

Office Locations: Newington, CT Fairfield, CT Boston, MA

July 11, 2001

Mr. Robert Watmough Director of Business Services Bourne Public Schools 36 Sandwich Road Bourne, MA02532

RE: 3-Year AHERA Asbestos Re-inspection and

Management Plan Update

Bourne Schools Administration Building, Bourne, MA

EnviroScience Project No. 01-317.10

Dear Mr. Watmough:

Enclosed is the report of the three-year AHERA asbestos re-inspection and management plan update conducted by EnviroScience Consultants, Inc. (EnviroScience) at the Bourne Schools Administration Building. This report is an important document that must be kept on file at the school as well as at a central location where all the Management Plans are preserved.

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

Sincerely,

Robert L. May, Jr.

Manager, Hazardous Materials

RLM:ec

Enclosure

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Office Locations: Newington, CT Fairfield, CT Boston, MA

## $\frac{\text{ASBESTOS HAZARD EMERGENCY RESPONSE ACT}}{\text{THREE-YEAR ASBESTOS RE-INSPECTION AND MANAGEMENT PLAN UPDATE}}{\text{FOR}}$

## BOURNE SCHOOLS ADMINISTRATION BUILDING BOURNE, MASSACHUSETTS

PERFORMED BY

ENVIROSCIENCE CONSULTANTS, INC. 795 NORTH MOUNTAIN ROAD NEWINGTON, CONNECTICUT 06111

For Compliance with

EPA Asbestos Hazard Emergency Response Act

(40 CFR Part 763)

July 11, 2001

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## 1.0 INTRODUCTION

This three-year asbestos re-inspection of the Bourne Schools Administration Building was conducted in accordance with the requirements of the following regulations:

(i) United States Environmental Protection Agency (USEPA) Asbestos Hazard Emergency Response Act (AHERA) regulation (40 CFR Part 763, Section 763.85 (b)).

Mr. Scott Valerian of EnviroScience Consultants, Inc. (EnviroScience) performed the reinspection on April 26, 2001. Mr. Valerian is an accredited Asbestos Inspector in the Commonwealth of Massachusetts (License No. AI41225). During the re-inspection, the following required tasks were performed:

- 1. A visual re-inspection and reassessment of all friable known or assumed asbestoscontaining building materials (ACBM).
- 2. A visual re-inspection of ACBM that was previously considered non-friable to determine if the present condition of the material has made it friable.
- 3. Identification and assessment of any homogeneous area that contained new friable ACBM.

## 2.0 BUILDING AND MECHANICAL SYSTEM DESCRIPTION

The Bourne Schools Administration Building is a multi-level wood frame structure that was constructed in 1935. Building areas include offices and a boiler room. The total gross area of this facility is approximately 3,830 square feet.

One hot water boiler provides radiant heating utilizing tube radiators.

### 3.0 RE-INSPECTION REPORT

## 3.1 Review of Existing Records

An important part of this AHERA re-inspection involved checking documentation that were required to be present at the building being inspected as well as at the central location where all management plans are preserved.

Please see Appendix A for details of our findings.

## 3.2 Re-inspection Summary

The on-site portion of the re-inspection was documented on forms modeled after examples provided by the United States Environmental Protection Agency (USEPA). The first form, Reinspection Form 1A, abstracts inspection data gathered during the initial AHERA inspection

(see Appendix B). This form is useful to reference response actions (if any) which have been performed since the last inspection. It additionally provides the inspector a "quick glance" reference when performing the re-inspection.

The second EPA form, Re-inspection Form 1B, is used to list all known or assumed asbestos-containing materials (ACM) that were previously unidentified (see Appendix C). It also lists the ACBM in areas newly acquired by the school for student use either permanently or temporarily.

The third EPA form, Re-inspection Form 2, was used to provide information and justification regarding reassessment of the ACBM (see Appendix D). This form also provides response action recommendations including a tentative schedule for completing response actions that recommended removal or repair.

Using the USEPA protocol and criteria, the following materials existing at the time of this reinspection have been determined and/or assumed to be **ACBM**. Please refer to the above mentioned Re-inspection Forms for specific locations of the materials identified on these forms.

Homogeneous Material	Reference	Location(s)
Chimney and breeching cement	A2	Boiler room

## 3.3 Newly Identified or Re-sampled ACBM Materials

No new materials were identified during the re-inpection.

The following areas could not be inspected because of inaccessibility:

Location	Area(s)	Possible ACM
Throughout the building	Behind walls and ceilings	Pipe insulation/mudded insulation on pipe
		fittings

Any suspect material encountered during renovation/demolition that is not specifically identified in this report as a non-ACM should be assumed to contain asbestos unless sample results prove otherwise.

The information obtained during this re-inspection was transmitted to Mr. James Scott, an accredited Management Planner, so that response actions relative to the condition of the ACBM could be designed. Mr. Scott is a licensed Asbestos Management Planner in the Commonwealth of Massachusetts (License No. AP71623).

## 3.4 Physical Assessment of ACBMs

During inspection, suspect ACBM were separated into three USEPA categories. These categories are thermal system insulation (TSI), surfacing ACBM, and miscellaneous ACBM. TSI includes all materials used to prevent heat loss or gain or water condensation on mechanical systems. Examples of TSI are pipe insulation, boiler insulation, duct insulation, and mudded

insulation on pipe-fittings. Surfacing ACBM is commonly used for fireproofing, decorative, and acoustical applications. Miscellaneous materials include all ACBM not listed in TSI or surfacing, such as linoleum, vinyl asbestos flooring, and ceiling tiles.

Finally, all ACBM were quantified in linear and/or square footage depending on the nature of the material.

All ACBM identified during the inspection and still remaining in the school were reassessed using the AHERA guidelines for assessment of ACBM. The assessment categories are listed as follows:

- 1 = Damaged or significantly damaged TSI ACBM
- 2 = Damaged friable surfacing ACBM
- 3 = Significantly damaged friable surfacing ACBM
- 4 = Damaged or significantly damaged friable miscellaneous ACBM
- 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 Reinspection forms.

## 4.0 MANAGEMENT PLAN UPDATE

## 4.1 Recommended Response Actions

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

### 1. Removal

Refer to Re-inspection Form 2 (Appendix D).

## 2. Repair

Refer to Re-inspection Form 2 (Appendix D).

## 3. Enclosure

Not Applicable

## 4. Encapsulation

Not Applicable

## 5. Operations and Maintenance (O & M)

ACBM with assessments of 1 through 6 may be recommended for removal or repair. All remaining ACBM in the school shall be placed in an Operations and Maintenance (O & M) Program. The condition of such materials will be monitored until all the ACBM have been removed from the building. A successful O & M Program include the following elements:

- a) <u>Cleaning</u>: All areas of the school where friable ACBM or friable suspected ACBM assumed to be ACM are present shall be cleaned at least once after the completion of the initial inspection. Additional cleaning may be necessary if the Management Planner make a written recommendation indicating 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 for any O & M activities that may disturb known or assumed ACM:
  - 1. Restrict entry into the area either by physically isolating or by scheduling.
  - 2. Post warning signs to prevent entry by unauthorized persons.
  - 3. Shut off or temporarily modify the air-handling system.
  - 4. Use proper work practices and engineering controls such as wet methods, protective clothing, HEPA-vacuums, mini enclosures/ glove bags etc. to inhibit spread of fibers.
  - 5. Place all asbestos debris and other contaminated materials in a sealed, leak-tight container for eventual disposal.
- c) <u>Minor Fiber Release Episodes</u>: The LEA shall ensure that the procedures described below are followed in the event of a minor fiber release episode (i.e., disturbance of 3 linear/square feet or less of friable ACM):
  - 1. Saturate the debris using wet method.
  - 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) <u>Major Fiber Release Episode</u>: The LEA shall ensure that the procedures described below are followed in the event of a major fiber release episode (i.e., disturbance of more than 3 linear/square feet of friable ACBM):
  - 1. Restrict entry into the area and post warning signs.
  - 2. Shut off or temporarily modify the air handling system to prevent spread of fibers to other areas of the school.
  - 3. The response for any major fiber release episode must be designed by persons accredited to design response actions and conducted by persons accredited to conduct response actions.

4. The LEA shall notify the Massachusetts Department of Labor and Workforce Development 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.

## 4.2 <u>Periodic Surveillance</u>

At least once every six (6) months after a management plan is in place, the LEA shall conduct periodic surveillance in the school that contains ACBM or assumed to contain ACM. The person conducting periodic surveillance shall visually inspect all areas in the school that have been identified in the management plan as having ACBM, record the date of surveillance, his/her name, and any changes in the condition of the materials and submit the record to the LEA Designated Person for inclusion in the management plan.

Please see Appendix E for Periodic Surveillance Form that may be used for conducting periodic surveillance.

## 4.3 Preventive Measures

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

Please see Appendix F for preventive measures designed for various types of ACM that may exist in the school.

## 5.0 EPA CERTIFICATION REQUIREMENTS

The certificates and the licenses for the individuals (Scott Valerian and James Scott) involved in performing the re-inspection and updating the management plan are provided in Appendix G.

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## APPENDIX A CHECKLIST FOR EXISTING RECORDS EnviroScience Consultants Inc.

## **CHECKLIST FOR EXISTING RECORDS**

Loca	al Education Agency (LEA): <u>Bourne Public Schools</u> 36 Sandwich Road, Bourne, MA		
Scho	ool Building: Bourne Schools Administration Building		
centi	following documentation is required to be present in both the LEA's Cralized location in the administrative office of the school. The information klist shall be verified to be present and complete as part of three year r	ition included	l in this
	DOCUMENTATION	LOCAT	
		School	LEA Office
1.	Original AHERA Inspection/Management Plan	Not seen	Yes
2.	Three year Re-inspection (First)	Not seen	Yes
3.	Three year Re-inspection (Second)	Not seen	No
4.	Three year Re-inspection (Third)	Not seen	Yes
5.	Notifications to Parents/Guardians and Teachers (yearly since last re-inspection)	Not seen	Yes
6.	Designated Person Identified and Proper Training (person must be named and have appropriate training)	Not seen	No
7.	Designated Person Periodic Surveillance (every six months since last re-inspection)	Not seen	No
8.	Record of Awareness Training for Maintenance Staff	Not seen	No
9.	Outside Vendor Awareness Notification	Not seen	No
10.	Warning Signs and Labels (required posting in Boiler room and mechanical spaces only)	Not seen	No
11.	Record of Response Actions (includes any abatement done since last re-inspection)	Not seen	Yes

Inspector: Scott Valerian Date: May 12, 2001

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## APPENDIX B RE-INSPECTION FORM 1A

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A Inspection 9/98	Response actions taken/ renovations/other comments		10 V — V = 4 5 5 4 V					
Date(s) of Original AHERA Inspection	Recorded Jocations		Beiler Reim					
S - 1940	Condition	(1-1)	N					
Building19351940	Friability		- ( <u>i</u>	- E	- N	: N	i. NF	- N
:	Material	Category	Surf. Misc.	TSI Surf. Mise,	TSI Smf. Misc.	1781 Surf. Misc.	YSI Surf. Misc.	TSI Surf. Misc.
School Banke. Andrews Astronal Editorials	Homogeneous sampling areas	Material description	( HIMMET & BREEZFINDS					
School Bank	ลสีเขาแoH	Sample	A2_					

Information abstracted by Sterre Vace LIA

Friability: F = friable, MF = nonfriable

AHERA assessment category:

1 = Dannaged or significantly dannaged TSI ACBM, 2 = Dannaged friable surfacing ACBM, 3 = Significantly dannaged friable surfacing ACBM, 4 = Dannaged or significantly dannaged friable miscellaneous ACBM, 5 = ACBM with potential for dannage, 6 = ACBM with potential for significant dannage, 7 = Any remaining friable ACBM or friable suspected ACBM

## APPENDIX C RE-INSPECTION FORM 1B

## APPENDIX D RE-INSPECTION FORM 2

Planner Recommendations
Management
Findings and
Reinspection of ACBM:
Reinspection Form 2.

School Box And Abases Castical Bidge.	ETABIES E		Building_1935-1940	25-1940	Date(s) of Reinspection 4.26.0)	
Homogeneous Sampling Area: Material Description <u>Curadates e Baeecharla Cented e</u>	ı: Material L	Description	C ELIMANES	SAEECHIDIC CEMENT	ID Number A2	
2	EINSPECT	ON FINDIN	REINSPECTION FINDINGS FOR ACBM	Ä	MANAGEMENT PLANNER RECOMMENDATIONS	SNOLLVONS
Location(s) of ACBM by assessment category	Quantity	Friability	Assessment category (1-7)	Assessment	Preventive mensures Begin	Schedule in Complete
BOILER ROOM	1.8	- (in)	N	Isocateto AREA W/ LOW, PUTENTIAL FOR DAMAGE, NO DAMAGE COSSEGALED.	7+0	ho-h
		- Ż				
		<u>- 2</u>				
Were additional samples of this ACBM collected?	is ACBM co	1	Y es (N0)		Date of Munagement Planuer review: 19,200 /	u 19,200/
Inspectors name Scert	Scort Valegian				Management Planner name Ances Scott Management Planner signature few C	Scott (a T
Accreditation II/State AT 41225	1225 /MA	A			Accreditation II/State A-0 7(623/1	/mA
1, the LEA's Designated Person, have read and understood the recommendations made above:	m, have read	and underste	od the recomm	nendations made above:	Date:	

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## APPENDIX E PERIODIC SURVEILLANCE FORM

EnviroScience Consultants Inc.

## PERIODIC SURVEILLANCE FORM

			***************************************		Comments	The state of the s								
		The state of the s			Quantity Damaged									
e, MA	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)				Change in Condition (Yes/No)									
Road, Bourn		100000000000000000000000000000000000000			Present Condition									
6 Sandwich			The same state of the same sta	PORT	Previous Condition									
Bourne Public Schools, 36 Sandwich Road, Bourne, MA	The Production of the Producti	The state of the s		ACBM DAMAGE REPORT	Location	THE THE PROPERTY AND ADDRESS OF THE		, Addesson.	- Company of the second		паде			(signature)
y (LEA):	estrationable communication and extension and evolution	:				MATALASAN LABAHASAN YAMAA MATALASAN YA AMARIYA AMARIYA AMARIYA AMARIYA AMARIYA AMARIYA AMARIYA AMARIYA AMARIYA					G = Good D = Damaged SD = Significant damage	by:	ALIAL ARRIVA PARA MARA AR	
Local Education Agency (LEA):_	Facility Address:		Date of Surveillance:		Asbestos Containing Material	овенува еме и алект и полутива водавато од остату полот на две павлучанива пое де том остату на вез вода на с		A STATE OF THE STA			Conditions: G = Good D = Damaged SD = Significan	Surveillance conducted by:		

# APPENDIX F PREVENTIVE MEASURES

EnviroScience Consultants inc.

## PREVENTIVE MEASURES FOR VARIOUS ASBESTOS-CONTAINING MATERIALS

## A. SURFACING MATERIALS

"Surfacing Materials" means materials in a school building that are sprayed-on, troweled-on, or otherwise applied to surfaces. These include sprayed-on 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. The following procedures, when properly implemented, will reduce the potential for fiber release:

## 1. Sprayed-on fire-proofing

- 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-on 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. <u>Ceiling and wall plaster</u>

- a) Identify the materials and post 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 asbestos-containing materials. This means they can be easily damaged, increasing the potential for fiber release. The following procedures, when properly implemented, 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-fittings, tank and duct insulation

- 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.

## 3. <u>Fire door</u>

- a) Identify the locations and label the materials.
- b) Since there may be a number of different types of fire doors throughout a building, fire door cores must be considered to have asbestos-containing interior insulation unless sample result prove otherwise. Prior to performing any maintenance on any door (lock change, drilling, etc.), the door should be surveyed by qualified personnel to rule out the existence of an asbestos core.
- c) 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.

EnviroScience Consultants inc.

## C. MISCELLANEOUS MATERIALS

"Miscellaneous Materials" are all other asbestos-containing materials in a school building that do not fall under the categories of Surfacing Materials or TSI. These include floor tiles, floor tile and carpet mastic, gypsum wallboard and joint compound, ceiling tiles, glue daubs, transite panels, laboratory counter tops, wallbase and associated glue, window caulking and glazing compounds etc. The following maintenance procedures are recommended for these materials:

## 1. Vinvl 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. Gypsum wallboard and joint compound assembly

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

## 3. <u>Ceiling Tile and Glue Daubs</u>

- a) Reduce the likelihood of fiber release by limiting access to the area above the ceiling tiles. Maintain the ceiling tiles in undamaged condition. Replace any damaged or water-stained tile.
- b) If the ceiling tiles are negative for asbestos, sample and analyze the glue daubs to ascertain whether these are asbestos-containing before the tiles are replaced.

## 4. Transite Panels. Laboratory Counter Tops. Window Caulking and Glazing Compounds

- a) Reduce the likelihood of fiber release.
- b) Maintain transite panels, lab tabletops and window caulking and glazing compounds in undamaged condition.

## 5. <u>Carpet Glue, Blackboard/ Tack Board Glue, Sink Undercoating, Floor Tile Mastic, Baseboard and Mastic</u>

- a) Reduce the likelihood of fiber release by leaving base cove and carpets in place.
- b) Maintain carpets and base cove in good condition. Sample and analyze the glue and the mastic to ascertain whether these are asbestos-containing if the renovation activities are going to impact the carpet and the baseboard.

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## APPENDIX G AHERA CERTIFICATES



Commonwealth of Massachusetts
Division of Occupational Safety
Robert J. Prezioso, Deputy Oirector

Asbestos Inspector

## JAMES L. SCOTT

Eff. Date - 07/19/2000 Exp. Date 07/18/2001 Al 70687

Memorar of C.D.N.E.S.

SP 000687



## Commonwealth of Massachusetts

Division of Occupational Safety

Booth Prezosa Deputy Director

Asbestos Management Planner

## JAMES L. SCOTT

Eff. Date 07/19/2000

Exp. Date07/18/2001

AP 71263

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



SP-8

State of Connecticut

Board of Trustees, Community-Technical Colleges

# Civital Community-Technical College

401 Flatbush Avenue, Hartford, CT 06106 -- (860) 987-4814

This is to certify that

## James Scott

153 North Washington Street, Belchertown MA 01007 SS# 389-90-6236 has successfully completed the

RIF. Asbestos Management Planner Refresher
Asbestos Accreditation under TSCA Title II
40 CFR Part 763

Ray T. Preuden

Principal Instructor

October 11, 2000

Date of Course

October 11, 2000: A

Examination Date & Grade

Training Manager

AMP-R-11/11-4 Certificate Number October 11, 2001

Expiration Date

Commonwealth of Massachusetts
Division of Occupational Safety

Robert J. Practos Deputy Director

R. SCOTT VALERIAN

Ett. Date 07/13/2000 Privile 100 Massachusetts

At 1225

