

# **Three-Year Asbestos Hazard Emergency Response Act Re-Inspection & Asbestos Management Plan Update**

for  
the School Facilities Building  
835 Falmouth Road  
Hyannis, Massachusetts

For Compliance with  
Commonwealth of Massachusetts Department of Labor Standards (MADLS)  
Asbestos Containing Materials in Schools Regulation (453 CMR 6.00)  
and  
EPA Asbestos Hazard Emergency Response Act  
(Title 40 CFR, Part 763, Subpart E)

**Barnstable Public Schools**  
Barnstable, Massachusetts

August 2020



**Fuss & O'Neill, Inc.**  
108 Myrtle Street, Suite 502  
Quincy, MA 02171



November 12, 2020

Mr. David Kanyock  
Director of Facilities  
Barnstable Public Schools  
835 Falmouth Road  
Barnstable, MA 02601

**RE: Three-Year AHERA Re-Inspection & Asbestos Management Plan Update  
School Facilities Building  
835 Falmouth Road, Hyannis, MA**  
Fuss & O'Neill Reference No. 20150090.C90

Dear Mr. Kanyock:

Enclosed is the Three-Year AHERA Re-Inspection and Asbestos Management Plan Update report prepared by Fuss & O'Neill, Inc. for the School Facilities Building located at 835 Falmouth Road in Hyannis, Massachusetts (the "Site"). AHERA services were performed for Barnstable Public Schools (the "Client").

This report is an important document that must be kept on file at the school as well as at a central location where the Asbestos Management Plans are maintained.

If you should have any questions regarding this report, please do not hesitate to contact me. Thank you for this opportunity to have served your environmental needs.

Sincerely,

Dustin A. Diedricksen  
Associate / Department Manager

DD/rs

Enclosure

108 Myrtle Street  
Suite 502  
Quincy, MA  
02171  
t 617.282.4675  
800.286.2469  
f 617.481.5885

[www.fando.com](http://www.fando.com)

California  
Connecticut  
Maine  
Massachusetts  
New Hampshire  
Rhode Island  
Vermont

# Table of Contents

## Three-Year Asbestos Hazard Emergency Response Act Re-Inspection & Asbestos Management Plan Update School Facilities Building

<b>1</b>	<b>Introduction .....</b>	<b>1</b>
1.1	Background .....	1
1.2	Local Education Agency (LEA) Responsibilities .....	1
1.3	Key Personnel.....	2
<b>2</b>	<b>Building Description .....</b>	<b>3</b>
<b>3</b>	<b>Three Year Re-Inspection.....</b>	<b>3</b>
3.1	Re-Inspection Procedures .....	3
<b>4</b>	<b>Re-Inspection Report.....</b>	<b>4</b>
4.1	Review of Existing Records .....	4
4.2	Re-Inspection Summary.....	4
4.3	Newly Identified or Re-sampled ACBM Materials .....	6
4.4	Physical Assessment of ACBM .....	7
<b>5</b>	<b>Management Plan Update .....</b>	<b>7</b>
5.1	Recommended Response Actions.....	7
5.2	Periodic Surveillance .....	9
5.3	Preventive Measures.....	9
5.4	Abatement (Removal) Cost Estimates .....	9
<b>6</b>	<b>EPA Accreditation Requirements .....</b>	<b>10</b>

### Appendices

### End of Report

APPENDIX A	EXISTING RECORDS CHECKLIST
APPENDIX B	RE-INSPECTION FORM 1
APPENDIX C	RE-INSPECTION FORM 2
APPENDIX D	PREVIOUSLY SAMPLED MATERIALS LABORATORY REPORTS
APPENDIX E	NEWLY INSTALLED MATERIALS SAFETY DATA SHEETS
APPENDIX F	SAMPLE 6-MONTH PERIODIC SURVEILLANCE FORM
APPENDIX G	PREVENTIVE MEASURES
APPENDIX H	FUSS & O'NEILL ASBESTOS ACCREDITATIONS & CERTIFICATIONS

# 1 Introduction

---

## 1.1 Background

The Clean Air Act required the United States Environmental Protection Agency (EPA) to develop standards to address the potential health risks associated with adverse effects of asbestos exposure as an indoor contaminant. In October 1986, the EPA promulgated the Asbestos Hazard Emergency Response Act (AHERA) located at Title 40 CFR, Part 763, Subpart E.

The AHERA regulations require that local education agencies (LEAs) conduct inspections of each school building that they lease, own, or otherwise use as a school building to identify friable (easily crumbled or crushed to powder by hand pressure) and non-friable asbestos-containing building materials (ACBM) locations. The original inspections were required to have been completed prior to October 12, 1988.

AHERA also requires that buildings leased or acquired on or after October 12, 1988 that are to be used as a school building, shall be inspected for friable and non-friable ACBM prior to use as a school building. In the event of an emergency use of a building that has not been inspected for ACBM, the building shall be inspected within 30 days after commencement of such use.

The regulatory requirements remain in effect for a private or public school system, a church-affiliated school of any denomination, a school dedicated to the education of children with special needs, or a charter school. In the Commonwealth of Massachusetts, the Department of Labor Standards (MADLS) is responsible for AHERA regulation enforcement.

---

## 1.2 Local Education Agency (LEA) Responsibilities

The LEA is responsible for compliance with the AHERA regulation. The following responsibilities must be followed:

1. The LEA must designate a person to ensure that all AHERA requirements are properly implemented. The LEA's Designated Person must receive adequate training to perform their duties.
2. The LEA must ensure that the Asbestos Management Plan(s) (AMP) are maintained in a central location and at each facility. AMP and pertinent documentation shall be available for inspection or review at all times.
3. The LEA must inform all workers, building occupants, and legal representatives (as appropriate) in writing at least once per school year about asbestos-related activities and the availability of the AMP for each school building.

4. The LEA must ensure proper accreditation for all persons who perform asbestos inspections, asbestos re-inspections, AMP development/updates, Asbestos Work Plan (AWP) development, and response actions that may disturb asbestos; this includes operations and maintenance (O&M) activities.
5. The LEA must provide training for all custodial and maintenance staff who regularly perform building maintenance where ACBM are present. The training must be provided upon initial hire, and refresher training must be completed annually.
6. The LEA must provide information (disclosure) to any workers who may perform work and may come into contact with asbestos in school buildings where ACBM or presumed ACBM are present.
7. The LEA must ensure that known ACBM or presumed ACBM are provided with warning labels in routine maintenance areas.
8. The LEA must ensure that periodic surveillance is performed at least once every six months, after AMP implementation, in all school buildings that it leases, owns, or otherwise uses that contains ACBM or presumed ACBM.
9. The LEA must ensure that once every three years, after an AMP is implemented, a re-inspection is performed at each school building that it leases owns or otherwise uses that contains ACBM or presumed ACBM.

Refer to above-mentioned regulation for full requirements and responsibilities.

---

### 1.3 Key Personnel

A. Local Education Agency (LEA):

LEA: Barnstable Public Schools  
Address: 230 South Street  
Hyannis, MA 02601  
Phone: (508) 862-4953

B. Designated Person:

Designated Person: Mr. Michael Lambros  
Address: Deputy Director of Facilities  
835 Falmouth Road  
Barnstable, Massachusetts 02601  
Phone: (508) 790-6490

C. Asbestos Consultant:

Firm: Fuss & O'Neill, Inc.  
Address: 108 Myrtle Street, Suite 502  
Quincy, MA 02171  
Phone: (617) 282-4675

D. Asbestos Inspector:

Inspector: Robert Mallett  
MADLS Certification Number: AI900557  
Expiration Date: 06/01/2021

E. Asbestos Management Planner:

Planner: Dustin Diedricksen  
MADLS Certification Number: AP900425  
Expiration Date: 04/05/2021

## 2 Building Description

The School Facilities Building is a two-story, steel structure constructed on a concrete slab. The floors are composed of concrete, and the walls are constructed of a mixture of block, wood, and sheetrock. The ceilings are comprised of sheetrock and wood.

## 3 Three Year Re-Inspection

### 3.1 Re-Inspection Procedures

This three-year AHERA re-inspection was conducted in accordance with EPA requirements of the AHERA regulation, Title 40 CFR, Part 763, Section 763.85 (b).

On August 26, 2020, Fuss & O'Neill, Inc. (Fuss & O'Neill) representative, Mr. Robert Mallett, performed the re-inspection.

During the re-inspection, Fuss & O'Neill conducted the following required tasks:

1. A visual re-inspection and reassessment of all known friable or Assumed ACBM.
2. A visual re-inspection of ACBM that was previously considered non-friable to determine if the present condition of the material has become friable.

3. Identification and assessment of any newly identified homogeneous area that contains friable ACBM since the last inspection or re-inspection.

## 4 Re-Inspection Report

---

### 4.1 Review of Existing Records

An important part of this AHERA re-inspection involved researching prior documentation, which is required to be present at the school as well as at the central recordkeeping location where AMP and pertinent documentation are stored.

Refer to *Appendix A* for the existing records checklist.

### 4.2 Re-Inspection Summary

The on-site portion of the re-inspection was documented on forms modeled after examples provided by the EPA and reviewed with the MADLS. The first form, **Re-Inspection Form 1**, identifies previous inspection data gathered during the initial AHERA inspection and subsequent re-inspection (refer to *Appendix B*). This form is useful to reference response actions (if any), which have been performed since the last inspection, as well as identifies the last known conditions of ACBM in the building. It additionally provides the inspector a “quick glance” reference when performing the re-inspection.

The second EPA form, **Re-Inspection Form 2**, is used to provide information and justification regarding re-assessment of the ACBM (refer to *Appendix C*). This form also provides response action recommendations, including a tentative schedule for completing response actions that recommend removal or repair.

Previous bulk sampling results can be found in Table 1 and Table 2. Refer to *Appendix D* for previously sampled materials laboratory reports.

Using EPA protocol and criteria, the following materials existing in the School Facilities Building at the time of this three-year re-inspection have been determined and/or assumed to be **ACBM**. Please refer to the above-mentioned re-inspection forms for specific ACBM locations.

**Table 1**  
**Asbestos-Containing Building Materials (ACBM)**  
**(Previous & Current Re-Inspections)**

<b>Material</b>	<b>Location</b>	<b>Reference</b>	<b>Asbestos Content</b>
12" x 12" Gray with Streak Floor Tile	"Plan" Office	2013 Initial AMP (Sample 801LD-04A) & 2020 AMP Update (Sample ID: 08A-RCM-0826)	2 - 3% Chrysotile

Using the EPA protocol, samples of the following suspect materials were collected and analyzed. The analytical results indicated that these materials are **non-ACBM**:

**Table 2**  
**Non-Asbestos-Containing Building Materials**  
**(Previous & Current Re-Inspections)**

<b>Material</b>	<b>Location</b>	<b>Reference</b>
12" x 12" Blue/Gray Mottled Floor Tile	Men's Room, Women's Room, Lobby/Break Room, & Office Spaces	2013 Initial AMP (Sample ID: 801LD-03A & 03B) 2020 AMP Update (Sample ID: 01A & 01B-RCM-0826)
Brown Mastic Associated with 12" x 12" Blue/Gray Mottled Floor Tile	Men's Room, Women's Room, Lobby/Break Room, & Office Spaces	2020 AMP Update (Sample ID: 02A & 02B-RCM-0826)
12" x 12" Gray Floor Tile beneath 12" x 12" Blue/Gray Mottled Floor Tile	Men's Room, Women's Room, Lobby/Break Room, & Office Spaces	2020 AMP Update (Sample ID: 03A & 03B-RCM-0826)
Brown Mastic Associated with 12" x 12" Gray Floor Tile beneath 12" x 12" Blue/Gray Mottled Floor Tile	Men's Room, Women's Room, Lobby/Break Room, & Office Spaces	2020 AMP Update (Sample ID: 04A & 04B-RCM-0826)
4" Gray Vinyl Baseboard	Men's Room, Women's Room, Lobby/Break Room, Office Spaces, & "Plan" Office	2020 AMP Update (Sample ID: 05A & 05B-RCM-0826)
Brown Adhesive Associated with 4" Gray Vinyl Baseboard	Men's Room, Women's Room, Lobby/Break Room, Office Spaces, & "Plan" Office	2020 AMP Update (Sample ID: 06A & 06B-RCM-0826)



<b>Material</b>	<b>Location</b>	<b>Reference</b>
White Joint Compound	Men's Room, Women's Room, Lobby/Break Room, Office Spaces, & "Plan" Office	2013 Initial AMP (Sample ID: 801LD-01A, 01B, & 01C) 2020 AMP Update (Sample ID: 07A, 07B, & 07C- RCM-0826)
Brown Mastic Associated 12" x 12" Gray with Streak Floor Tile	"Plan" Office	2013 Initial AMP (Sample ID: 801LD-05A & 05B) 2020 AMP Update (Sample ID: 09A & 09B-RCM- 0826)
Gray Gypsum Wallboard	Garage, Men's Room, Women's Room, Lobby/Break Room, Office Spaces, & "Plan" Office	2013 Initial AMP (Sample ID: 801LD-02A & 02B; 801LD-06A & 06B) 2020 AMP Update (Sample ID: 010A & 010B-RCM- 0826)

Mr. Dustin Diedricksen reviewed the information obtained during this re-inspection. Mr. Diedricksen is an EPA-accredited and MADLS-certified Asbestos Management Planner.

### **4.3 Newly Identified or Re-sampled ACBM Materials**

No newly identified suspect ACBM were identified in the building during this re-inspection.

AHERA regulations pertain to interior identified or Assumed ACBM and limited exterior ACBM. AHERA regulations do include ACBM located on exterior porticos, covered walkways, and mechanical equipment used to condition interior building air.

Any suspect ACBM encountered during renovation/demolition/maintenance activities that is not specifically identified in the AMP as a non-ACBM should be assumed to contain asbestos unless sample results indicate otherwise.

Safety Data Sheets (SDS) should be obtained and kept with the AHERA documentation for any newly installed materials in order to meet AHERA requirements. These SDS must demonstrate that asbestos-containing materials (ACM) were not installed in the building. We recommend that SDS for newly installed materials be inserted into *Appendix E*.

---

## 4.4 Physical Assessment of ACBM

During inspection, suspect ACBM were separated into three EPA categories: Thermal System Insulation (TSI), Surfacing ACBM, and Miscellaneous ACBM. TSI includes all materials used to prevent heat loss/ gain or water condensation on mechanical systems. Examples of TSI are pipe and fitting insulations, boiler insulation, and duct insulation. Surfacing ACBM is commonly used for fireproofing, decorative, and acoustical applications. Miscellaneous ACBM include all ACBM not listed in TSI or surfacing, such as sheet flooring, vinyl asbestos flooring, ceiling tiles, and construction mastics/adhesives.

Finally, ACBM were quantified in linear feet or square feet, depending on the nature of the material.

The ACBM identified during the inspection (and still remaining in the school) were re-assessed using the MADLS and AHERA guidelines for assessment of ACBM. The following assessment categories are listed:

- 1 Damaged or significantly damaged TSI ACM
- 2 Damaged friable surfacing ACM
- 3 Significantly damaged friable surfacing ACM
- 4 Damaged or significantly damaged friable miscellaneous ACM
- 5 ACBM with potential for damage
- 6 ACBM with potential for significant damage
- 7 Any remaining friable ACBM or friable suspected ACBM

Material locations, assessments, and recommended response actions are listed in the re-inspection forms.

## 5 Management Plan Update

---

### 5.1 Recommended Response Actions

Based on the inspection report, the physical walk-through inspection, and the existing ACBM conditions, the following response actions are recommended:

1. Removal – Not Applicable
2. Repair - Not Applicable
3. Enclosure – Not Applicable
4. Encapsulation – Not Applicable
5. Operations and Maintenance (O & M) - All remaining ACBM

A successful O & M Program includes the following elements:

- A. Cleaning: All areas of the school where friable ACBM or assumed friable ACBM are present should be cleaned at least once after completion of this re-inspection. Additional cleaning may be necessary if the Asbestos Management Planner makes a written recommendation indicating the methods and frequency of such cleaning.
- B. O & M Activities: The LEA shall ensure that the procedures described below are followed to protect building occupants from O & M activities that may disturb known or Assumed ACBM:
1. Restrict entry into the area either by physically isolating or by scheduling.
  2. Post asbestos warning signs to prevent entry by unauthorized persons.
  3. Deactivate or temporarily shut off or divert the air-handling system to the area.
  4. Use proper work practices and engineering controls, such as wet methods, protective clothing, High Efficiency Particulate Air (HEPA) vacuums, mini-enclosures/glove bags, etc. to inhibit fiber migration.
  5. Place asbestos debris and other contaminated materials into a sealed, leak-tight container for disposal.
- C. Minor Fiber Release Episode: The LEA shall ensure that the procedures described below are followed in the event of a minor fiber release episode (i.e., disturbance of less than or equal to 3 linear/square feet of friable ACBM):
1. Saturate the debris using wet methods.
  2. Place the debris in a sealed, leak-tight container and clean the area.
  3. Repair the area of damaged ACBM with materials such as asbestos-free spackling, plaster or insulation or seal with an encapsulant.
- D. Major Fiber Release Episode: The LEA shall ensure that the procedures described below are followed in the event of a major fiber release episode (i.e., disturbance of greater than 3 linear/square feet of friable ACBM):
1. Restrict entry into the area and post asbestos warning signs.
  2. Deactivate or temporarily shut off or divert the air handling system from the area to prevent fiber migration.
  3. The response action for any major fiber release episode must be prepared by EPA-accredited Asbestos Project Designers and conducted by EPA-accredited personnel.
  4. The LEA shall notify the MADLS of any major fiber release episode within twenty-four hours of its occurrence and, if necessary, provide written notification as required by applicable federal and/or state regulations.

---

## 5.2 Periodic Surveillance

At least once every six months after an AMP is implemented, the LEA will conduct periodic surveillance in the school that contains ACBM or Assumed ACBM. The person conducting periodic surveillance will visually inspect all areas in the school where ACBM have been identified in the AMP, and record the date of surveillance, their name, and any changes in the ACBM condition; this information shall then be submitted to the LEA's Designated Person for inclusion in the AMP.

Refer to *Appendix F* for the Sample 6-Month Periodic Surveillance Form that may be used for conducting periodic surveillance.

---

## 5.3 Preventive Measures

The LEA shall institute appropriate preventive measures to eliminate the reasonable likelihood that ACBM will become damaged, deteriorated, and/or delaminated.

Refer to *Appendix G* for preventive measures designed for various types of ACBM that may exist in the school.

---

## 5.4 Abatement (Removal) Cost Estimates

Costs for abatement (removal) of all ACBM in the building are as follows:

**Table 3  
Abatement Cost Estimates**

<b>Material</b>	<b>Location</b>	<b>Estimated Quantity</b>	<b>Estimated Contractor Cost</b>
12" x 12" Gray with Streak Floor Tile	"Plan" Office	200 SF	\$1,500

SF=Square Feet

Asbestos training costs for custodial and maintenance workers (under O&M Program) are as follows:

**Table 4  
Asbestos Training Cost Estimates**

<b>Training Course</b>	<b>Estimated Cost</b>
Two-Hour Asbestos Awareness Training (Annual)	\$75/Person/Year
Asbestos Coordinator/LEA Designated Person Initial Training	\$250/Person
Asbestos Coordinator/LEA Designated Person Annual Refresher Training	\$200/Person/Year
Asbestos Operations & Maintenance Initial Training	\$300/Person
Asbestos Operations & Maintenance Annual Refresher Training	\$150/Person/Year
Three-Year Re-Inspections & AMP Updates	\$3,000 - 3,500

## 6 EPA Accreditation Requirements

EPA accreditations and MADLS Asbestos Inspector and Asbestos Management Planner certifications for Mr. Mallett and Mr. Diedricksen are provided in *Appendix H*.

Report prepared by Environmental Analyst, Robert Mallett.

Reviewed by:



Dustin A. Diedricksen  
Associate / Department Manager

## **Appendix A**

---

### Existing Records Checklist

## Existing Records Checklist

Local Education Agency (LEA): Barnstable Public Schools  
835 Falmouth Road  
Barnstable, MA 02601

School Building: School Facilities Building

The following documentation is required to be present at both the LEA's office and at a centralized location in the school administrative office. The information included in this checklist will be verified to be present and complete as part of three-year re-inspection.

DOCUMENTATION		LOCATION	
		School	LEA Office
1	Original AHERA Operations and Maintenance Plan/Inspection Report	Yes	Yes
2	Three Year Re-Inspection (First and All Subsequent Inspections)	Yes	2014
3	Parents and Teachers Notifications (Annually Since Last Re-Inspection)	Yes	Yes
4	Designated Person Identification and Proper Training	Yes	Yes
5	Designated Person Periodic Surveillance (Once Every Six Months)	Yes	Yes
6	Maintenance Staff Awareness Training Records	Yes	Yes
7	Outside Vendor Awareness Notification	Yes	Yes
8	Asbestos Warning Signs and Labels (Required Posting in Boiler Rooms and Mechanical Spaces Only)	Yes	N/A
9	Response Action Records (Includes Any Abatement Conducted Since Last 3-Year Re-Inspection)	N/A	N/A

Comments: Items marked “**No**” indicate not present/available at the time of this inspection.

Inspector (LEA Office): Robert Mallett

Date: August 26, 2020

Inspector (School): Robert Mallett

Date: August 26, 2020

## **Appendix B**

---

### Re-Inspection Form 1



## Re-Inspection Form 1 – List of Previously Identified ACBM

 School: School Facilities Building  
 Address: 835 Falmouth Road, Hyannis, MA

 Date(s) of Original Inspection: 1989  
 Date(s) of Subsequent Re-Inspections: 2013, 2017, 2020

Homogeneous Material			Material Category	Friability	Assessment Category (1-7)	Recorded Locations	Response Actions Taken/Renovations/Other Comments
Sample Number	Asbestos Content	Material Description					
801LD-04A & 08A-RCM-0826	2-3% Chrysotile	12" x 12" Gray with Streak Floor Tile	Misc.	NF	5	"Plan" Room	

 Information abstracted by: Robert Mallett Date: August 26, 2020

Material Category: TSI = Thermal System Insulation, Surf. = Surfacing, Misc. = Miscellaneous

Friability: F = Friable, NF = Non-Friable

AHERA Assessment Categories:

1 = Damaged or significantly damaged TSI ACM; 2 = Damaged friable surfacing ACM; 3 = Significantly damaged friable surfacing ACM; 4 = Damaged or significantly damaged friable miscellaneous ACM; 5 = ACBM with potential for damage; 6 = ACBM with potential for significant damage; 7 = Any remaining friable ACBM or friable suspected ACBM

## **Appendix C**

---

### Re-Inspection Form 2



School: School Facilities Building

Date of Re-Inspection: August 26, 2020

Homogeneous Material: 12" x 12" Gray with Streak Floor Tile

Sample ID Number: 801LD-04A & 08A-RCM-0826

ACBM RE-INSPECTION FINDINGS					MANAGEMENT PLANNER RECOMMENDATIONS	
ACBM Location(s) by Assessment Category	Friability	Estimated Quantity	Assessment Category	Physical Description	Recommended Response Action(s)	Date Action Completed
"Plan" Room	NF	200 SF	5	ACBM with potential for damage	Maintain under O&M Program	Ongoing
Were additional samples of this ACBM collected? No					Date of Management Planner Review: <u>November 12, 2020</u>	
Inspector's Name: <u>Robert Mallett</u> Inspector Signature: _____ Accreditation #/State: <u>AI900557/MA</u> Expiration Date: <u>06/01/2021</u>					Management Planner Name: <u>Dustin Diedricksen</u> Management Planner Signature: _____ Accreditation #/State: <u>AP900425/MA</u> Expiration Date: <u>04/05/2021</u>	
I, the LEA's Designated Person, have read and understood the recommendations made above: _____ Date: _____						

## **Appendix D**

---

### Previously Sampled Materials Laboratory Reports



# EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

<http://www.EMSL.com> / [bostonlab@emsl.com](mailto:bostonlab@emsl.com)

EMSL Order: 132006056

Customer ID: ENVI54

Customer PO: 20150090.C90

Project ID:

**Attention:** Dustin Diedricksen  
Fuss & O'Neill, Inc.  
146 Hartford Road  
Manchester, CT 06040

**Phone:** (617) 778-3750

**Fax:**

**Received Date:** 08/27/2020 11:45 AM

**Analysis Date:** 09/03/2020

**Collected Date:** 08/26/2020

**Project:** 20150090.C90/Facilities Office; 835 Falmouth Road; Barnstable, MA

## 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
01A-RCM-0826 <small>132006056-0001</small>	Men's Room - 12"x12" Blue/Gray Mottled Floor Tile	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
01B-RCM-0826 <small>132006056-0002</small>	Break Room - 12"x12" Blue/Gray Mottled Floor Tile	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02A-RCM-0826 <small>132006056-0003</small>	Men's Room - Brown Mastic Assoc. w/ 01	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02B-RCM-0826 <small>132006056-0004</small>	Break Room - Brown Mastic Assoc. w/ 01	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
03A-RCM-0826 <small>132006056-0005</small>	Men's Room - 12"x12" Gray Floor Tile Beneath 01	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
03B-RCM-0826 <small>132006056-0006</small>	Break Room - 12"x12" Gray Floor Tile Beneath 01	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04A-RCM-0826 <small>132006056-0007</small>	Men's Room - Brown Mastic Assoc. w/ 03	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04B-RCM-0826 <small>132006056-0008</small>	Break Room - Brown Mastic Assoc. w/ 03	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
05A-RCM-0826 <small>132006056-0009</small>	Men's Room - 4" Gray Vinyl Baseboard	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
05B-RCM-0826 <small>132006056-0010</small>	Break Room - 4" Gray Vinyl Baseboard	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
06A-RCM-0826 <small>132006056-0011</small>	Men's Room - Brown Adhesive Assoc. w/ 05	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
06B-RCM-0826 <small>132006056-0012</small>	Break Room - Brown Adhesive Assoc. w/ 05	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
07A-RCM-0826 <small>132006056-0013</small>	Men's Room - White Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
07B-RCM-0826 <small>132006056-0014</small>	Break Room - White Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
07C-RCM-0826 <small>132006056-0015</small>	Ladies' Room - White Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
08A-RCM-0826 <small>132006056-0016</small>	Plan Office - 12"x12" Gray w/ Streak Floor Tile	Gray Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile

Initial report from: 09/03/2020 13:39:55



# EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

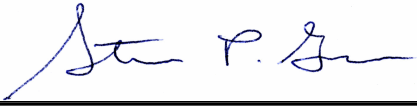
<http://www.EMSL.com> / [bostonlab@emsl.com](mailto:bostonlab@emsl.com)

**EMSL Order:** 132006056  
**Customer ID:** ENVI54  
**Customer PO:** 20150090.C90  
**Project ID:**

## 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
08B-RCM-0826 <small>132006056-0017</small>	Plan Office - 12"x12" Gray w/ Streak Floor Tile				Positive Stop (Not Analyzed)
09A-RCM-0826 <small>132006056-0018</small>	Plan Office - Brown Mastic Assoc. w/ 08	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
09B-RCM-0826 <small>132006056-0019</small>	Plan Office - Brown Mastic Assoc. w/ 08	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
10A-RCM-0826 <small>132006056-0020</small>	Men's Room - Gray Gypsum Wallboard	Gray/Tan Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
10B-RCM-0826 <small>132006056-0021</small>	Break Room - Gray Gypsum Wallboard	Gray/Tan Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected

Analyst(s)  
 \_\_\_\_\_  
 Kevin Pine (20)

  
 \_\_\_\_\_  
 Steve Grise, Laboratory Manager  
 or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. 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 or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA NVLAP Lab Code 101147-0, CT PH-0315, MA AA000188, RI AAL-139, VT AL998919, Maine Bulk Asbestos LB-0039

Initial report from: 09/03/2020 13:39:55



108 Myrtle Street, Suite 502, Quincy, MA 02171

Phone (617) 282-4675 Fax (617) 282-8253

**Asbestos Bulk Sample Chain-of-Custody Form**

Sheet \_\_\_ of \_\_\_

**Project Name:** Barnstable 3-Year AHERA Update **Project No.:** 20150090.C90 **Task:** \_\_\_\_\_

**Building Name/Number:** Facilities Office **Project Manager:** Diedricksen

**Site Address:** 835 Falmouth Rd, Barnstable, MA **Total # of Samples:** 21

Sample ID (#-Initials-Date)	Material Type (Size, Color, Description, Material)	Sample Location	Comments/ Quantities
01A-RCM-0826	12" x 12" Blue/Gray Mottled Floor Tile	Men's Room	
01B-RCM-0826	12" x 12" Blue/Gray Mottled Floor Tile	Break Room	
02A-RCM-0826	Brown Mastic Associated with 01	Men's Room	
02B-RCM-0826	Brown Mastic Associated with 01	Break Room	
03A-RCM-0826	12" x 12" Gray Floor Tile beneath 01	Men's Room	
03B-RCM-0826	12" x 12" Gray Floor Tile beneath 01	Break Room	
04A-RCM-0826	Brown Mastic Associated with 03	Men's Room	
04B-RCM-0826	Brown Mastic Associated with 03	Break Room	
05A-RCM-0826	4" Gray Vinyl Baseboard	Men's Room	
05B-RCM-0826	4" Gray Vinyl Baseboard	Break Room	
06A-RCM-0826	Brown Adhesive Associated with 05	Men's Room	
06B-RCM-0826	Brown Adhesive Associated with 05	Break Room	
07A-RCM-0826	White Joint Compound	Men's Room	
07B-RCM-0826	White Joint Compound	Break Room	
07C-RCM-0826	White Joint Compound	Ladies Room	
08A-RCM-0826	12" x 12" Gray With Streak Floor Tile	Plan Office	
08B-RCM-0826	12" x 12" Gray With Streak Floor Tile	Plan Office	
09A-RCM-0826	Brown Mastic Associated with 08	Plan Office	
09B-RCM-0826	Brown Mastic Associated with 08	Plan Office	
10A-RCM-0826	Gray Gypsum Wallboard	Men's Room	
10B-RCM-0826	Gray Gypsum Wallboard	Break Room	

**Analysis Method:**  PLM  TEM  Other \_\_\_\_\_

Turnaround Time: 1-week

Please call Fuss & O'Neill at (617) 282-4675 if analyses will not be completed for requested turnaround time listed above.

**Email Results to:** ddiedricksen @fando.com

**Do Not Mail Hard Copy Report** FAX Results to: 888-838-1160.

REC'D  
EMSL-BOSTON  
wain  
AUG 7 2020



FUSS & O'NEILL

132006056

EMSL Customer No. ENVI54

www.fando.com

108 Myrtle Street, Suite 502, Quincy, MA 02171

Phone (617) 282-4675 Fax (617) 282-8253

**Special Instructions:** Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated. Do not point count. If NOB group samples are ALL negative by PLM, analyze the sample denoted with a star (★) by TEM NOB on a [ ] turnaround time. Analyze a MAXIMUM of [ ] samples by TEM in noted order.

Samples Collected by:  Date: 8/26/2020

Samples Sent by: RM Date: 8/27/2020 Time: AM

Shipped To:  EMSL  Other

Method of Shipment:  Fed Ex  Lab Drop Off  Other

  
REC'D  
EMSL-BOSTON  
AUG 27 2020



**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com>[cinnaslab@EMSL.com](mailto:cinnaslab@EMSL.com)

EMSL Order: 041324590

CustomerID: ENVI54

CustomerPO:

ProjectID:

Attn: **Dustin Diedricksen**  
**Fuss & O'Neill EnviroScience, LLC**  
**146 Hartford Road**  
**Manchester, CT 06040**

Phone: (860) 646-2469  
 Fax: (888) 838-1160  
 Received: 09/12/13 9:15 AM  
 Analysis Date: 9/12/2013  
 Collected: 8/1/2013

Project: 20121793.A1E / Barnstable Public Schools - Barnstable School Maintenance Building

## 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
801LD-01A 041324590-0001	Lobby ceiling - joint compound, white	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
801LD-01B 041324590-0002	Office area, copy room wall - joint compound, white	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
801LD-01C 041324590-0003	Carpenter shop wall - joint compound, white	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
801LD-02A 041324590-0004	Lobby wall, under counter - sheetrock, beige	Gray Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
801LD-02B 041324590-0005	Office file storage room wall - sheetrock, beige	Brown/White Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (other)	None Detected
801LD-03A 041324590-0006	Lobby - floor tile, light gray w/ white fleck-sticky back 12x12	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
801LD-03B 041324590-0007	Office area copy room - floor tile, light gray w/ white fleck-sticky back 12x12	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
801LD-04A 041324590-0008	Office file storage room - floor tile, white w/ gray fleck-12x12	Gray Non-Fibrous Homogeneous		95% Non-fibrous (other)	5% Chrysotile

Analyst(s)

Jennifer Mattero (5)

McLaughlin Paul (7)

Stephen Siegel, CIH, Laboratory Manager  
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%  
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from 09/12/2013 14:47:50

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com>[cinnasblab@EMSL.com](mailto:cinnasblab@EMSL.com)

EMSL Order: 041324590

CustomerID: ENVI54

CustomerPO:

ProjectID:

Attn: **Dustin Diedricksen**  
**Fuss & O'Neill EnviroScience, LLC**  
**146 Hartford Road**  
**Manchester, CT 06040**

Phone: (860) 646-2469  
 Fax: (888) 838-1160  
 Received: 09/12/13 9:15 AM  
 Analysis Date: 9/12/2013  
 Collected: 8/1/2013

Project: 20121793.A1E / Barnstable Public Schools - Barnstable School Maintenance Building

## 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
801LD-04B 041324590-0009	Office file storage room - floor tile, white w/ gray fleck-12x12				Stop Positive (Not Analyzed)
801LD-05A 041324590-0010	Office file storage room - adhesive, yellow-associated with sample 04A	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
801LD-05B 041324590-0011	Office file storage room - adhesive, yellow-associated with sample 04B	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
801LD-06A 041324590-0012	Carpenter shop wall - sheetrock, gray	Gray Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
801LD-06B 041324590-0013	Paint room wall - sheetrock, gray	Brown/Gray Fibrous Homogeneous	15% Cellulose 5% Glass	80% Non-fibrous (other)	None Detected

Analyst(s)

Jennifer Mattero (5)

McLaughlin Paul (7)

Stephen Siegel, CIH, Laboratory Manager  
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%  
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from 09/12/2013 14:47:50



**FUSS & O'NEILL**  
EnviroScience, LLC

13

www.fando.com

50 Redfield St, Suite 100, Boston, MA 02122

041324590

(617) 282-4675 Fax (617) 282-8253

**Sample Log for Asbestos Bulks**

Sheet 1 of 2

Project Name: Barnstable Public School Project No. 20121793-A IE  
 Building: Barnstable School Maintenance Building Project Manager: D. Diederickson

Sample ID	Sample Location	Material	Comments
801LD-01A	Lobby Ceiling	Joint Compound, White	
801LD-01B	Office Area, Copy Room Wall	Joint Compound, White	
801LD-01C	Carpenter Shop Wall	Joint Compound, White	
801LD-02A	Lobby Wall, Undercounter	Sheet Rock, Beige	
801LD-02B	Office File Storage Room Wall	Sheet Rock, Beige	
801LD-03A	Lobby	Floor Tile, Light Gray w/ white Fleck - Sticky Back	12'x12"
801LD-03B	Office Area Copy Room	Floor Tile, Light Gray w/ white Fleck - Sticky Back	
801LD-04A	Office File Storage Room	Floor Tile, White w/ Gray Fleck	12'x12"
801LD-04B	Office File Storage Room	Floor Tile, White w/ Gray Fleck	
801LD-05A	Associated with sample 04A	Adhesive, Yellow	
801LD-05B	Associated with sample 04B	Adhesive, Yellow	

Analysis Method:  PLM  TEM

Turnaround Time

24 Hour

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: \_\_\_\_\_. Please call the EnviroScience Laboratory if analyses will be late at (860) 646-2469.

Fax Results to the EnviroScience Laboratory at: 888-838-1160.

Special Instruction: Stop at first positive in each set. Do not point count. Do not analyze samples not on this chain

RECEIVED  
 ENVIROSCIENCE  
 CANNAMINS, N.J.  
 2012 SEP 12 10:46

Samples Collected By: Lou Dias Date: 8/11/13 Time: \_\_\_\_\_

Samples Sent By: DD LD Date: 9/4/13 9/10/13 Time: PM

Samples Received by: AK EMSL FX Date: 9/12/13 Time: 9:15a

Shipped To:  EMSL State MA  Other \_\_\_\_\_

Method of Shipment:  Fed Ex  UPS Overnight  UPS Ground  Other

drop box

RECEIVED  
 SEP 11 2013  
 By: SL 0830



**FUSS & O'NEILL**  
EnviroScience, LLC

50 Redfield St, Suite 100, Boston, MA 02122

041324590

www.fando.com

(617) 282-4675 Fax (617) 282-8253

### Sample Log for Asbestos Bulks

Sheet 2 of 2

Project Name: Barnstable Public School Project No. 20121793-AIE  
Building: Barnstable School Maintenance Building Project Manager: D. Diedericksen

Sample ID	Sample Location	Material	Comments
801LD-06A	Carpenters Shop Wall	Sheet Rock, Gray	
801LD-06B	Paint Room Wall	Sheet Rock, Gray	

RECEIVED  
EMSL  
DINNAMINSON, NJ  
2013 SEP 12 A 10:46

Analysis Method:  PLM  TEM Turnaround Time 24 Hour

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: \_\_\_\_\_. Please call the EnviroScience Laboratory if analyses will be late at (860) 646-2469.

Fax Results to the EnviroScience Laboratory at: 888-838-1160.

Special Instruction: Stop at first positive in each set. Do not point count. Do not analyze samples not on this chain.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Samples Collected By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Samples Sent By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Samples Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Shipped To:  EMSL State \_\_\_\_\_  Other \_\_\_\_\_

Method of Shipment:  Fed Ex  UPS Overnight  UPS Ground  Other \_\_\_\_\_

RECEIVED  
SEP 11 2013  
By SLU 0830

## Appendix E

---

### Newly Installed Materials Safety Data Sheets

**To be Provided by LEA**

## Appendix F

---

### Sample 6-Month Periodic Surveillance Form



### Sample 6- Month Periodic Surveillance Form

Local Education Agency (LEA): Barnstable Public Schools  
Facility Name: School Facilities Building  
Date of Surveillance: \_\_\_\_\_

#### ACBM Damage Report

Asbestos-Containing Building Material	Location	Previous Condition	Present Condition	Change in Condition (Yes/No)	Estimated Damaged Quantity	Comments
12" x 12" Gray with Streak Floor Tile	"Plan" Office	G				

Conditions: D = Damaged; F = Fair; G = Good; IA = Inaccessible; N/A = Not Applicable; SD = Significant Damage; SF = Square Feet

Surveillance conducted by: \_\_\_\_\_  
(print name) (signature)

I, the LEA's Designated Person, have read and understood the findings noted above: \_\_\_\_\_

Date: \_\_\_\_\_

## **Appendix G**

---

### Preventive Measures



## Preventive Measures for Various Asbestos-Containing Building Materials

### A. Surfacing Materials

“Surfacing Materials” means materials in a school building that are applied by spray, trowel, or otherwise applied to surfaces. These include sprayed-applied fireproofing materials on structural members, ceiling and wall plasters, or other materials applied to surfaces for acoustical, fireproofing, or other purposes.

Surfacing Materials are generally considered friable and can release asbestos fibers if damaged by impact, air erosion, vibration, and/or water intrusion. When properly implemented, the following procedures will reduce the potential for fiber release:

1. Sprayed-Applied Fireproofing
  - a) Identify the materials and post warning signs on the laid-in or glued-in ceiling tile. If the decking is not covered, place the sign on the wall.
  - b) Maintain the materials in intact state and undamaged condition. During winter, pigeons, squirrels and other rodents tend to roost in boiler/machine rooms and dislodge sprayed-applied fireproofing on the decking. Prevent such possibilities.
  - c) Prevent water leakage. If the material is significantly damaged, removal is the best option. For minor damage, enclosure is a temporary solution. Encapsulation of damaged sprayed-on fireproofing material is not recommended.
  - d) Train the custodial people who are responsible for care and maintenance of surfacing materials. Please note that the repair/removal can only be performed by a licensed abatement contractor.
  
2. Ceiling and Wall Plasters
  - a) Identify the materials and post asbestos warning signs.
  - b) Maintain the materials in intact state and undamaged condition. Avoid storing/stacking on/near the materials to reduce contact damage.
  - c) Prevent water leakage. If the material is significantly damaged, removal is the best option. For minor damage, repair or enclosure is a temporary solution.
  - d) Train the custodial people who are responsible for care and maintenance of surfacing materials.

### B. Thermal System Insulation (TSI)

“Thermal System Insulation (TSI)” means insulating materials applied to pipes, pipe fittings, boilers, breechings, tanks, ducts, or other components to prevent process heat loss or gain, water condensation, or for other purposes (e.g., fire door insulation core).

TSI are generally considered friable ACBM. This means they can be easily damaged, increasing the potential for fiber release. When properly implemented, the following procedures will reduce the potential for fiber release:

1. Boiler and Breeching Insulation
  - a) Identify the locations and label the boiler. Warning signs should be posted outside the boiler room.
  - b) Reduce the likelihood of fiber release by ensuring that the insulation is not damaged. Avoid storing/stacking on/near the boiler to reduce contact damage.
  - c) Maintain the insulation in intact state and undamaged condition. Repair damaged areas as soon as possible to prevent further deterioration. If repair is not feasible due to extensive damage/deterioration, remove the material.
  - d) Train the custodial people who are responsible for care and maintenance of TSI. Please note that the repair/removal can only be performed by a licensed abatement contractor.
  
2. Pipe, Pipe Fitting, Tank, Duct & Breeching Insulations
  - a) Identify the locations and label the materials. Warning signs should be posted outside of rooms that have TSI materials.
  - b) Reduce the likelihood of fiber release by ensuring that the materials are not damaged. Avoid storing/stacking near the materials to reduce contact damage.
  - c) Maintain all TSI materials in intact state and undamaged condition. Inspect the protective jackets for damage. Repair damaged areas as soon as possible to prevent further deterioration. If repair is not feasible due to extensive damage/deterioration, remove the material.
  - d) Train the custodial people who are responsible for care and maintenance of TSI. Please note that the repair/removal can only be performed by a licensed abatement contractor.

### **C. Miscellaneous Materials**

“Miscellaneous Materials” are the other ACBM in a school building that are not categorized as Surfacing Materials or TSI. These include floor tiles, floor tile and carpet mastics, gypsum wallboard and joint compound, ceiling tiles, glue daubs, asbestos cement panels, cove base and associated glue, window/door caulking and glazing compounds, etc. The following maintenance procedures are recommended for these materials:

1. Vinyl Asbestos Floor Tiles (VAT)

Vinyl Asbestos Floor Tiles (VAT) are considered non-friable, however routine maintenance procedures such as spray-buffing, burnishing, wet scrubbing, and stripping can generate asbestos fibers. Following procedures, when properly implemented, will reduce the potential of fiber release:

- a) Do not sand, grind, or abrade the tiles. Stripping of VAT should be done as infrequently as possible. When stripping becomes necessary, follow the appropriate work practices. Never perform dry stripping.
- b) During spray-buffing or burnishing the floor, operate the machine at the lowest workable speed and use the least abrasive pad. Use a wet mop for routine cleaning whenever possible.
- c) Routinely check whether chair and desk glides are in good condition and replace when necessary. Worn glides can gouge the floor and cause fiber release.
- d) Place carpets/floor mats in all entrances to reduce abrasion of floor tiles by sand and pebbles. During winter, have parking lots and walkways swept to the extent possible to avoid the tracking of salt and ice-melting compounds into the school by the students.
- e) Train the custodial people who are responsible for care and maintenance of VAT. Please note that the repair/removal can only be performed by a licensed abatement contractor.

2. Wallboard and Joint Compound Assembly

- a) Since a number of different homogeneous assemblies may exist in a building, sheetrock/joint compound must be assumed to be ACM unless sample results prove otherwise. If any specific areas are going to be disturbed, samples of the material in that area should be collected and analyzed.
- b) Reduce the likelihood of fiber release by avoiding cutting or drilling holes through the sheetrock panels.

3. Ceiling Tile and Glue Daubs

- a) Reduce the likelihood of fiber release by limiting access to the space above the ceiling tiles. Maintain the ceiling tiles in undamaged condition. Replace any damaged or water-stained tile.
- b) If the ceiling tiles are non-asbestos, collect samples and analyze the glue daubs to identify asbestos-content before disturbing the tiles.

4. Asbestos Cement Panels, Window/Door Caulking and Glazing Compounds

- a) Maintain asbestos cement panels and window/door caulking and glazing compounds in undamaged condition.

5. Carpet Glue, Blackboard/Tack Board Glue, Floor Tile Mastic, Cove Base, and Mastic

- a) Reduce the likelihood of fiber release by leaving materials in place.
- b) Maintain materials in good condition. Collect samples and analyze to identify asbestos-content before disturbing.

## **Appendix H**

---

### Fuss & O'Neill Asbestos Accreditations & Certifications



THE COMMONWEALTH OF MASSACHUSETTS  
EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT  
DEPARTMENT OF LABOR STANDARDS

Michael Flanagan  
Director

Asbestos Inspector

ROBERT C. MALLET

Eff. Date 06/01/20

Exp. Date 06/01/21

AI900557

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

bosnew BOS-renew

21





*This is to certify that*

**Robert C Mallett**



*has completed the requisite training, and has passed an examination for  
reaccreditation as:*

## Asbestos Inspector Refresher

pursuant to Title II of the Toxic Substance Control Act; 15 U.S.C. 2646

Course Location

Institute for Environmental Education  
16 Upton Drive Wilmington, MA 01887

January 6, 2020

Course Dates

January 06, 2020

Examination Date

20-2958-106-402379

Certificate Number

January 06, 2021

Expiration Date

Training Director

16 Upton Drive, Wilmington, MA 01887

Telephone 978.658.5272

[www.ieetrains.com](http://www.ieetrains.com)

**INSTITUTE FOR ENVIRONMENTAL EDUCATION**



THE COMMONWEALTH OF MASSACHUSETTS  
EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT  
DEPARTMENT OF LABOR STANDARDS

Michael Flanagan  
Interim Director

**Asbestos Management Planner**

**DUSTIN A. DIEDRICKSEN**

Eff. Date 04/16/20

Exp. Date 04/16/21

AP900425

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

BOSR

BOS-RENEW

21





*This is to certify that*

**Dustin A Diedricksen**

*has completed the requisite training, and has passed an examination for  
reaccreditation*

## Asbestos Management Planner Refresher

pursuant to Title II of the Toxic Substance Control Act, 15 U.S.C. 2646

Course Location

Institute for Environmental Education  
16 Upton Drive Wilmington, MA 01887

December 18, 2019

Course Dates

19-2404-136-402162

Certificate Number

December 18, 2019

Examination Date

December 18, 2020

Expiration Date

Training Director

16 Upton Drive, Wilmington, MA 01887

Telephone 978.658.5272

[www.ieetrains.com](http://www.ieetrains.com)

**INSTITUTE FOR ENVIRONMENTAL EDUCATION**