the subject property to perform survey & inspection work.

The asbestos materials assessment consisted of visual evaluation and sample collection of suspect asbestos materials encountered by an accredited and certified asbestos inspector.

Brian Cohen, licensed Asbestos Inspector ME #AI-0557, and Rick Medlin, licensed Asbestos Inspector ME #AI-0523, conducted inspection and bulk sampling as needed at the site during this activity.

The collection of suspect asbestos containing building materials was performed in accordance with the *State of Maine Department of Environmental Protection's Asbestos Management Regulations*, Chapter 425, Section 6, Inspection Requirements.

*State of Maine Department of Environmental Protection's Asbestos Management Regulations*, Chapter 425, effective date 4-3-2011 requires analysis of collected samples as follows:

- A. Surfacing materials and thermal system insulation and cementitious materials shall be analyzed using the PLM-EPA 600/R-93/116 visual estimation method (1993).
- B. Non-friable Organically Bound materials (NOB's), including but not limited to floor tiles, asphalt shingles, caulking, glazing, mastics, coatings, sealants, adhesives and glues shall be analyzed using PLM NOB-EPA 600/R-93/116 with gravimetric preparation method.

Bulk sample groups were analyzed until a positive result was obtained or all samples in the group have been analyzed. The *State of Maine* DEP does not require any re-analysis of materials if the sample result is less than 1% by the above PLM Visual and/or PLM NOB methods.

### **ASBESTOS INSPECTION & SAMPLING**

A walkthrough was performed in all accessible areas of the structure comprised of the Basement area, 1<sup>st</sup> Floor, 2<sup>nd</sup> Floor, and Mezzanine area during this inspection and samples of suspect asbestos containing thermal system insulation materials were collected for asbestos analysis.

No suspect thermal system insulations were found to exist for the 1<sup>st</sup> Floor, 2<sup>nd</sup> Floor, or Mezzanine area.

Asbestos pipe insulation debris was observed at two (2) locations. Location 1 is on top of ceiling tiles in Kay Howells Room and Location 2 is on a pipe riser located above the sheetrock ceiling in the Boiler Room.

In general the identified asbestos containing pipe insulations located in the Basement area are in relatively good condition.

Bulk samples of suspect materials that were collected during this event consisted of the following:

- Thermal System Insulations (pipe covering)*
- Thermal System Insulations ("mudded" pipe fittings)*

A total of three (3) samples were collected and analyzed as part of this assessment activity.

Asbestos was identified in the following materials:

<b>Basement Pipe Covering</b>	Sample B-1	<b>75% Chrysotile Asbestos</b>
<b>Basement "Mudded" Fittings</b>	Sample B-2	<b>25% Chrysotile Asbestos</b>
<b>Basement Pipe Covering</b>	Sample B-3	<b>60% Chrysotile Asbestos</b>

*Refer to the attached bulk material analysis data sheets, asbestos materials listing, and marked drawing for location of asbestos materials identified as part of this assessment activity.*

#### ***Explanation of Analysis Methods***

The collected samples were analyzed utilizing Polarized Light Microscopy (PLM) as PLM-EPA 600/R-93/116 Visual Estimation Method (1993) and PLM NOB-EPA 600/R-93/116 with Gravimetric Preparation Method.

PLM is a US EPA accepted screening method for asbestos in bulks. This analytical method readily identifies asbestos content quantitatively. However, it can fail in samples where asbestos fibers are very fine or obscured by a tightly binding matrix system.

PLM methods are compiled from standard techniques used in mineralogy and standard laboratory procedures used for asbestos bulk sample analysis. These techniques have been successfully applied to the analysis of US EPA Bulk Sample Analysis Quality Assurance Program since 1982.

## **RECOMMENDATIONS**

The asbestos containing materials found at the site consist of *friable* materials.

*Friable* materials can be crumbled by hand pressure and readily release asbestos fibers when impacted. Comparatively, *non-friable* materials do not crumble under hand pressure and do not readily release asbestos fibers to the surrounding atmosphere.

Materials containing **greater than 1%** of asbestos are a regulated material under the requirements of OSHA 29 CFR 1910.1001 and 29 CFR 1926.1101, US EPA, and ME DEP.

All work operations which would impact asbestos containing materials would need to be in compliance with the asbestos regulations as set forth in both *OSHA* 29 CFR Part 1926.1101; US EPA Title 40 – CFR, Part 61 NESHAP, Subparts A and M (General Provisions and Asbestos Standards, respectively); & *State of Maine* DEP Regulations, Chapter 425, effective 5-29-2004.



Any impact, removal and/or clean up of the identified asbestos containing materials would need to be performed by properly trained workers.

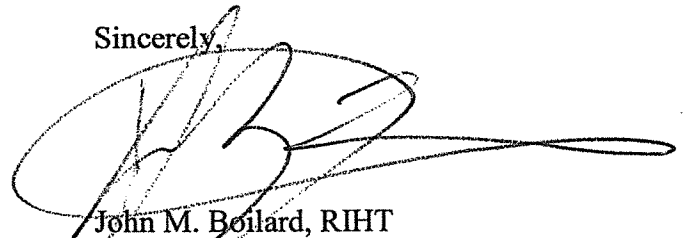
Asbestos containing **Thermal System Insulation Debris** should be **cleaned up as soon as possible** to prevent potential exposure to employees/occupants. Clean up actions need to be performed utilizing engineering controls performed by properly licensed companies with appropriately trained and certified personnel. Generated waste materials must be properly packaged and disposed of as asbestos waste in accordance with US EPA and Maine DEP regulatory requirements for Regulated Asbestos Containing Materials (RACM).

Asbestos containing **Thermal System Insulations** (pipe covering & "mudded" fittings), materials identified should be removed **prior to any demolition/renovation** activities that will cause damage to materials. The abatement is to be performed utilizing engineering controls performed by properly licensed companies with appropriately trained and certified personnel. Generated waste materials must be properly packaged and disposed of as asbestos waste in accordance with US EPA and Maine DEP regulatory requirements for Regulated Asbestos Containing Materials (RACM).

Please review the information within this letter and the attached analytical results, asbestos materials listing, and marked drawing.

Should you have any questions or require any further information relating to this inspection, please feel free to give me a call.

Sincerely,



John M. Boilard, RIHT  
ME DEP DC, AA, AI, AM  
Operations Manager

Attachments



## NORTHEAST TEST CONSULTANTS

June 1, 2012

Ms. Lee Perkins  
Rice Public Library  
8 Wentworth Street  
Kittery, ME 03904-1799

RE: *Asbestos Materials Inspection*  
Rice Public Library  
8 Wentworth Street; Kittery, Maine  
NTC Job #13097-2012

Dear Ms. Perkins:

Please find enclosed the analysis results for the bulk samples collected on May 21, 2012.

Analysis for the asbestos type and approximate percentage by volume was performed by Optical Microscopy at 100 X magnification utilizing Polarized Light Microscopy (PLM) and dispersion staining techniques in accordance with EPA 600/R-93/116 visual method.

Should you need any assistance or have any questions regarding the analysis results, please give me a call.

Sincerely,



Jean M. Boilard, RIHT  
Operations Manager

Attachments



# NORTHEAST TEST CONSULTANTS

587 SPRING STREET  
WESTBROOK, MAINE 04092  
(207) 854-3939

Asbestos Monitoring  
Lead Monitoring  
Indoor Air Quality  
Industrial Hygiene Consultants

## BULK SAMPLE IDENTIFICATION REPORT

Client: Rice Public Library  
8 Wentworth Street  
Kittery, ME 03904

P.O. #                      NTC Job #                      Report Date  
042512-02 JM    13097-2012                      05/24/2012

NTC Sample #	Field Sample #	Sample Designation	Analysis Result
B2142004- 1	B-1	Thermal System Insulation	<u>GROSS EXAMINATION:</u> Color: <u>Gray</u> Homogeneous <input checked="" type="checkbox"/> Layered

### ASBESTOS TYPE AND PERCENT

Chrysotile                      75%

### OTHER FIBROUS COMPONENTS AND PERCENT


Cellulose                      15%

### NONFIBROUS MATRIX MATERIALS & PERCENT

[Not Identified]                      10%

Analysis Method                      Method for the Determination of Asbestos in Bulk Samples PLM EPA 600/R-93/116 (1993) and/or PLM NOB EPA 600/R-93/116 with Gravimetric Reduction ELAP 198.6.

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	Date	Name
Sampled By:	05/21/2012	R. Medlin & B. Cohen
Analyzed By:	05/23/2012	IATL (NVLAP #1165)
Approved By:	05/24/2012	S. Broadhead 



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WESTBROOK, MAINE 04092  
(207) 854-3939

**Asbestos Monitoring**  
**Lead Monitoring**  
**Indoor Air Quality**  
**Industrial Hygiene Consultants**

## BULK SAMPLE IDENTIFICATION REPORT

Client: Rice Public Library  
8 Wentworth Street  
Kittery, ME 03904

P.O. #                      NTC Job #                      Report Date  
042512-02 JM    13097-2012                      05/24/2012

NTC Sample #	Field Sample #	Sample Designation	Analysis Result
B2142005- 1	B-2	Mudded Elbow	<u>GROSS EXAMINATION:</u> Color: <u>Tan</u> Homogeneous <input checked="" type="checkbox"/> Layered

### ASBESTOS TYPE AND PERCENT

Chrysotile                      25%

### OTHER FIBROUS COMPONENTS AND PERCENT

Cellulose                      25%


### NONFIBROUS MATRIX MATERIALS & PERCENT

[Not Identified]                      15%

Analysis Method

Method for the Determination of Asbestos in Bulk Samples PLM EPA 600/R-93/116 (1993) and/or PLM NOB EPA 600/R-93/116 with Gravimetric Reduction ELAP 198.6.

This report only refers to the sample analyzed and is not necessarily denotative of the quality or condition of overtly identical or similar products. This report is submitted and approved for the private use of the client to whom it is addressed. It is not to be used, in part or in whole, in any advertising without prior written authorization from NTC. Sample types, locations and collection properties are based upon the information provided by the persons submitting them and, unless collected by NTC personnel, we explicitly disclaim any knowledge and liability for the accuracy of this data. All rights reserved by Northeast Test Consultants, Westbrook, Maine. This analytical report is provided by NTC and does not indicate endorsement by NVLAP or any agency of the U.S. Government.

	Date	Name
Sampled By:	05/21/2012	R. Medlin & B. Cohen
Analyzed By:	05/23/2012	IATL (NVLAP #1165)
Approved By:	05/24/2012	S. Broadhead 



# NORTHEAST TEST CONSULTANTS

587 SPRING STREET  
WESTBROOK, MAINE 04092  
(207) 854-3939

Asbestos Monitoring  
Lead Monitoring  
Indoor Air Quality  
Industrial Hygiene Consultants

## BULK SAMPLE IDENTIFICATION REPORT

Client: Rice Public Library  
8 Wentworth Street  
Kittery, ME 03904

P.O. #                      NTC Job #                      Report Date  
042512-02 JM    13097-2012                      05/24/2012

NTC Sample #	Field Sample #	Sample Designation	Analysis Result
B2142006- 1	B-3	Thermal System Insulation	<u>GROSS EXAMINATION:</u> Color: <u>Lt. Tan</u> Homogeneous <u>X</u> Layered

### ASBESTOS TYPE AND PERCENT

Chrysotile                      60%

### OTHER FIBROUS COMPONENTS AND PERCENT

Cellulose                      25%

### NONFIBROUS MATRIX MATERIALS & PERCENT

[Not Identified]                      15%

Analysis Method

Method for the Determination of Asbestos in Bulk Samples PLM EPA 600/R-93/116 (1993) and/or PLM NOB EPA 600/R-93/116 with Gravimetric Reduction ELAP 198.6.

This report only refers to the sample analyzed and is not necessarily denotative of the quality or condition of overtly identical or similar products. This report is submitted and approved for the private use of the client to whom it is addressed. It is not to be used, in part or in whole, in any advertising without prior written authorization from NTC. Sample types, locations and collection properties are based upon the information provided by the persons submitting them and, unless collected by NTC personnel, we explicitly disclaim any knowledge and liability for the accuracy of this data. All rights reserved by Northeast Test Consultants, Westbrook, Maine. This analytical report is provided by NTC and does not indicate endorsement by NVLAP or any agency of the U.S. Government.

	Date	Name
Sampled By:	05/21/2012	R. Medlin & B. Cohen
Analyzed By:	05/23/2012	IATL (NVLAP #1165)
Approved By:	05/24/2012	S. Broadhead

# ASBESTOS MATERIALS LISTING

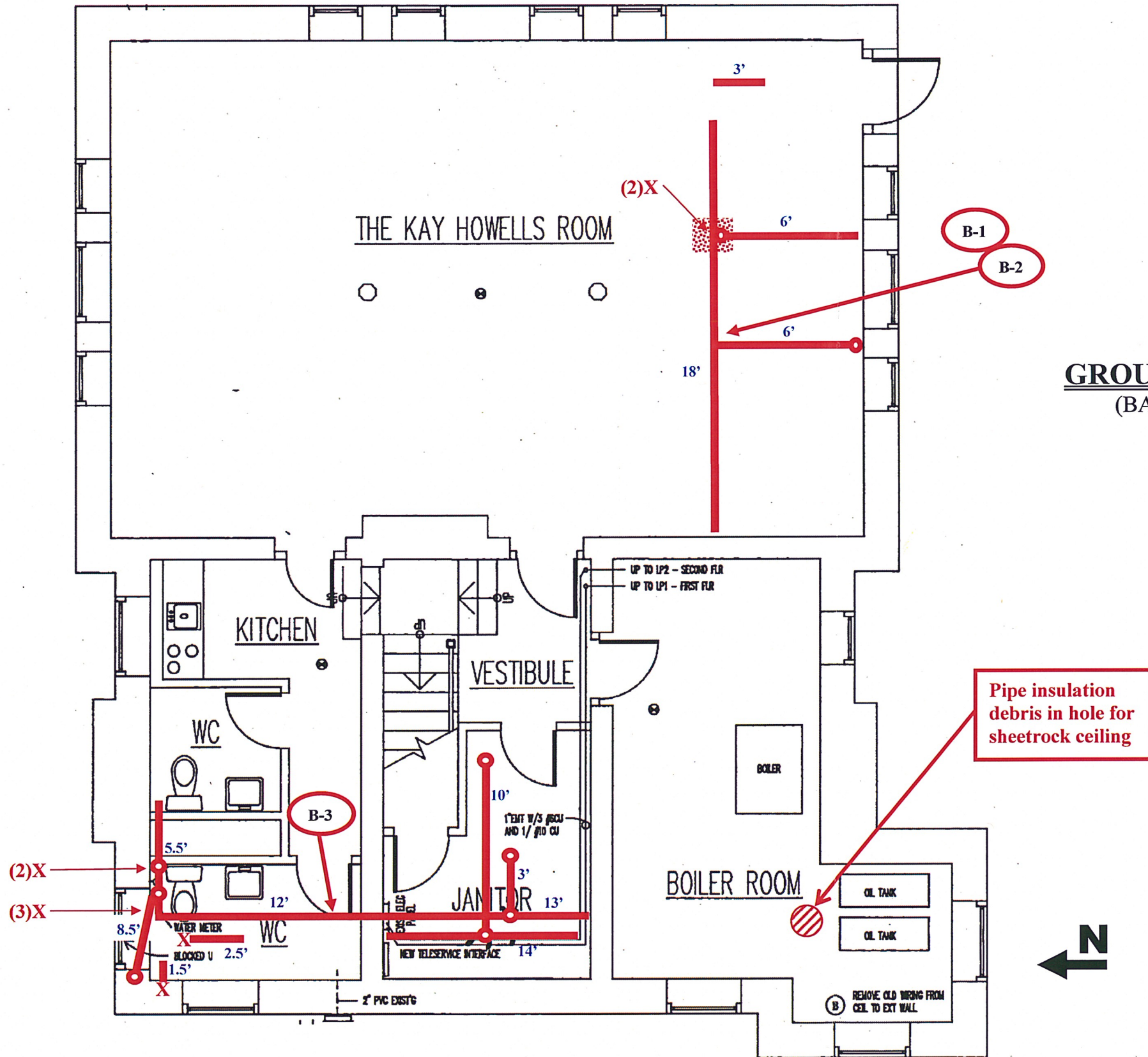
CLIENT: Rice Public Library  
 NTC Job #: 13097-2012  
 PROJECT: 8 Wentworth Street; Kittery, Maine  
 Pipe Insulation Assessment

## LINEAR AND SQUARE FOOTAGE OF ASBESTOS CONTAINING MATERIAL

Homogeneous Area Sampling Location	Functional Space	Associated Field Sample	Fittings	Linear Feet	Remarks
Thermal System Insulation	Restroom	B-1 B-2 B-3	7	30	
Thermal System Insulation	Janitor's Room	B-1 B-2 B-3	4	40	
Thermal System Insulation	The Kay Howells Room	B-1 B-2 B-3	2	33	Debris present on top of ceiling tiles (see drawing)
Thermal System Insulation	Boiler Room	B-1 B-2 B-3		1	Debris present on top of sheetrock ceiling/pipe riser (see drawing)

# ASBESTOS MATERIALS SURVEY

## RICE PUBLIC LIBRARY; 8 WENTWORTH STREET; KITTERY, MAINE



Pipe insulation debris in hole for sheetrock ceiling

**KEY:**

—	ASBESTOS PIPE INSULATION
○	ASBESTOS RISER
X	ASBESTOS FITTING
[Stippled Box]	PIPE FITTING DEBRIS on TOP of CEILING TILE
○ (Red)	BULK SAMPLES POSITIVE for ASBESTOS
○ (Blue)	BULK SAMPLES NEGATIVE for ASBESTOS

NTC

NORTHEAST TEST CONSULTANTS

NTC JOB #13097-2012

DRAWING DATE: 6-1-2012

JMB

DRAWING NOT TO SCALE



NORTHEAST TEST CONSULTANTS

April 12, 2013

Ms. Lee Perkins  
Rice Public Library  
8 Wentworth Street  
Kittery, Maine 03904

RE: Waste Manifests  
NTC Job #'s 13287-2012

Dear Ms. Perkins:

Enclosed please find copies of the Waste Disposal Receipts documenting transportation and receipt of Asbestos Containing Materials to Waste Management of Maine in Portland, Maine.

Please attach these copies to your documentation and reports regarding these projects.

Should you have any questions, please don't hesitate in calling.

Sincerely,

A handwritten signature in black ink, appearing to read "JMB", is written over a large, loopy circular flourish that extends to the right.





John M. Boilard  
Operations Manager

JMB: ccs

Enclosure



# WASTE SHIPMENT RECORD NTC # 13287-2012

GENERATOR	1. Work site (Generator): Name <u>Rice Public Library</u> Mailing Address <u>8 Wentworth St.</u> City/State/Zip <u>Kittery, ME 03904</u>		Owner's Name <u>Ms. Lee Perkins</u>	Owner's telephone no. <u>207-439-1553</u>	
	2. Remover's name and address: <u>Abram Environmental</u> <u>PO Box 2038 Windham, ME 04062</u>			Remover's telephone no. <u>207-892-7045</u>	
	3. Waste Disposal site (WDS): Name <u>Waste Management of ME</u> Mailing Address <u>PO Box 629</u> City/State/Zip <u>Norridgewock, ME 04957</u>		WDS telephone no. <u>800-562-7779</u>	Additional Information:	
	Physical Site Location <u>US Rt. # 12</u> <u>Norridgewock, ME 04957</u>		Profile No. <u>100687ME</u>		
4. Name and address of responsible agency <p style="text-align: center;"><u>MAINE DEP Asbestos Division</u></p>					
5. Description of materials <u>RQ, ASBESTOS, 9, NA2212, III</u> <u>RQ = 1 LB (ONE POUND)</u>		6. Containers No. <u>8</u> Type <u>Bags</u>		7. Total quantity <u>1 yd<sup>3</sup></u>	
8. Special handling instructions and additional information (provided by generator.) * EMERGENCY RESPONSE NUMBER: (800) 645-8265					
9. OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations. NOTE: Generator must retain a copy of this form.					
Printed/typed name & title <u>Colin Beckwith</u>		Signature 		Month Day Year <u>10-15-12</u>	
TRANSPORTER	10. Transporter 1 (Acknowledgement of receipt of materials)				
	Printed/typed name & title <u>Colin Beckwith President</u>		Signature 		Month Day Year <u>10-15-12</u>
	Address and telephone no. <u>PO Box 2038 Windham, ME</u> <u>892-7045</u>				
	11. Transporter 2 (Acknowledgement of receipt of materials)				
Printed/typed name & title <u>Joy Eutebrook</u>		Signature 		Month Day Year <u>3 5 13</u>	
Address and telephone no. <u>2000</u>					
DISPOSAL SITE	12. Discrepancy indication space		Rejected: Yes <input type="checkbox"/> No <input type="checkbox"/>		
	13. Waste disposal site owner or operator: Certification of receipt of asbestos materials covered by this manifest except as noted in item 12.		<u>#162958</u> <u>W 26</u> <u>EL 315</u>		
	Printed/typed name & title <u>Wm. D. M. Papp (Chamberlain) (scaler)</u>		Signature 		Month Day Year <u>3 5 13</u>



NORTHEAST TEST CONSULTANTS

# ASBESTOS ABATEMENT PROJECT

at

**BASEMENT PIPE INSULATIONS  
KAY HOWELL ROOM, RESTROOM, & JANTOR'S ROOM  
RICE PUBLIC LIBRARY  
8 WENTWORTH STREET  
KITTERY, MAINE**

NTC JOB #13287-2012

Prepared by:

**NORTHEAST TEST CONSULTANTS  
587 SPRING STREET  
WESTBROOK, ME 04092**

*Prepared for:*

*Ms. Lee Perkins  
Rice Public Library  
8 Wentworth Street  
Kittery, Maine 03904*

**October 24, 2012**



## NORTHEAST TEST CONSULTANTS

October 24, 2012

Ms. Lee Perkins  
Rice Public Library  
8 Wentworth Street  
Kittery, Maine 03904

RE: Asbestos Abatement Actions  
Rice Public Library  
Pipe Insulation & Fittings  
NTC Job #13287-2012

Dear Ms. Perkins:

Please find attached the project documentation for the Asbestos Abatement Actions conducted by *Northeast Test Consultants* with Abram Environmental, LLC on October 15, 2012 for the Basement Areas of the Rice Public Library located at 8 Wentworth Street in Kittery, Maine.

More specifically, abatement operations were comprised of the proper removal of a total of approximately one hundred two (102) linear feet of asbestos containing thermal system insulations (*pipe covering & fittings*) from the Kay Howell Room, Restroom and Janitor's Room.

Removal of asbestos pipe covering materials was performed within posted asbestos regulated work areas, by the use of multiple glove bag removal techniques with a remote decontamination facility utilizing wet methods, HEPA vacuuming, and proper personal protective equipment.

All work operations were performed in compliance with the asbestos regulations as set forth in both *OSHA* 29 CFR Part 1926.1101; US EPA Title 40 – CFR, Part 61 NESHAP, Subparts A and M (General Provisions and Asbestos Standards, respectively); & *State of Maine* DEP Regulations, Chapter 425, effective 4-3-2011.

During the project, *Northeast Test Consultants* conducted concurrent air sampling inside and outside of the asbestos regulated work areas and performed post abatement activity visual inspection of abated areas so as to ensure compliance with both State and Federal guidelines.

Onsite airborne sample analysis was performed utilizing NIOSH Method #7400 for Phase Contrast Microscopy. A total of four (4) area samples (2 field blanks) were collected and analyzed during this abatement project.

Sampling data showed all collected samples to have airborne levels below the permissible exposure limit of 0.1 fibers per cubic centimeter (<0.1 f/cc) of air as set forth in *OSHA* 29 CFR 1910.1001 and *OSHA* 29 CFR 1926.1101 at the time of sampling.

Area samples collected were also below the *Environmental Protection Agency's* (EPA) criteria of less than 0.01 f/cc for area occupancy after abatement activities.

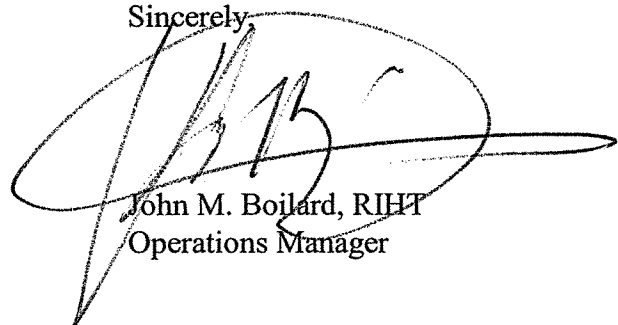
A total of ten (10) bags of asbestos containing waste were generated during this activity. Waste materials were properly packaged and labeled and then transported off-site pending transportation and final disposal at an approved asbestos landfill facility.

This project report includes all analytical data, project daily checklist, field log, visual inspection form, project completion checklist, design plan, and the asbestos project notification paperwork, including revisions submitted to the ME DEP.

Also incorporated with this report is a copy of the generated Waste Manifest with completed information to date. A completed Waste Manifest form will be forwarded to you following final destination and disposition at the landfill facility.

Should you have any questions regarding this report, please give me a call.

Sincerely,

A handwritten signature in black ink, appearing to be 'J. Boilard', is written over a large, faint oval shape. The signature is fluid and cursive.

John M. Boilard, RIHT  
Operations Manager

Attachments



NORTHEAST TEST CONSULTANTS

October 24, 2012

Ms. Lee Perkins  
Rice Public Library  
8 Wentworth Street  
Kittery, Maine 03904

Re: *Asbestos Air Sample Analysis*  
Rice Public Library  
Pipe Insulation & Fittings  
NTC Job #13287-2012

Dear Mr. Mercier:

Please find enclosed the analytical results for the airborne samples collected on October 15, 2012.

Analysis for the numbers of fibers, longer than 5 microns and with an aspect ratio of 3:1 or greater, was performed by Phase Contrast Microscopy (PCM) technique at 400-X magnification. The method of analysis is per the National Institute for Occupational Safety and Health Method #7400, Issue Two, and Dated 08/15/94.

This method (NIOSH Method #7400) is an approved analytical procedure for the American Industrial Hygiene Association – PAT Program for Asbestos Fiber Counting. NIOSH Method #7400 does not differentiate between asbestos and non-asbestos fibers that meet the dimensional criteria of the method.

Should you have any questions regarding the analytical results, please contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "J. Boilard", is written over a large, loopy scribble. Below the signature, the name and title are printed.

John M. Boilard, RIHT  
Operations Manager

Attachments



# NORTHEAST TEST CONSULTANTS

587 SPRING STREET  
WESTBROOK, MAINE 04092  
(207) 854-3939

Indoor Air Quality Management  
Asbestos & Lead Monitoring  
Industrial Hygiene Consultants  
Compliance Training

## AIRBORNE FIBER MONITORING REPORT

Client: Rice Public Library  
8 Wentworth Street  
Kittery, ME 03904

P.O. # NTC Job # Report Date  
13287-2012 10/24/2012

NTC Sample #	Sample Description	Type	Fibers/CC.	Remarks
A2289030	Sampled: 10/15/2012 By: Brian Cohen Analyzed: 10/15/2012 By: Brian Cohen LPM: 0.00 Total Volume: Field/Client Designation: A-1 Basement	Blank	N/A	0 Fibers in 100 Fields
A2289031	Sampled: 10/15/2012 By: Brian Cohen Analyzed: 10/15/2012 By: Brian Cohen LPM: 0.00 Total Volume: Field/Client Designation: A-2 Basement	Blank	N/A	0 Fibers in 100 Fields
A2289032	Sampled: 10/15/2012 By: Brian Cohen Analyzed: 10/15/2012 By: Brian Cohen LPM: 10.00 Total Volume: 2550.0 Field/Client Designation: A-3 Basement Kay Howells Room Inside Regulated Area	Area	< 0.01	

Analysis Method

Unless noted in sample remarks: Analysis by Phase Contrast Microscopy at 400X as per NIOSH Method 7400, Issue 2, August 15, 1994.

This report only refers to the sample analyzed and is not necessarily denotative of the quality or condition of overtly identical or similar products. This report is submitted and approved for the private use of the client to whom it is addressed. It is not to be used, in part or in whole, in any advertising without prior written authorization from NTC. Sample types, locations and collection properties are based upon the information provided by the persons submitting them and, unless collected by NTC personnel, we explicitly disclaim any knowledge and liability for the accuracy of this data. All rights reserved by Northeast Test Consultants, Westbrook, Maine.

Approved By: 10/24/12 S.Broadhead





# NORTHEAST TEST CONSULTANTS

## PROJECT DAILY FIELD LOG

DATE: 10/15/12 TIME: 800 INDUSTRIAL HYGIENIST: BRIAN COHEN  
 PROJECT: RICE LIBRARY - FILTERS; T.S.I. ABATEMENT NTC Job #: 13287-12

<u>CHECK LIST</u>	<u>OK</u>	<u>CHECK ANY DEFICIENCIES</u>	<u>REMARKS</u>
CONTAINMENT BARRIERS .....	<u>N/A</u>	---	<u>ABRAM ENV.</u>
SIGN POSTING AT WORKSITE .....	<u>✓</u>	---	
NUMBER OF CONTRACTOR'S PERSONNEL .....	<u>✓</u>	---	<u>COLIN BECKWITH</u>
CONTRACT SUPERVISION ON SITE .....	<u>✓</u>	---	<u>NTC</u>
HEPA DISCHARGE SAMPLED .....	<u>N/A</u>	---	<u>BRIAN COHEN</u>
▲ PRESSURE MONITOR READOUT .....	<u>N/A</u>	---	
DECONTAMINATION AREA .....	<u>✓</u>	---	
WASTE DOUBLE BAGGED (6 MIL) & LABELED .....	<u>✓</u>	---	
INSPECTIONS BY EPA, DEP, OTHER (SPECIFY) .....	<u>N/A</u>	---	<u>WASTE</u>
PERMITS, NOTIFICATIONS AND SUBMITTALS .....	<u>✓</u>	---	
CLEARANCE AIR TESTS .....	<u>N/A</u>	---	<u>10 BAGS</u>
FINAL AIR TESTS .....	<u>N/A</u>	---	
VISUAL INSPECTION OF WORKPLACE .....	<u>✓</u>	---	

<u>ALL OTHER INFORMATION REGARDING PROJECT EVENTS RECORD BELOW.</u>	
<u>TIME</u>	<u>EVENTS INFORMATION</u>
<u>800</u>	<u>ABRAM ENVIRONMENTAL ON-SITE.</u>
<u>815</u>	<u>LOAD IN EQUIPMENT. BEGIN DECON SET-UP. AREA FOR REMOVAL SET-UP</u>
<u>1130</u>	<u>SET-UP COMPLETE, BREAK</u>
<u>1200</u>	<u>BEGIN REMOVAL</u>
<u>1630</u>	<u>REMOVAL, CLEANING, TIE-DOWN COMPLETE</u>
<u>1845</u>	<u>AE, NTC OFF-SITE</u>

SIGNATURE:





# NORTHEAST TEST CONSULTANTS

Date: 10/15/12  
Page: 1 Initials: BC

## FIELD LOG

Job: RICE PUBLIC LIBRARY; T.S.I. ABATEMENT

Time	Events
800	ABRAM ENVIRONMENTAL ON-SITE. LEE PECKINS UNLOCKS DOOR. WILL RETURN @ 5 P.M. TO RELOCK.
815	LOAD IN EQ. WILL BUILD DECON IN BASEMENT. PLAN TO DO REMOVAL IN "KAY HIWEL'S ROOM" FIRST.
1130	DECON <sup>SETUP</sup> COMPLETE. REMOVAL AREA SET-UPS COMPLETE (DAMP FLOORS, PRE-CLEANING ETC.) WILL HANG GLOVES <del>WHILE SETTING</del> IN BATHROOM <del>AREA</del> JUST PRIOR TO REMOVAL
1200	BEGIN REMOVAL
1600	VISUALS OKAY, REMOVALS COMPLETE, TEAR-DOWN DECON
1630	TEAR-DOWN COMPLETE
1645	NOTIFY STAFF OF DEPARTURE, NTC, & OFF-SITE.



Date: October 15, 2012

## PROJECT COMPLETION CHECKLIST

NTC JOB #: 13222-2012 PROJECT: Basement T.S.I. Abatement

CLIENT: Rice Public Library CONTACT: Lee Perkins

1. Passed Final Visual Inspection; Date: October 15, 2012
2. Clearance Air Sample Results; Range N/A
3. Encapsulant Overspray Excessive: Yes  No  N/A   
If yes, where. \_\_\_\_\_
4. Housekeeping Acceptable? Yes  No
5. Outside Landscaping Acceptable? Yes  No  N/A
6. Waste Storage Dumpster Locked? Yes  No  N/A
7. Number of Bags Disposed? 10
8. Damage due to abatement? Yes  No   
If yes, where. \_\_\_\_\_
9. Contractor Released? Time 1630
10. Keys transferred to building owner? Yes  No  N/A
11. Owner's representative notified of project completion and contractor's departure? Yes  No   
If no, then who. \_\_\_\_\_

Field Notes: Notify library staff.

---

Industrial Hygienist: Brian Cohen



NORTHEAST TEST CONSULTANTS

**DESIGN PLAN**  
for  
**ASBESTOS ABATEMENT**

at

**BASEMENT PIPE INSULATIONS**  
**KAY HOWELL ROOM, RESTROOM, & JANTOR'S ROOM**  
**RICE PUBLIC LIBRARY**  
**8 WENTWORTH STREET**  
**KITTERY, MAINE**

NTC JOB #13287-2012

Prepared by:

**NORTHEAST TEST CONSULTANTS**  
**587 SPRING STREET**  
**WESTBROOK, ME 04092**

*Prepared for:*

*Ms. Lee Perkins*  
*Rice Public Library*  
*8 Wentworth Street*  
*Kittery, Maine 03904*

**October 2, 2012**



**Owner:** RICE PUBLIC LIBRARY

**NTC Job #:** 13287-2012

**Notification by:** Northeast test Consultants  
NOTI#: NTC 13287-2012

**Project:** Basement Areas  
Kay Howell Room, Restroom, & Janitor's Room  
Asbestos Pipe Covering & Fittings

**Designer:** John M. Boilard; ME DC-0260  
Design Consultant

**Scope :**

The following project involves the removal of a total of approximately one hundred two (102) linear feet of asbestos containing thermal system insulations (*pipe covering& fittings*) from the Basement Areas of the Rice Public Library located at 8 Wentworth Street in Kittery, Maine.

More specifically, abatement operations will be conducted in the Kay Howell Room, Restroom, & Janitor's Room.

Removal of asbestos pipe covering materials will be performed by use of multiple glove bag removal techniques with contiguous and/or remote decontamination facility utilizing wet methods, HEPA vacuuming, and proper personal protective equipment.

---

All work operations shall be in compliance with the asbestos regulations as set forth in both OSHA 29 CFR Part 1926.1101; US EPA Title 40 – CFR, Part 61 NESHAP, Subparts A and M (General Provisions and Asbestos Standards, respectively); & State of Maine DEP Regulations, Chapter 425, effective 4-3-2011.

The work specified shall be performed by certified personnel (*State of Maine*) knowledgeable and qualified in the techniques of asbestos abatement including removal, handling and disposal of asbestos material along with subsequent cleaning of asbestos contaminated areas.

All personnel working on the project should have available for review a submittal package, with up-to-date data, consisting of the following: **1)** State Certification, **2)** Medical Monitoring, **3)** Respirator Fit Test, and **4)** Training Certificates.

Any of the Contractor's personnel not having all sections of the submittal package should not be allowed to work on the project.

The Abatement Contractor shall maintain the following additional onsite required documentation:

- a.) This Design Plan (NTC Job #13287-2012, dated 10/2/2012),
- b.) Asbestos Project Notification (#NTC 13287-2012)
- c.) The most recent copy of the ME DEP Asbestos Regulation, Chapter 425,
- d.) Bulk Disclosure forms (*if required*)
- e.) Project Monitoring Disclosure forms (*if required*)

The Contractor shall supply all labor, materials, services, insurance, and equipment necessary to carry out the work in accordance with all applicable Federal, State, and Local Regulations and these Specifications.

*Northeast Test Consultants* will perform Project Oversight, Area Monitoring and Visual Inspection for release of the work areas associated with this project.

# GENERAL REQUIREMENTS

## Part 1 - Responsibilities

### **Owner:**

The Owner will be responsible for providing availability to potable water and electricity to the abatement contractor for these activities.

### **Abatement Contractor:**

The Abatement Contractor shall supply all labor, materials, services, insurance, and other equipment necessary to carry out the asbestos related work operations in accordance with all applicable Federal, State, and Local Regulations and these Specifications.

## Part 2 - Safety Concerns

The use of ground fault circuit interrupter (*GFCI*) outlets is required for electrical equipment.

Step Ladders.

Slips, trips, and falls – poly sheeting drop cloths on floors.

## Part 3 - HEPA Equipped Equipment

Vacuums used for clean-up operations shall be *HEPA* equipped and meet the following requirements:

- i. Vacuum units must be operated in accordance with *US EPA* recommendations set forth in Appendix J of the *US EPA* Guidance Document : EPA 560/5-85-024 (effective June, 1985);
- ii. The intake air tubes must be fiber-tight and securely attached to the *HEPA* vacuum intake port.

## Part 4 - Pre Cleaning

Pre-clean any areas as necessary to install critical barriers or establish drop cloths.

Visible asbestos-containing debris that is present on surfaces upon which the contractor will place polyethylene sheeting to establish any regulated area shall be cleaned up prior to conducting set-up, removal, or repair activities.



## **Part 5 - Critical Barriers**

Install critical barriers consisting of one layer of 6-mil polyethylene sheeting over all windows, doorways, wall penetrations, and all other openings located in the immediate abatement work area when applicable.

Sheeting shall be sealed by utilization of duct tape with spray glue, if necessary.

## **Part 6 - Decontamination Facility**

Utilize the three (3) stage decontamination facility consisting of an equipment room, shower room, and clean room established either contiguous to the work areas or remotely situated as needed.

The shower unit must include an adjustable hot and cold-water mixture valve, hot and cold water, soap, towels, and a mechanism of collecting and containing shower water for treatment with a 5-micron filter prior to discharge.

The clean room must be a minimum of 24 square feet for projects involving 3 or fewer certified individuals entering the regulated area per work shift and a minimum of 32 square feet for all other projects.

The clean room must be a minimum of 24 square feet for projects involving 3 or fewer certified individuals entering the regulated area per work shift and a minimum of 32 square feet for all other projects.

## **Part 7 - Regulation of Work Area**

Establish a regulated work area utilizing "**Asbestos Warning**" barrier tape and *OSHA* warning signs in accordance with *OSHA* 29 CFR 1910.1001 (j)(3) and *OSHA* 29 CFR 1926.1101 (k)(7).

The ME DEP work area shall be demarcated by barrier tape different than that of the OSHA posted area when they are not at the same limits of control.

The regulated work area for both OSHA & ME DEP shall extend as a minimum along the limits of the accessible negative pressure enclosure walls.

## **Part 8 - Asbestos Abatement**

After erecting a functioning decontamination facility and properly isolating the work area by the establishment of a regulated barrier area, OSHA warning signs, and installation of drop cloths, proceed to remove asbestos containing materials identified herein and on the

attached drawings.

All impacted asbestos containing materials must be wetted with water containing a wetting agent.

The asbestos materials must be removed in such a manner as to prevent any visible airborne emissions in accordance with the National Emissions Standard for Hazardous Air Pollutants (*NESHAP*).

Once removed the asbestos containing materials must be maintained adequately wetted to prevent generation of dust until it is containerized.

The asbestos waste shall be contained in fiber tight containers and properly labeled as per *OSHA 29 CFR Part 1926.1101*.

Specific procedures by operations are as follows:

### ***Glove Bag Removals***

Glove bags cannot be set up on piping systems that have a surface temperature greater than 150<sup>0</sup> F.

Set-up glove bag around the asbestos containing pipe insulation requested to be removed utilizing duct tape.

After installation is completed the glove bag integrity must be verified by a smoke test.

Smoke testing is the responsibility of the contractor and is required to be documented in the contractor's site logs.

In addition, polyethylene drop cloths must be setup under the glove bag removal areas.

After proper installation of the glove bags for completely enclosing the asbestos pipe insulation materials requiring removal, proceed to wet down and remove the insulation materials to provide an asbestos-free pipe length.

**Visual Evaluation only** is required for release of the area(s).

### **Part 9 - Waste Disposal**

All asbestos waste shall be properly wetted prior to packaging.

Asbestos-containing materials shall be placed in double, individually sealed, pre-labeled 6-mil polyethylene bags or wrapped and sealed in two (2) independent layers of 6-mil polyethylene sheeting and properly labeled. Polyethylene wrapped packages shall have all

appropriate labeling attached to the exterior of said packages by use of self-adhering labels.

Prior to bagging any waste in polyethylene disposal bags that have the potential to puncture the bag, the waste shall first be placed into a woven or reinforced bag to prevent such puncturing of the disposal bags.

Prior to wrapping any waste in polyethylene sheeting that have sharp corners or other surfaces that have the potential to puncture the packaging shall be protected by duct tape or some other method to prevent penetration of the packaging.

Disposal bags and wrapped packages shall be labeled in accordance with all applicable requirements of:

<i>EPA</i> Regulations	40 CFR 61.152 (b) (iv)
<i>EPA</i> Regulations	40 CFR 763, Appendix D
<i>OSHA</i> Regulation	29 CFR 1910.1001
<i>OSHA</i> Regulation	29 CFR 1926.1101
<i>DOT</i> Regulation	49 CFR 172
<i>DOT</i> Regulation	49 CFR 173

Transportation and disposal of all containerized asbestos containing waste materials generated, as part of this activity, shall be the responsibility of the Abatement Contractor.

Asbestos-containing waste shall be properly disposed of at a ME DEP approved facility licensed to accept special waste.

The Abatement Contractor shall supply the Owner with copies of signed receipts from the permitted landfill operator clearly indicating the following:

- (a) Date
- (b) Time
- (c) Amount of material received
- (d) Authorized person's signature from permitted landfill
- (e) Name and address of transporter
- (f) Driver's signature
- (g) Name and address of permitted landfill operator
- (h) Date and Time material is to be land-filled.

These receipts are required to be received by the Client/Owner within 35 days of actual receipt of the material at the approved permitted landfill.

All bags or wraps of asbestos-containing waste shall also be labeled as follows:

Rice Public Library  
Kittery, ME  
"Date"  
Abram Env.

All packaged waste shall be removed from any enclosure system or general work areas at the end of each workday and/or prior to final visual evaluations.

#### **Part 10 - Respiratory Protection, Personal Protective Equipment, and Personal Monitoring**

All personnel working in the regulated work areas for the removal of *non-friable* and *friable* asbestos materials shall wear as a minimum a Half-Face Negative Pressure Respirator equipped with dual P-100 (HEPA) cartridges, or better, as deemed appropriate by the Contractor's personal monitoring program.

All personnel, in addition to respiratory protection, shall wear disposable outer clothing, including head and foot cover.

Personal monitoring that may be conducted during removal and clean-up phases of this abatement project are the responsibility of the Abatement Contractor.

All monitoring shall be in accordance with the *OSHA Reference Method* as specified in *OSHA 29 CFR 1910.1001* and *OSHA 29 CFR 1926.1101*.

#### **Part 11 - Worker Decontamination**

All individuals must pass through the decontamination facility and properly decontaminate prior to exiting the regulated area. For remote decontamination ("blue suiting techniques"), all persons leaving the barriered area shall first don a clean suit over the "dirty" suit worn during activities in the posted work area.

Decontamination shall be achieved by removing all clothing and footwear except a bathing suit, if worn, in the Equipment Room. The individual will then enter the Shower Room and thoroughly rinse utilizing soap and water. Respirators must be worn into the Shower Room, and washed clean as part of the decontamination procedure.

Clothing or footwear used or worn in the regulated area must not leave the Equipment Room unless containerized for re-use inside a regulated area, cleaned, or disposed of. Clothing worn under protective suits and footwear must be designated for asbestos use only and be easily identifiable by sight by permanently marking or labeling (minimum ¾ inch lettering) as "Asbestos Clothing" on the outside of the clothing or footwear.

Containerized clothing or footwear must be opened only inside a regulated area,

excluding the clean room.

Only impervious materials such as rubber, polyethylene, etc., may be cleaned in the decontamination facility and released for unrestricted use. Clothing and other pervious materials, such as leather boots, must be cleaned according to applicable OSHA requirements.

**Part 12 - AIR MONITORING PROGRAM**

*John M. Boilard; ME DEP AM-0037*

*Air Monitoring is optional unless stipulated by contract or agreement with the Owner. Air clearance sampling of enclosure systems is always required. Generation of ME DEP Air Monitoring Disclosure Forms and signed copies onsite are required and is the responsibility of the Abatement Contractor to generate such documentation.*

If Air Monitoring is performed, a licensed ME DEP Air Monitor must collect the samples and the following will occur:

***Monitoring during Asbestos Abatement (Recommended – Not Required)***

*Regulated Work Areas*

Area monitoring of airborne fiber levels (*if required by contract*) are to be performed, but not limited to, as follows:

Inside Regulated Work Area	2 per eight hour shift
Outside Regulated Work Area	2 per eight hour shift
Clean Room	1 per eight hour shift

Airborne sample collection & analysis will be performed utilizing NIOSH Method #7400 for Phase Contrast Microscopy (PCM), Issue 2, 15 August 1994.

If at any time the airborne fiber concentrations outside the containment during the removal of asbestos exceed 0.01 fibers per cubic centimeter (f/cc) or visible emissions are observed emanating from the work area during asbestos removal activities, a stop work order will be issued and all abatement activities shall cease until the source of the contamination is identified and resolved.

***Visual inspection of the work areas (Mandatory)***

The work area(s) shall not be released or air clearance sampled, as needed, until a licensed ME DEP Air Monitor, Independent of the contractor, completes a satisfactory visual evaluation.

The visual evaluation(s) by the ME DEP Air Monitor shall comply with *Maine DEP* CMR 425, Section 8, Part B(1).

***Air Clearance Sampling (Non-mandatory)***

Not applicable to this project.

***Release of Work Area(s)***

After the Independent ME DEP Air Monitor gives clearance, the Abatement Contractor will remove all postings and/or all containment polyethylene/drop cloths and dispose of it as contaminated waste.

The Abatement Contractor shall also remove all other tools, equipment, barrier tape, signs, and waste from the work site.

Immediately upon completion of removal of any containment system sheeting or drop cloths, a ME DEP Asbestos Air Monitor or ME DEP Asbestos Project Supervisor must visually inspect all surfaces within the regulated area for visible debris.

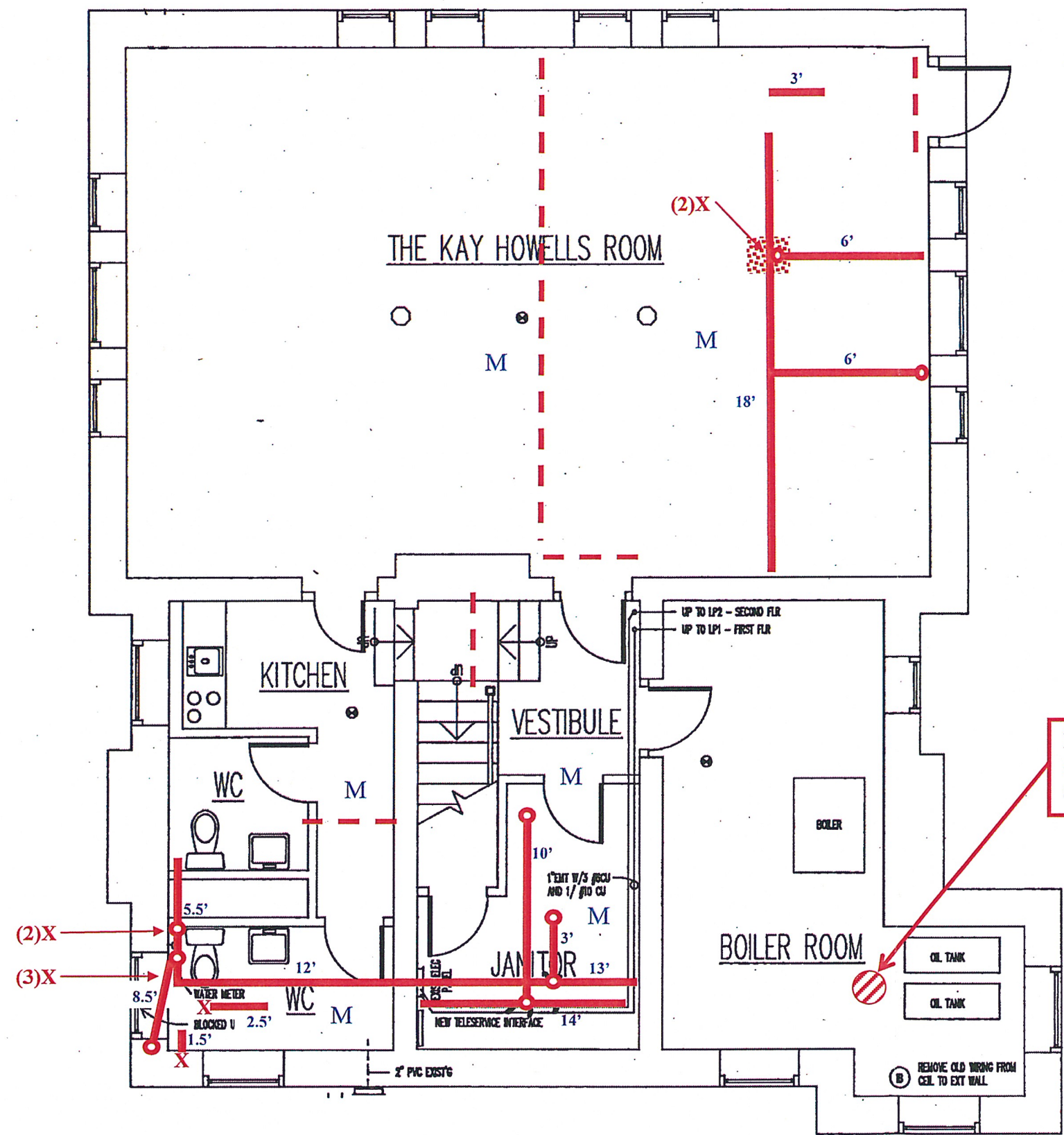
If visible debris is observed, the regulated area must be cleaned by HEPA vacuum or wet methods until there is no visible dust or debris present.

This final inspection must be documented in the daily project log. This documentation must include the following:

- a.) A statement that the regulated area was clear of visible debris and;
- b.) The name and signature of the person conducting this final inspection.

# ABATMENT of ASBESTOS PIPE INSULATIONS


## RICE PUBLIC LIBRARY; 8 WENTWORTH STREET; KITTERY, MAINE



**GROUND LEVEL**  
(BASEMENT)

**KEY:**

—	ASBESTOS PIPE INSULATION
○	ASBESTOS RISER
X	ASBESTOS FITTING
■ (dotted)	PIPE FITTING DEBRIS on TOP of CEILING TILE
- - -	REGULATED WORK AREA
M	AIR MONITORING AIR SAMPLES



**NORTHEAST TEST CONSULTANTS**

NTC JOB #13287-2012

DRAWING DATE: 10-2-2012  
JMB

DRAWING NOT TO SCALE

Pipe insulation debris in hole for sheetrock ceiling



# Asbestos Project Notification

State of Maine  
 Department of Environmental Protection  
 Lead & Asbestos Hazard Prevention Program  
 17 State House Station, Augusta, ME 04333  
 TEL (207) 287-2651 FAX (207) 287-6220

**FORM N**

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**COPY**

**Important Notice:** The notification submitter must send a complete notification including all applicable fees, postmarked at least 10 calendar days or received by the Department at least 5 working days prior to the start of an asbestos abatement project. This notification must be typewritten or easily legible. An incomplete notification is not acceptable & therefore not of record. See definition of project at Asbestos Management Regulations, 06-096 CMR 425(1)(DDDD)(last amended April 3, 2011). The notification submitter is responsible for ensuring that the complete notification including any applicable fee is received by the Department.

<b>1. Project Code</b>  NTC 13287 -2012 (Assigned by notification submitter)	<b>2. Original Notification</b> <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Facility O&M (Approved Annual) <input type="checkbox"/> Courtesy (Not Subject to the Rule)	<b>3. Type of Activity</b> <input type="checkbox"/> Demolition <input checked="" type="checkbox"/> Renovation	<b>4. Waiver</b> <input type="checkbox"/> Non Standard Work Practices <input type="checkbox"/> Emergency <input type="checkbox"/> Notification Timeframe Waiver <input type="checkbox"/> Approved Annual Non Standard
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<b>5. Facility Owner</b> Name RICE PUBLIC LIBRARY Address 8 WENTWORTH STREET City KITTERY State ME Zip 03904 Contact LEE PERKINS TEL (207) 439 - 1553 FAX n/a	<b>6. Asbestos Contractor</b> Name ABRAM ENVIRONMENTAL Address P.O. BOX 2038 City WINDHAM State ME Zip 04062 Contact COLIN BECKWITH TEL (207) 756-2252 FAX n/a
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<b>7. Facility Location (Where removal is to take place)</b> BLDG Name RICE PUBLIC LIBRARY Floor and/or Rm.# Basement: Kay Howells Room, Bathrom, & Janitors Closet Physical Address 8 WENTWORTH STREET City KITTERY State ME Zip 03904	<b>8. Facility Description</b> Present Use PUBLIC LIBRARY Prior Use Same BLDG Size 2,800 Sq Ft No. Floors 4 BLDG Age 35+
---	--

9. Asbestos (ACM) Removal			Project Totals
ACM Type	Amount	Measurement	
Pipe or Pipe Covering	102	Linear Feet	Total Square Feet = 0
Boiler Covering		Square Feet	
Mudded Fittings		Linear Feet	
Duct Covering		Square Feet	Total Linear Feet = 102
Gasket Material		Square Feet	Total Project = 102
Floor Tile		Square Feet	
Linoleum		Square Feet	
Mastic		Square Feet	
Ceiling Tiles		Square Feet	
Spray-on		Square Feet	
Siding		Square Feet	
Transite Paneling		Square Feet	
Roofing/Flashing		Square Feet	
Glues		Square Feet	

**Note:** Visual evaluations and air clearances for asbestos abatement projects involving more than 100 square/linear feet, or any combination thereof of must be performed by an independent Asbestos Consultant unless otherwise specified in Asbestos Management Regulations, 06-096 CMR 425) (effective April 3, 2011).



# Asbestos Project Notification

NTC 13287-2012  
Project Code

State of Maine  
Department of Environmental Protection  
Lead & Asbestos Hazard Prevention Program  
17 State House Station, Augusta, ME 04333  
TEL (207) 287-2651 FAX (207) 287-6220

# FORM N

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### 10. Notification Fees (Required fees must accompany notification)

- \$100.00 = ACM amounts 100 Sq Ft or 100 Ln Ft or any combination but less than 500 Sq Ft or 2500 Ln Ft.
- \$150.00 = ACM amounts more than 500 Sq Ft or 2500 Ln Ft but less than 1000 Sq Ft or 5000 Ln Ft.
- \$300.00 = ACM amounts more than 1000 Sq Ft or 5000 Ln Ft or any combination

### 11. Notification Fee Not Included

- Single family home exemption
- ACM amount less than 100 Sq Ft or 100 Ln Ft or any combination
- Fees paid quarterly (Non-Scheduled O&M only)
- BGS exemption
- Fee to follow within 3 days (Emergency/Notification Waiver only)

### 12. Demolition (complete as applicable)

- Ordered demolition (structurally unsound) by State or local government
- All other demolitions

#### Demolition Dates:

Start  
End

### Note on Required Notification Fees

If there are not sufficient funds to cover the check or credit card transaction an insufficient funds fee will be assessed by the Department in accordance with State of Maine laws and policies. Until that insufficiency is resolved (by money order or bank check), the Department will not accept any additional checks or credit card transactions from the party including additional checks for other project notifications.

### 13. Scheduled Dates for Asbestos Project

Project Start Date 10 / 15 / 2012 & 10 / 22 / 2012

Project Completion Date 10 / 15 / 2012 & 10 / 22 / 2012

ACM Removal Dates (from) 10 / 15 / 2012 & 10 / 22 / 2012

ACM Removal Dates (to) 10 / 15 / 2012 & 10 / 22 / 2012

### 14. Project Work Hours

8:00 AM to 5:00 PM (Show actual hours)

#### Weekdays (Check all that apply)

M  T  W  T  F

#### Weekend (Check all that apply)

Sat  Sun

### 15. Procedure Used to Detect Presence of Asbestos

Testing  Assumed Positive  Tested Positive

Method  PLM  TEM

Sampled By Brain Cohen, ME DEP #AI-557  
(Print Name)

Company Northeast Test Consultants

### 16. Project Clearance

Visual evaluation by: (Air Monitor (if known) and Company)

NTC

Air Clearance by: (Air Monitor (if known) and Company)

n/a

**Note: Whenever building materials are assumed to contain asbestos, signed bulk sampling disclosure forms must be at the asbestos abatement project site and available for review by the Department.**

### 17. Asbestos Abatement Design Consultant of Record

Name John M. Boilard Me Certification Number DC- 0260

Company Northeast Test Consultants DC Certification Expiration Date 11 - 30 - 2012

# Asbestos Project Notification

NTC 13287-2012  
Project Code

State of Maine  
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### 18. Asbestos Abatement Methods and Alternative Work Practices (check all that apply)

- |   |   |
|---|---|
| <input type="checkbox"/> Regulated area with containment consisting of 2-layers 4 mil poly on walls & ceiling & 2 layers 6 mil poly on floors | <input type="checkbox"/> Wetting ACM during removal not required    |
| <input type="checkbox"/> Regulated area with containment consisting of 1-layer 6 mil poly on walls & ceiling & 2 layers 6 mil poly on floors  | <input type="checkbox"/> Exhausting to Ambient Air not feasible     |
| <input checked="" type="checkbox"/> Regulated area with Exclusion zone  | <input type="checkbox"/> Aggressive Air Clearance not required      |
| <input checked="" type="checkbox"/> Glovebags (unlimited non-contiguous, contiguous limited to 30 In ft)                                      | <input checked="" type="checkbox"/> Visual Clearance only           |
| <input type="checkbox"/> Adhesive by grinding or bead blasting  | <input checked="" type="checkbox"/> Remote Decontamination Unit     |
| <input type="checkbox"/> Wrap & cut- TSI in good condition (no containment)   | <input type="checkbox"/> Smaller than standard Decontamination Unit |
| <input type="checkbox"/> Intact flooring demo by heavy equipment  | <input type="checkbox"/> Shutting down NAM at night                 |
| <input type="checkbox"/> Roofing removal by mechanical saws/cutters   | <input type="checkbox"/> Encapsulation                              |
| <input type="checkbox"/> Flooring by mechanical equipment/ice scrapers/pry bars   |   |
| <input type="checkbox"/> Enclosure  |   |

### Note on AHERA School Projects

The Federal Asbestos – Containing Materials in Schools regulation (40 CFR Part 763) commonly referred to as “AHERA” contains specific requirements for asbestos abatement activities that may not be waived by the Department. Among these are air clearance and sample analysis protocols.

### 19. Waste Transporter (Must be ME DEP licensed Non-Hazardous Waste Transporter)

Name WASTE MANAGEMENT OF MAINE, INC.  
Address 2000 FOREST AVENUE  
City PORTLAND State ME Zip 04104 - 0957  
Contact MIKE O'BRIEN  
TEL (207) 797 - 8290 FAX

### 20. Disposal Site

Name WASTE MANAGEMENT of MAINE, INC.  
Address P.O. BOX 629 ; ROUTE 2  
City NORRIDGEWOCK State ME Zip 04957  
Contact JEFFERY MCGOWN  
TEL 800 - 562 - 7779 FAX (207) 634 - 4519

### 21. Certification (Notification Submitted by)

I certify that to the best of my knowledge, the information contained in this notification is true and accurate, and that the asbestos abatement contractor will be/has been contracted to implement work practices as required by 06-096 CMR 425 effective April 3, 2011.

Signature 

John M. Boilard  
Print Name

Date 10/2/2012

Mailing Address NORTHEAST TEST CONSULTANTS; 587 SPRING STREET  
City Westbrook State ME Zip 04092  
TEL 854-3939 FAX 854-3658

### Remember

Submit completed pages 1 thru 3 of Form N for each original notification.

Submit pages 4 or 5 only as needed.

### ME DEP USE ONLY

Postmark/ FAX/ hand-delivered \_\_\_\_\_  
Date Received \_\_\_\_\_ Check # \_\_\_\_\_  
NESHAP \_\_\_\_\_ State \_\_\_\_\_  
Waiver \_\_\_\_\_