



August 26, 2015

VIA EMAIL: Ernest.Sandland@whrsd.k12.ma.us

Mr. Ernest Sandland
Facilities Department
Whitman Hanson Regional School District
600 Franklin Street
Whitman, MA 02382

AEC Project No. 421902

**Subject: AHERA 3-Year Re-inspection Report
Duval Elementary School
60 Regal Street
Whitman, Massachusetts**

Dear Mr. Sandland:

Please find enclosed the three-year re inspection report for the Duval School. If you require any further assistance please feel free to contact me at (781) 337-0016.

Thank you for allowing American Environmental Consulting, Inc (AEC) to assist you with this project.

Sincerely,
American Environmental Consulting, Inc

Gregory Hatch
Partner
MA Certified Asbestos Inspector (AI061535)
MA Certified Management Planner (AP061534)

The asbestos, lead, mold and hazardous material professionals

814 Broad St. ▪ Weymouth, MA 02189 ▪ 781-337-0016 ▪ Fax: 781-337-0986



**AHERA
3-YEAR REINSPECTION REPORT
DUVAL ELEMENTARY SCHOOL**

SUBMITTED TO:

**WHITMAN HANSON REGIONAL SCHOOL DISTRICT
600 Franklin Street
Whitman, MA 02382**

SUBMITTED BY:

**AMERICAN ENVIRONMENTAL CONSULTANTS, INC.
814 Broad Street
Weymouth, Massachusetts 02189**

PROJECT NO. 421902

August 26, 2015



**AHERA
3-YEAR REINSPECTION REPORT
DUVAL ELEMENTARY SCHOOL
60 REGAL STREET
WHITMAN, MASSACHUSETTS**

Submitted To:

Mr. Ernest Sandland
Facilities Department/LEA
Whitman Hanson Regional School District
600 Franklin Street
Whitman, MA 02382

Inspector:

Gregory Hatch

Partner
American Environmental Consultants, Inc
Massachusetts Inspector # AI061535

August 26, 2015



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1.0 INTRODUCTION

American Environmental Consultants, Inc (AEC) was retained by the Whitman Hanson Regional School District (WHRSD) to perform a three-year reinspection at the Duval Elementary School located at 60 Regal Street in Whitman, Massachusetts.

The inspection was performed on August 26, 2015 by AEC's Industrial Hygienist, Gregory Hatch, with Massachusetts State Accreditation # AI061535.

The purpose of this inspection is to visually reinspect and reassess all friable and non-friable known or assumed asbestos-containing building material (ACBM) within the school facility in compliance with the United States Environmental Protection Agency's (USEPA) Asbestos Hazard Emergency Response Act (AHERA) (40 CFR Part 763.85 [b]).

The reinspection was conducted in two phases.

PHASE I

- Review the existing management plan and discuss with the designated person response actions completed.
- Review abatement/remedial activities, work orders and training records since management plan implementation, if applicable.
- Obtain 8 1/2" x 11" drawings from the Local Education Agency (LEA).

PHASE II

- Visually re-inspect and reassess the condition of all friable known or assumed ACBM.
- Visually inspect material that was previously identified as non-friable ACBM and touch the material to determine whether it has become friable since the last inspection or reinspection.
- Identify homogeneous areas with materials that have become friable since the last inspection or reinspection.
- Assess the condition of any newly friable materials.
- Submit to the designated person any assessments or reassessments made of friable known or assumed ACBM as identified in the original inspection report.
- Submit a report detailing the results of the reinspection for inclusion into the LEA's management plans.

2.0 DISCUSSION

The management plan on file at the office of the LEA was reviewed and the following summarizes this review.

2.1 Designated Person

Mr. Ernest Sandland
Facilities Department
Whitman Hanson Regional School District
600 Franklin Street
Whitman, MA 02382

The AHERA regulation 763.84[g](1) states that "the general LEA shall designate a person to ensure that requirements under this section are properly implemented". Section 763.84[g](2) further states that "the LEA shall ensure that the designated person receives adequate training to perform duties assigned under this section".

2.2 Yearly Building Occupant Notification

"The designated person must ensure that workers and building occupants, or their legal guardians, are informed at least once each school year about inspections, response actions, and post-response action activities, including periodic re-inspection and surveillance activities that are planned or in progress", as per the AHERA regulation section 763.84(c).

The records for previous years have been incorporated into the management plan for the school and a copy is also attached in Appendix G. AEC recommends that copies of the records be incorporated into the management plans to satisfy the requirement to maintain and update the plan.

2.3 Custodial/Maintenance Personnel Training

Custodial and maintenance personnel hired are required to receive a minimum of 2 hours "asbestos awareness training". Training should be provided within 60 days of employment. The LEA documentation of Training is provided for in the Letter to Parent in Appendix G.

Documentation of the 2 hour Asbestos Awareness training for maintenance staff working currently in the building was available during the inspection and is attached in Appendix H. Documentation of training is included in the Management Plan. If any staff remains untrained, training should be provided and documented in the Management Plan.

2.4 Periodic Surveillance

The LEA shall conduct six-month periodic surveillance of all known ACBM present in each school in accordance with the AHERA Regulation. A 2 hour trained staff member may conduct the six-month inspection. The inspection is performed to document any changes in condition in the ACBMs.

Records were available documenting the six-month periodic surveillance inspections. AEC recommends documenting these periodic inspections and, that copies of these records be entered into the management plan to satisfy the requirement to maintain and update the plan. The records should be maintained in a central location. The attached Appendix B can be copied and used as a basis for the re-inspection.

2.5 Warning Labels

As per the AHERA regulation section 763.95[a], "the LEA shall attach a warning label immediately adjacent to any friable and non-friable ACBM and suspected ACBM assumed to be asbestos-containing material (ACM) located in routine maintenance areas (such as boiler rooms) at each school building". No suspect friable materials were observed in routine maintenance areas.

2.6 Summary of Response Actions

According to the LEA, there has not been any work in the school in the last three years therefore, no records of response actions were found in the management plan since the last AHERA 3-year inspection performed in January 2012.

3.0 REINSPECTION EPA ASSESSMENT SUMMARY

3.1 ACBM Remaining

Asbestos-containing and assumed asbestos containing building materials remaining in the building includes:

Surfacing Materials

No suspect accessible surfacing material was identified.

Thermal System Insulation

The thermal system insulation observed was non-ACM.

Miscellaneous Materials

Miscellaneous materials are located in areas throughout the school building. Detailed locations, amounts and condition information can be found in Appendix B and C.

3.2 Additional ACBM Identified

No additional ACBM was identified during the reinspection.

3.3 Results and Recommendations

The identified ACBM remaining in the Duval Elementary School was inspected and found to be in generally good condition.

The materials should continue to be maintained in place under the O & M plan until removal is made necessary by renovations or demolition.

4.0 CONCLUSIONS

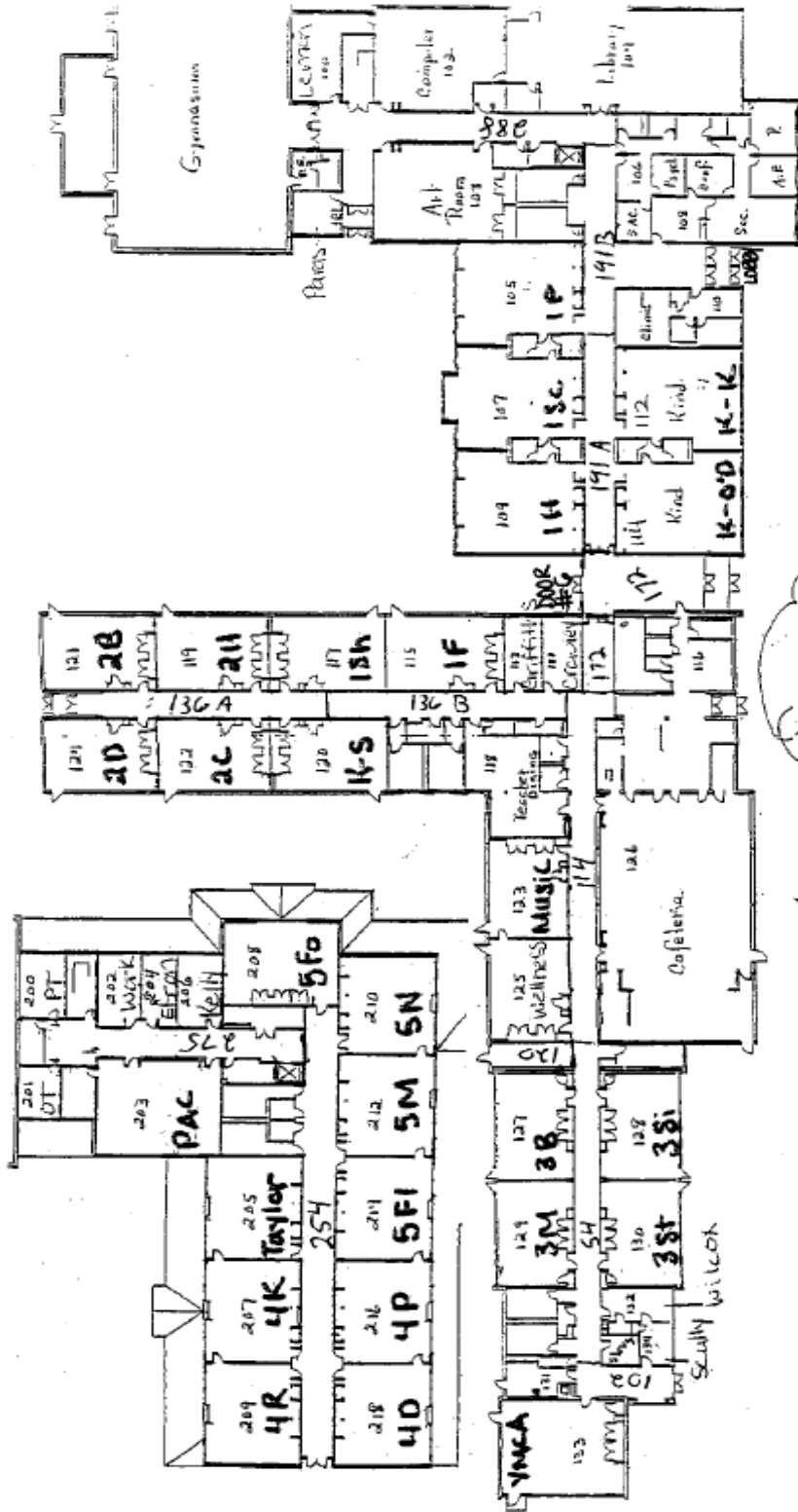
The AHERA three year reinspection at the Duval Elementary School was performed on August 26, 2015 in accordance with the AHERA regulations. A management plan audit was performed with additional results and recommendations for correction and updating the management plan listed in Section 2 of this report.

The ACM/PACM was found to be in good condition with a low potential for damage.

Recommendations/schedule/Cost:

- a. There will be a cost for response actions between this re-inspection and the next. This is dependant on renovation and operation/maintenance activities. There will be a cost related to consulting services and abatement contractor services.
- b. There will be time associated with each six month periodic inspection. It is anticipated that this activity would require a full 8 hour shift.

APPENDIX A
FLOOR PLANS



Mount Vernon Group Architects
 The Duval School

RECEIVED
 MAR 1977
 10/10/1977
 10/10/1977

APPENDIX B
ACBM REMAINING

ACBM REMAINING

The following abbreviations were used in the Reinspection Assessment Table that follows:

SF = Square Feet; LF = Linear Feet; EA = Each

The assessment is divided into two categories. The physical assessment and the hazard potential assessment as follows:

PHYSICAL ASSESSMENT:

The physical assessment is divided into the following seven categories and describes the material condition at the time of the inspection:

- Physical Condition #1 - Damaged or significantly damaged thermal insulation.
- Physical Condition #2 Damaged friable surfacing ACM.
- Physical Condition #3 Significantly damaged friable surfacing ACM.
- Physical Condition #4 Damaged or significantly damaged friable miscellaneous ACM.
- Physical Condition #5 ACBM with potential for damage.
- Physical Condition #6 ACBM with potential for significant damage.
- Physical Condition #7 Any remaining friable ACBM or friable suspected ACBM.

HAZARD ASSESSMENT:

The hazard assessment is a combination of the physical assessment combined with the potential for disturbance (i.e. physical contact, vibration air movement) as follows:

- Hazard rank #1 – Good condition/Low potential for disturbance
- Hazard rank #2 – Good condition/ Moderate potential for disturbance
- Hazard rank #3 – Good condition/ High potential for disturbance
- Hazard rank #4 – Fair condition/Low potential for disturbance
- Hazard rank #5 – Fair condition/Moderate potential for disturbance
- Hazard rank #6 – Fair condition/ High potential for disturbance
- Hazard rank #7 – Poor condition (significant damage)

Location: Building- Floor/Roo m or Area	Type of Material	Quantity	Homogenous Area Number	Physical/ Hazard Assessment	Condition	Friable/Non -Friable (F/NF)
NEWER WING – NORTH SIDE (2 Floors)						
1-2 sinks per classroom and Admin/ Office area	Black sink undercoat	35 EA	HA-10	5/1	Good	NF
Bathrooms	4" Gray Ceramic tile grout	1,000 SF	HA-11	5/1	Good	NF
Bathrooms	4" Gray Ceramic tile adhesive	1,000 SF	HA-12	5/1	Good	NF
Bathrooms	2" aqua ceramic tile grout	600 SF	HA-13	5/1	Good	NF
Bathrooms	2" aqua ceramic tile adhesive	600 SF	HA-14	5/1	Good	NF
Rooms 102, 104, 108, 202, 204, 206	Carpet mastic	6,000 SF	HA-15	5/1	Good	NF
Rooms 103 and 203	Gray sink undercoat	4 EA	HA-16	5/1	Good	NF
Gym storage/ID F room (IT)	Gray HVAC duct seal	150 SF	HA-17	5/2	Good	NF
Library/Of fice/Admin Areas	Black cove base	750 LF	HA-18	5/1	Good	NF
Library/Of fice/Admin Areas	Cove base mastic	750 LF	HA-19	5/1	Good	NF

Location: Building- Floor/Roo m or Area	Type of Material	Quantity	Homogenous Area Number	Physical/ Hazard Assessment	Condition	Friable/Non -Friable (F/NF)
SOUTH AND BACK WING						
1 sink per classroom	Black sink undercoat	22 EA	HA-10	5/1	Good	NF
Bathrooms	4" Gray Ceramic tile grout	700 SF	HA-11	5/1	Good	NF
Bathrooms	4" Gray Ceramic tile adhesive	700 SF	HA-12	5/1	Good	NF
Bathrooms	2" aqua ceramic tile grout	450 SF	HA-13	5/1	Good	NF
Bathrooms	2" aqua ceramic tile adhesive	450 SF	HA-14	5/1	Good	NF
Stage	Carpet mastic	300 SF	HA-15	5/1	Good	NF
Stage	Gray HVAC duct seal	130 SF	HA-17	5/1	Good	NF
Accent tile Hallway/ Cafeteria	12"x12" Burgundy VFT	800 SF	HA-20	5/1	Good	NF
Accent tile Hallway/ Cafeteria	Mastic	800 SF	HA-21	5/1	Good	NF
Accent tile Hallway	12"x12" Beige VFT	400 SF	HA-22	5/1	Good	NF
Accent tile Hallway	Mastic	400 SF	HA-23	5/1	Good	NF

** Multiple layers of flooring should be assumed throughout most areas of the school.

6- Month Periodic Re-inspection:

Date Re-inspected: _____ Re-inspection done by: _____

Changes in Condition: _____

APPENDIX C
HOMOGENOUS AREA SAMPLING GUIDE

HOMOGENOUS AREA SAMPLING GUIDE

Note: Where mastic is listed, it is associated with the material above. (i.e. Floor tile is followed by mastic and cove base is followed by mastic etc).

Duval School 3-YEAR REINSPECTION HOMOGENOUS MATERIAL TABLE							
August 7, 2015				Project No. 421902			
Homogenous Material Number	Material	Sampled (Yes/No)	ACM (Yes/No)	Date Sampled	How Many Samples	Lab Doing Analysis	Lab Project Number
HA-1	2'x4' faux 2'x2' ceiling tile	Y	N	8/7/15	2	SanAir	14159
HA-2	Aqua cove base	Y	N	8/7/15	2	SanAir	14159
HA-3	Cove base mastic	Y	N	8/7/15	2	SanAir	14159
HA-4	12"x12" white with chip VFT	Y	N	8/7/15	2	SanAir	14159
HA-5	VFT mastic	Y	N	8/7/15	2	SanAir	14159
HA-6	2'x4' acoustic ceiling tile	Y	N	8/7/15	2	SanAir	14159
HA-7	Sheetrock	Y	N	8/7/15	7	SanAir	14159
HA-8	Joint Compound	Y	N	8/7/15	7	SanAir	14159
HA-9	2'x4' sheetrock ceiling tile	Y	N	8/7/15	2	SanAir	14159
HA-10	Black sink undercoat	N	N/A	N/A	N/A	N/A	N/A
HA-11	4" Gray Ceramic tile grout	N	N/A	N/A	N/A	N/A	N/A

**Duval School
3-YEAR REINSPECTION
HOMOGENOUS MATERIAL TABLE**

August 7, 2015

Project No. 421902

Homogenous Material Number	Material	Sampled (Yes/No)	ACM (Yes/No)	Date Sampled	How Many Samples	Lab Doing Analysis	Lab Project Number
HA-12	4" Gray Ceramic tile adhesive	N	N/A	N/A	N/A	N/A	N/A
HA-13	2" aqua ceramic tile grout	N	N/A	N/A	N/A	N/A	N/A
HA-14	2" aqua ceramic tile adhesive	N	N/A	N/A	N/A	N/A	N/A
HA-15	Carpet mastic	N	N/A	N/A	N/A	N/A	N/A
HA-16	Gray sink undercoat	N	N/A	N/A	N/A	N/A	N/A
HA-17	Gray HVAC duct seal	Y	N	N/A	N/A	N/A	N/A
HA-18	Black cove base	N	N/A	N/A	N/A	N/A	N/A
HA-19	Cove base mastic	N	N/A	N/A	N/A	N/A	N/A
HA-20	12"x12" Burgundy VFT	N	N/A	N/A	N/A	N/A	N/A
HA-21	Mastic	N	N/A	N/A	N/A	N/A	N/A
HA-22	12"x12" Beige VFT	N	N/A	N/A	N/A	N/A	N/A
HA-23	Mastic	N	N/A	N/A	N/A	N/A	N/A

N/A – Not applicable as the material has not been sampled.

APPENDIX D

EPA AHERA SELF AUDIT CHECKLIST

**AHERA Asbestos Management Plan
Self-Audit Checklist for Designated Persons***

School:		Phone:
Address:		
County:		
Local Education Agency:		Phone:
Address:		
Designated Person:		Phone:
Address:		
Date Checklist Completed by Designated Person:		
Designated Person's Signature:		
Yes	No	N/A
<small>N/A - Not Applicable</small>		
School:		
General Information		
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	1. Has an Asbestos Management Plan been developed for your school? <small>(40 CFR § 763.93)</small>	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	2. Does the Local Education Agency (LEA) have a complete and up-to-date copy of the school's management plan in both the LEA's administrative office and the school's administrative office? <small>(40 CFR § 763.93(g)(2)-(3))</small>	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	3. Was the management plan developed by an accredited management planner?	Did you know? Your LEA <i>may</i> require each management plan to contain a statement signed by an accredited management plan developer that he/she has prepared or assisted in the preparation of the plan or has reviewed the plan and that the plan is in compliance with 40 CFR 763, Subpart E. The management plan developer that signs the statement may not also implement the plan (40 CFR § 763.93(f)).
<small>(40 CFR § 763.93(e))</small>		

*References to Model Asbestos Management Plan (AMP) forms are to the forms contained in EPA Region 2's guidance manual, published March 2004, entitled: "Model AHERA Asbestos Management Plan for Local Education Agencies." The Model AMP forms and this Self-Audit Checklist are not a substitute for the applicable legal requirements, are not regulations themselves, and are not required to be used/completed under AHERA. Rather, they are provided by EPA Region 2 as guidance to enhance schools' compliance with EPA AHERA regulations regarding the required documentation that must be included in the AMP. These documents do not impose legally binding requirements on any party, including EPA, states, or the regulated community, and are not intended and cannot be relied upon to create any rights, substantive or procedural, enforceable by any party in litigation with the United States. Please contact your state asbestos coordinator for any applicable state regulations/AMP Forms.



Yes No N/A <small>N/A - Not Applicable</small>	School:
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>4. For each consultant who contributed to the management plan, does the plan include the following:</p> <ul style="list-style-type: none"> • consultant's name? • a statement that he/she is accredited under the state accreditation program or another state's accreditation program or an EPA-approved course? <p style="text-align: right;">(40 CFR § 763.93 (e)(12)(i)-(ii))</p> <p>Note: Although not required, EPA suggests including in the AMP the name of the training agency, the course name and date, and a copy of the accreditation certificate for each consultant.</p> <p>*Tip: See suggested Model AMP Form 1 - Contact Information</p>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>5. Does the management plan include a list of the name and address of each building used as a school building and identify whether the school building has:</p> <ul style="list-style-type: none"> • friable ACBM (asbestos-containing building material)? • non-friable ACBM? • friable and non-friable suspected ACBM assumed to be ACM (asbestos-containing material)? <p style="text-align: right;">(40 CFR §§ 763.93(a)(1)-(2) and 763.93(e)(1))</p> <p>*Tip: See Model AMP Form 2 - School Building List</p>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>6. If a new school building was constructed after October 12, 1988 and is asbestos-free, does the management plan include the following and has a copy of same been provided by the LEA to the EPA Regional Office:</p> <ul style="list-style-type: none"> • a statement signed by an architect or project engineer responsible for the construction of the building, or by an accredited inspector, indicating that no ACBM was specified as a building material in any construction document for the building, or, to the best of his or her knowledge, no ACBM was used as a building material in the building? <p style="text-align: right;">(40 CFR § 763.99(a)(7))</p> <p>*Tip: See Model AMP Form 2 - School Building List</p>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>7. Does the management plan include a copy of any of the statements required under 40 CFR § 763.99(a)(1)-(7) to support an exclusion from inspection that the school may qualify for under 40 CFR § 763.99 and has a copy of any such statement been provided by the LEA to the Regional Office?</p> <p style="text-align: right;">(40 CFR § 763.99)</p> <p>Note: The exclusion under 40 CFR § 763.99(a)(7) is also covered under Checklist question number 6.</p>



Yes No N/A N/A - Not Applicable	School:
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>8. Does the management plan include the following information about the LEA Designated Person (DP):</p> <ul style="list-style-type: none"> • Name, address, and telephone number of the DP? • Course name, dates, and hours of training that the DP attended to carry out his or her AHERA duties? • Signed statement by the DP that the LEA's general responsibilities under 40 CFR § 763.84 have been or will be met? <p style="text-align: right;">(40 CFR § 763.93(c)(4) and (i))</p> <p>Note: Although not required, EPA suggests including in the AMP the name of the training agency and a copy of the DP's training certificates.</p> <p>*Tip: See Model AMP Form 1 - Contact Information and Form 3 - Designated Person Assurances</p>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>9. Does the management plan include the following recommendations:</p> <ul style="list-style-type: none"> • A plan for reinspection required under 40 CFR § 763.85? • A plan for operations and maintenance activities (including initial cleaning) required under 40 CFR § 763.91? • A plan for periodic surveillance required under 40 CFR § 763.92? • A description of the management planner's recommendation for additional cleaning under 40 CFR § 763.91(c)(2), as part of an operations and maintenance program, and the response of the LEA to that recommendation? <p style="text-align: right;">(40 CFR § 763.93(e)(9))</p> <p>*Tip: See Model AMP Form 10 - Plan for Reinspection, Form 14 - Plan for Operations and Maintenance Activities, Form 18 - Periodic Surveillance Plan/Report, and Form 16 Cleaning Record</p>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>10. Does the management plan include an evaluation of resources needed to carry out response actions, reinspections, operations and maintenance, and periodic surveillance and training?</p> <p style="text-align: right;">(40 CFR § 763.93(e)(11))</p> <p>*Tip: See suggested Model AMP Form 4 - Evaluation of Resources</p>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>11. Does the management plan include a record of the minimum 2 hours of awareness training required under 40 CFR § 763.92(a)(1) for all maintenance and custodial staff who may work in a building that contains ACBM, whether or not they are required to work with ACBM, and does the record include the following information:</p> <ul style="list-style-type: none"> • person's name and job title? • date training was completed? • location of training? • number of hours completed? <p style="text-align: right;">(40 CFR §§ 763.93(h) and 763.94(c))</p> <p>Note: Although not required, EPA suggests including in the AMP the name of the training agency, the course name, and a copy of the accreditation certificate for each staff person.</p> <p>*Tip: See Model AMP Form 5 - Training Record for Maintenance and Custodial Staff</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: auto; margin-right: auto;"> <p>Did you know? New custodial and maintenance employees must be trained within 60 days after starting work (40 CFR §763.92(a)(1)).</p> </div>



Yes No N/A N/A - Not Applicable	School:
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>12. Does the management plan include a record of the additional 14 hours of training required under 40 CFR § 763.92(a)(2) for maintenance and custodial staff who conduct any activities that will result in the disturbance of ACBM and does the record include the following information:</p> <ul style="list-style-type: none"> • person's name and job title? • date training was completed? • location of training? • number of hours completed? <p style="text-align: right;">(40 CFR §§ 763.93(h) and 763.94(c))</p> <p>Note: Although not required, EPA suggests including in the AMP the name of the training agency, the course name, and a copy of the accreditation certificate for each staff person.</p> <p>*Tip: See Model AMP Form 5 - Training Record for Maintenance and Custodial Staff</p>
Inspections and Reinspections	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>13. For inspections conducted before 12/14/87 (i.e., the effective date of the 10/30/87 EPA Asbestos-Containing Materials in Schools rule), does the management plan include the following information:</p> <ul style="list-style-type: none"> • date of inspection? • blueprint, diagram or written description of each school building that identifies clearly each location and approximate square or linear footage of homogenous /sampling area sampled for ACM? • if possible, the exact locations where the bulk samples were collected and the dates of collection? • a copy of the analyses of any bulk samples, dates of analyses, and a copy of any other laboratory reports pertaining to the analyses. • description of response actions or preventive measures taken, including, if possible, the names and addresses of all contractors, start and completion dates and air clearance sample results? • description of assessments of material identified prior to 12/14/87 as friable ACBM or friable suspected ACBM assumed to be ACM, and the name, signature, state of accreditation and if applicable, the accreditation number of the person making the assessments (i.e., inspector)? <p style="text-align: right;">(40 CFR § 763.93(e)(2)(i)-(v))</p> <p>*Tip: See Model AMP Form 6 - Inspection Cover Sheet, Form 8 - Homogeneous Area/Bulk Sample Summary, Form 9 - Homogeneous Area/Bulk Sample Diagram, Form 12 - Implementation of Response Actions, and Form 7 - Room/Functional Space Assessment</p>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>14. Does the management plan include for each inspection and reinspection conducted under 40 CFR § 763.85 the following information:</p> <ul style="list-style-type: none"> • date of the inspection or reinspection? • name, signature, state of accreditation, and, if applicable, the accreditation number for each accredited inspector performing the inspection or reinspection? <p style="text-align: right;">(40 CFR § 763.93(e)(3)(i))</p> <p>Note: Although not required, EPA suggests including in the AMP the name of the training agency, the course name and date, and a copy of the accreditation certificate for each inspector.</p> <p>*Tip: See Model AMP Form 6 - Inspection Cover Sheet</p>



Yes No N/A N/A - Not Applicable	School:
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>15. Does the management plan include for each inspection and reinspection conducted under 40 CFR § 763.85 the following sampling information:</p> <ul style="list-style-type: none"> • Blueprint, diagram, or written description of each school building that identifies clearly each location and approximate square or linear footage of homogeneous areas where material was sampled for ACM? • Exact location where each bulk sample was collected and the date of collection of each bulk sample? • Homogeneous areas where friable suspected ACBM is assumed to be ACM? • Homogeneous areas where nonfriable suspected ACBM is assumed to be ACM? • Description of the manner used to determine sampling locations? • The name, signature, state of accreditation, and, if applicable, the accreditation number for each accredited inspector that collected samples? <p style="text-align: right;">(40 CFR § 763.93(e)(3)(ii)-(iii))</p> <p>Note: For details on how to collect bulk samples, see 40 CFR § 763.86. Although not required, EPA suggests including in the AMP the name of the training agency, the course name and date, and a copy of the accreditation certificate for each inspector that collected the samples.</p> <p>*Tip: See Model AMP Form 6 - Inspection Cover Sheet, Form 8 - Homogeneous Area/Bulk Sample Summary, and Form 9 - Homogeneous Area/Bulk Sample Diagram</p>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>16. Does the management plan include for each inspection and reinspection conducted under 40 CFR § 763.85 the following information on the analysis of the bulk samples and has it been submitted to the DP for inclusion in the plan within 30 days of the analysis:</p> <ul style="list-style-type: none"> • Copy of the analysis of any bulk samples collected and analyzed? • Name and address of any laboratory that analyzed bulk samples? • A statement that any laboratory used meets the applicable laboratory accreditation requirements of 40 CFR § 763.87(a)? • Dates of any analyses performed? • Name and signature of the person performing each analysis? <p style="text-align: right;">(40 CFR §§ 763.87(d) and 763.93(e)(3)(iv))</p> <p>Note: For details on how to submit bulk samples for analysis, see 40 CFR § 763.87.</p>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>17. Does the management plan include for each inspection and reinspection conducted under 40 CFR § 763.85 the following assessment information and has it been submitted to the DP for inclusion in the plan within 30 days of the assessment:</p> <ul style="list-style-type: none"> • Written assessments (signed and dated) required to be made under 40 CFR § 763.88 of all ACBM and suspected ACBM assumed to be ACBM? • Name, signature, state of accreditation, and, if applicable, the accreditation number of each accredited person making the assessment (i.e., inspector(s)) <p style="text-align: right;">(40 CFR §§ 763.88(a)(2) and 763.93(c)(3)(v))</p> <p>Note: Although not required, EPA suggests including in the AMP the name of the training agency, the course name and date, and a copy of the accreditation certificate for each inspector making the assessment.</p> <p>*Tip: See Model AMP Form 6 - Inspection Cover Sheet and Form 7 - Room/Functional Space Assessment</p>



Yes No N/A N/A - Not Applicable	School:
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>18. Has the following information about the inspection been recorded and submitted to the DP for inclusion in the management plan within 30 days of the inspection:</p> <ul style="list-style-type: none"> • Inspection report with the date of inspection signed by each accredited inspector making the inspection, the state of accreditation, and if applicable, his/her accreditation number? • Inventory of the locations of the homogeneous areas where samples are collected, exact location where each bulk sample is collected, dates that samples are collected, homogeneous areas where friable suspected ACBM is assumed to be ACM and homogeneous areas where nonfriable suspected ACBM is assumed to be ACM? • Description of the manner used to determine sampling locations, the name and signature of each accredited inspector who collected the samples, state of accreditation, and, if applicable, his or her accreditation number? • List of whether the homogeneous areas identified under 40 CFR § 763.85(a)(4)(vi)(B) of this section, are surfacing material, thermal system insulation, or miscellaneous material? • Assessments of friable material (signed and dated), the name and signature of each accredited inspector making the assessment, state of accreditation, and if applicable, his or her accreditation number? <p style="text-align: right;">(40 CFR §§ 763.85(a)(4)(vi)(A)-(E) and 763.88(a)(2))</p> <p>Note: For further details on activities conducted during an inspection (e.g., visually inspect/touch material), see 40 CFR § 763.85(a)(4)(i)-(v)</p> <p>*Tip: See Model AMP Form 6 - Inspection Cover Sheet, Form 7 - Room/Functional Space Assessment, Form 8 - Homogeneous Area/Bulk Sample Summary and Form 9 - Homogeneous Area /Bulk Sample Diagram</p>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>19. Has the following information about the reinspection been recorded and submitted to the DP for inclusion in the management plan within 30 days of the reinspection:</p> <ul style="list-style-type: none"> • Date of reinspection, name and signature of the person making the reinspection, state of accreditation, and if applicable, his or her accreditation number, and any changes in the condition of known or assumed ACBM? • Exact location where samples were collected during the reinspection, a description of the manner used to determine sampling locations, the name and signature of each accredited inspector who collected the samples, state of accreditation, and, if applicable, his or her accreditation number? • Any assessments or reassessments of friable material, date of the assessment or reassessment, the name and the signature of the accredited inspector making the assessments, state of accreditation, and if applicable, his or her accreditation number? <p style="text-align: right;">(40 CFR §§ 763.85(b)(3)(vii)(A) - (C) and 763.88(a)(2))</p> <p>Note: At least once every 3 years after a management plan has been in effect, a reinspection must be conducted by an accredited inspector of all friable and nonfriable known or assumed ACBM in each school building that the LEA leases, owns, or otherwise uses as a school building (40 CFR § 763.85(b)(1)-(2)). For further details on activities conducted during a reinspection (e.g., visually reinspect/touch material), see 40 CFR § 763.85(b)(3)(i)-(vi).</p> <p>*Tip: See Model AMP Form 6 - Inspection Cover Sheet, Form 7 - Room/Functional Space Assessment, Form 8 - Homogeneous Area/Bulk Sample Summary, Form 9 - Homogeneous Area /Bulk Sample Diagram</p>



Yes No N/A N/A - Not Applicable	School:	
Response Actions		
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>20. Does the management plan include the recommendations made to the LEA regarding response actions under 40 CFR § 763.88(d) and the following information about the accredited management planner:</p> <ul style="list-style-type: none"> • name, signature, state of accreditation, and, if applicable, the accreditation number for each accredited management planner making the recommendations? <p style="text-align: right;">(40 CFR §§ 763.88(d) and 763.93(e)(5))</p> <p>Note: Although not required, EPA suggests including in the AMP the name of the training agency, the course name and date, and a copy of the accreditation certificate for each accredited person making the recommendations.</p> <p>*Tip: See Model AMP Form 11 - Recommended Response Actions</p>	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>21. Does the management plan include a detailed description of preventive measures and response actions to be taken, including the following:</p> <ul style="list-style-type: none"> • Methods to be used for any friable ACM? • Locations where such measures and actions will be taken? • Reasons for selecting the response action or preventive measure? • Schedule for beginning and completing each preventive measure or response action? <p style="text-align: right;">(40 CFR § 763.93(e)(6))</p> <p>Note: For further details on how to conduct response actions, see 40 CFR § 763.90</p> <p>*Tip: See Model AMP Form 11 - Recommended Response Actions</p>	<p>Did you know? The LEA may select, from the response actions which protect human health and the environment, the least burdensome action (40 CFR § 763.90(a)).</p>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>22. Does the management plan include one of the following statements for the person or persons who inspected for ACM and who will design or carry out response actions, except for operations and maintenance, with respect to the ACM:</p> <ul style="list-style-type: none"> • statement that he/she is accredited under the state accreditation program, or that the LEA has used (or will use) persons accredited under another state's accreditation program or an EPA-approved course? <p style="text-align: right;">(40 CFR § 763.93(e)(7))</p> <p>*Tip: See note on Model AMP Form 3 - Designated Persons Assurances</p>	



Yes No N/A N/A - Not Applicable	School:
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>23. Does the management plan include a detailed written description of each preventive measure and response action taken for friable and nonfriable ACM and friable and nonfriable suspected ACM assumed to be ACM, including the following:</p> <ul style="list-style-type: none"> • Methods used? • Location where the measure or action was taken? • Reasons for selecting the measure or action? • Start and completion dates of the work? • Names and addresses of all contractors involved and, if applicable, their state of accreditation and accreditation numbers? • If ACM is removed, the name and location of storage or disposal site of the ACM? <p style="text-align: right;">(40 CFR § 763.94(b)(1))</p> <p>Note: Although not required, EPA suggests including in the AMP a copy of the accreditation.</p> <p>*Tip: See Model AMP Form 12 - Implementation of Response Actions</p>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>24. Does the management plan include the following sampling information required to be collected at the completion of certain response actions specified by 40 CFR § 763.90(i):</p> <ul style="list-style-type: none"> • Name and signature of any person collecting any air sample required to be collected? • Locations where samples were collected? • Date of collection? • Name and address of the laboratory analyzing the samples? • Date of analysis? • Results of analysis? • Method of analysis? • Name and signature of the person performing the analysis? • Statement that the laboratory meets the applicable laboratory accreditation requirements of 40 CFR § 763.90(i)(2)(ii)? <p style="text-align: right;">(40 CFR § 763.94(b)(2))</p> <p>*Tip: See Model AMP Form 12 - Implementation of Response Actions</p>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>25. Does the management plan include a detailed description in the form of a blueprint, diagram, or written description, of any ACM or suspected ACM assumed to be ACM that remains in the school once response actions are undertaken under 40 CFR § 763.90 and is the description updated as response actions are completed?</p> <p style="text-align: right;">(40 CFR § 763.93(e)(8))</p>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>26. For each homogeneous area where all ACM has been removed, have records been retained in the management plan for at least 3 years after the next reinspection required under 40 CFR § 763.85(b)(1), or for an equivalent period?</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Did you know? Significantly damaged friable surfacing ACM or significantly damaged friable miscellaneous ACM must be immediately isolated and access must be restricted unless isolation is not necessary to protect human health and the environment. Then, this material must be removed, or depending upon whether enclosure or encapsulation would be sufficient to protect human health and the environment, enclosed or encapsulated (40 CFR § 763.90(d)(1) - (2)).</p> </div> <p style="text-align: right;">(40 CFR §§ 763.93(h) and 763.94(a))</p>



Yes No N/A N/A - Not Applicable	School:
Operations and Maintenance	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>27. Does the management plan include a record of each cleaning conducted under 40 CFR § 763.91(c), including the following:</p> <ul style="list-style-type: none"> • Name of each person performing the cleaning? • Date of the cleaning? • Locations cleaned? • Methods used to perform the cleaning? <p style="text-align: right;">(40 CFR §§ 763.93(h) and 763.94(e))</p> <p>Note: For details on initial cleaning after an inspection and before the initiation of any response action, other than O&M activities or repair, see 40 CFR § 763.91(c)(1) and for details on any additional cleaning recommended by the management planner and approved by the LEA, see 40 CFR § 763.91(c)(2).</p> <p>*Tip: See Model AMP Form 16 - Cleaning Record</p>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>28. Does the management plan include a record of each O&M activity and major asbestos activity, with the following information:</p> <ul style="list-style-type: none"> • Name of each person performing the activity? • For a major asbestos activity, the name, signature, state of accreditation and, if applicable, the accreditation number of each person performing the activity? • Start and completion date of each activity? • Location of the activity? • Description of the activity including preventative measures used? • If ACBM is removed, the name and location of the storage and disposal site for the ACM? <p style="text-align: right;">(40 CFR §§ 763.93(h) and 763.94(f) and(g))</p> <p>Note: The response actions for any maintenance activities disturbing friable ACBM, other than small-scale, short-duration maintenance activities, must be designed by persons accredited to design response actions and conducted by persons accredited to conduct response actions (40 CFR § 763.91(e)). Although not required, EPA suggests including in the AMP a copy of the accreditation.</p> <p>*Tip: See Model AMP Form 15 - Operations and Maintenance Activities</p>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>29. Does the management plan include a record of each fiber release episode, whether major or minor, with the following information:</p> <ul style="list-style-type: none"> • Date and location of the episode? • Method of repair? • Preventive measure or response action taken? • Name of each person performing the work? • If ACBM is removed, the name and location of the storage and disposal site of the ACM? <p style="text-align: right;">(40 CFR §§ 763.93(h) and 763.94(h))</p> <p>Note: A major fiber release episode is the falling or dislodging of more than 3 square or linear feet of friable ACBM (40 CFR § 763.91(f)(2)). A minor fiber release episode is the falling or dislodging of 3 square or linear feet or less of friable ACBM (40 CFR § 763.91(f)(1)).</p> <p>*Tip: See Model AMP Form 17 - Major/Minor Fiber Release Episode Log</p>



Yes No N/A N/A - Not Applicable	School:
Periodic Surveillance	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>30. Does the management plan include a record of each periodic surveillance performed under 40 CFR § 763.92(b), with the following information:</p> <ul style="list-style-type: none"> • Name of person performing the surveillance? • Date of the surveillance? • Any changes in the condition of the material? <p style="text-align: right;">(40 CFR §§ 763.92(b)(2)(ii)-(iii), 763.93(h) and 763.94(d))</p> <p>Note: A periodic surveillance of each school building must be conducted at least once every 6 months after a management plan has been in effect (40 CFR § 763.92(b)).</p> <p>*Tip: See Model AMP Form 18 - Periodic Surveillance Plan/Report</p>
Notification	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>31. Does the management plan include the following notification information:</p> <ul style="list-style-type: none"> • Description of the steps taken to notify, in writing, at least once a year, parent, teacher and employee organizations of the availability of the management plan for review? • Dated copies of all such management plan availability notifications (e.g., letter, newsletter)? • Description of the steps taken to inform workers and building occupants, or their legal guardians, about inspections, reinspections, response actions, and post-response action activities, including periodic reinspection and surveillance activities that are planned or in progress? (Under 40 CFR § 763.84(c), the LEA must inform them about these activities at least once each school year.) <p style="text-align: right;">(40 CFR §§ 763.93(e)(10) and 763.93(g)(4))</p> <p>*Tip: See Model AMP Form 19 - Plan to Inform</p>



Appendix A - Glossary

Unless otherwise noted with an asterisk (*), the following definitions contained in this Glossary can be found under 40 CFR § 763.83:

Act means the Toxic Substances Control Act (TSCA), 15 U.S.C. 2601, et seq.

Accessible when referring to asbestos-containing material means that the material is subject to disturbance by school building occupants or custodial or maintenance personnel in the course of their normal activities.

Accredited or *accreditation* when referring to a person or laboratory means that such person or laboratory is accredited in accordance with section 206 of Title II of the Act.

Air erosion means the passage of air over friable asbestos-containing building material (ACBM) which may result in the release of asbestos fibers.

Asbestos means the asbestiform varieties of: Chrysotile (serpentine); crocidolite (riebeckite); amosite (cummingtonite/grunerite); anthophyllite; tremolite; and actinolite.

Asbestos-containing material (ACM) when referring to school buildings means any material or product which contains more than 1 percent asbestos.

Asbestos-containing building material (ACBM) means surfacing ACM, thermal system insulation ACM, or miscellaneous ACM that is found in or on interior structural members or other parts of a school building.

Asbestos debris means pieces of ACBM that can be identified by color, texture, or composition, or means dust, if the dust is determined by an accredited inspector to be ACM.

Damaged friable miscellaneous ACM means friable miscellaneous ACM which has deteriorated or sustained physical injury such that the internal structure (cohesion) of the material is inadequate or, if applicable, which has delaminated such that its bond to the substrate (adhesion) is inadequate or which for any other reason lacks fiber cohesion or adhesion qualities. Such damage or deterioration may be illustrated by the separation of ACM into layers; separation of ACM from the substrate; flaking, blistering, or crumbling of the ACM surface; water damage; significant or repeated water stains, scrapes, gouges, mars or other signs of physical injury on the ACM. Asbestos debris originating from the ACBM in question may also indicate damage.

Damaged friable surfacing ACM means friable surfacing ACM which has deteriorated or sustained physical injury such that the internal structure (cohesion) of the material is inadequate or which has delaminated such that its bond to the substrate (adhesion) is inadequate, or which, for any other reason, lacks fiber cohesion or adhesion qualities. Such damage or deterioration may be illustrated by the separation of ACM into layers; separation of ACM from the substrate; flaking, blistering, or crumbling of the ACM surface; water damage; significant or repeated water stains, scrapes, gouges, mars or other signs of physical injury on the ACM. Asbestos debris originating from the ACBM in question may also indicate damage.

Damaged or significantly damaged thermal system insulation ACM means thermal system insulation ACM on pipes, boilers, tanks, ducts, and other thermal system insulation equipment where the insulation has lost its



structural integrity, or its covering, in whole or in part, is crushed, water-stained, gouged, punctured, missing, or not intact such that it is not able to contain fibers. Damage may be further illustrated by occasional punctures, gouges or other signs of physical injury to ACM; occasional water damage on the protective coverings/jackets; or exposed ACM ends or joints. Asbestos debris originating from the ACBM in question may also indicate damage.

Designated Person means a person appointed by the Local Education Agency (LEA), under 40 CFR § 763.84 (g), who is trained to ensure the proper implementation of AHERA in school buildings. *

Encapsulation means the treatment of ACBM with a material that surrounds or embeds asbestos fibers in an adhesive matrix to prevent the release of fibers, as the encapsulant creates a membrane over the surface (bridging encapsulant) or penetrates the material and binds its components together (penetrating encapsulant).

Enclosure means an airtight, impermeable, permanent barrier around ACBM to prevent the release of asbestos fibers into the air.

Fiber release episode means any uncontrolled or unintentional disturbance of ACBM resulting in visible emission.

Friable when referring to material in a school building means that the material, when dry, may be crumbled, pulverized, or reduced to powder by hand pressure, and includes previously nonfriable material after such previously nonfriable material becomes damaged to the extent that when dry it may be crumbled, pulverized, or reduced to powder by hand pressure.

Functional space means a room, group of rooms, or homogeneous area (including crawl spaces or the space between a dropped ceiling and the floor or roof deck above), such as classroom(s), a cafeteria, gymnasium, hallway(s), designated by a person accredited to prepare management plans, design abatement projects, or conduct response actions.

High-efficiency particulate air (HEPA) refers to a filtering system capable of trapping and retaining at least 99.97 percent of all monodispersed particles 0.3 μm in diameter or larger.

Homogeneous area means an area of surfacing material, thermal system insulation material, or miscellaneous material that is uniform in color and texture.

Local education agency (LEA) means: (1) Any local educational agency as defined in section 198 of the Elementary and Secondary Education Act of 1965 (20 U.S.C. 3381). (2) The owner of any nonpublic, nonprofit elementary, or secondary school building. (3) The governing authority of any school operated under the defense dependent's education system provided for under the Defense Dependents' Education Act of 1978 (20 U.S.C. 921, et seq.).

Miscellaneous ACM means miscellaneous material that is ACM in a school building.

Miscellaneous material means interior building material on structural components, structural members or fixtures, such as floor and ceiling tiles, and does not include surfacing material or thermal system insulation.



Nonfriable means material in a school building which when dry may not be crumbled, pulverized, or reduced to powder by hand pressure.

Operations and maintenance program means a program of work practices to maintain friable ACBM in good condition, ensure clean up of asbestos fibers previously released, and prevent further release by minimizing and controlling friable ACBM disturbance or damage.

Phase contrast microscopy (PCM) refers to the procedure outlined in NIOSH Method 7400 for the evaluation of fibers in air samples.*

Polarized light microscopy (PLM) refers to the method outlined in 40 CFR § 763, Appendix E to Subpart E, for the identification of asbestos in bulk samples.*

Potential damage means circumstances in which: (1) Friable ACBM is in an area regularly used by building occupants, including maintenance personnel, in the course of their normal activities. (2) There are indications that there is a reasonable likelihood that the material or its covering will become damaged, deteriorated, or delaminated due to factors such as changes in building use, changes in operations and maintenance practices, changes in occupancy, or recurrent damage.

Potential significant damage means circumstances in which: (1) Friable ACBM is in an area regularly used by building occupants, including maintenance personnel, in the course of their normal activities. (2) There are indications that there is a reasonable likelihood that the material or its covering will become significantly damaged, deteriorated, or delaminated due to factors such as changes in building use, changes in operations and maintenance practices, changes in occupancy, or recurrent damage. (3) The material is subject to major or continuing disturbance, due to factors including, but not limited to, accessibility or, under certain circumstances, vibration or air erosion.

Preventive measures means actions taken to reduce disturbance of ACBM or otherwise eliminate the reasonable likelihood of the material's becoming damaged or significantly damaged.

Removal means the taking out or the stripping of substantially all ACBM from a damaged area, a functional space, or a homogeneous area in a school building.

Repair means returning damaged ACBM to an undamaged condition or to an intact state so as to prevent fiber release.

Response action means a method, including removal, encapsulation, enclosure, repair, operations and maintenance, that protects human health and the environment from friable ACBM.

Routine maintenance area means an area, such as a boiler room or mechanical room, that is not normally frequented by students and in which maintenance employees or contract workers regularly conduct maintenance activities.

School means any elementary or secondary school as defined in section 198 of the Elementary and Secondary Education Act of 1965 (20 U.S.C. 2854).



School building means: (1) Any structure suitable for use as a classroom, including a school facility such as a laboratory, library, school eating facility, or facility used for the preparation of food. (2) Any gymnasium or other facility which is specially designed for athletic or recreational activities for an academic course in physical education. (3) Any other facility used for the instruction or housing of students or for the administration of educational or research programs. (4) Any maintenance, storage, or utility facility, including any hallway, essential to the operation of any facility described in this definition of "school building" under paragraphs (1), (2), or (3). (5) Any portico or covered exterior hallway or walkway. (6) Any exterior portion of a mechanical system used to condition interior space.

Significantly damaged friable miscellaneous ACM means damaged friable miscellaneous ACM where the damage is extensive and severe.

Significantly damaged friable surfacing ACM means damaged friable surfacing ACM in a functional space where the damage is extensive and severe.

State means a State, the District of Columbia, the Commonwealth of Puerto Rico, Guam, American Samoa, the Northern Marianas, the Trust Territory of the Pacific Islands, and the Virgin Islands.

Surfacing ACM means surfacing material that is ACM.

Surfacing material means material in a school building that is sprayed-on, troweled-on, or otherwise applied to surfaces, such as acoustical plaster on ceilings and fireproofing materials on structural members, or other materials on surfaces for acoustical, fireproofing, or other purposes.

Thermal system insulation (TSI) means material in a school building applied to pipes, fittings, boilers, breeching, tanks, ducts, or other interior structural components to prevent heat loss or gain, or water condensation, or for other purposes.

Thermal system insulation ACM means thermal system insulation that is ACM.

Transmission electron microscopy (TEM) refers to the method outlined in 40 CFR § 763, Appendix A to Subpart E, for the identification of asbestos in air samples.*

Vibration means the periodic motion of friable ACBM which may result in the release of asbestos fibers.



Appendix B - Acronyms

ACM - Asbestos-containing material

ACBM - Asbestos-containing building material

AHERA - Asbestos Hazard Emergency Response Act

DOT - Department of Transportation

DP - AHERA Designated Person

EPA - U.S. Environmental Protection Agency

HEPA - High-efficiency particulate air

LEA - Local Education Agency

NIOSH - National Institute for Occupational Safety and Health

NIST - National Institute of Standards and Technology

NVLAP - National Voluntary Laboratory Accreditation Program

O&M - Operations and maintenance

OSHA - Occupational Safety and Health Administration

PCM - Phase contrast microscopy

PLM - Polarized light microscopy

TEM - Transmission electron microscopy

TSI - Thermal system insulation




APPENDIX E

MANAGEMENT PLANNER TRAINING INFORMATION

MANAGEMENT PLANNER INFORMATION

MANAGEMENT PLANNER: Gregory Hatch

COMPANY: American Environmental Consulting, Inc.
814 Broad Street
Weymouth, MA 02189
(781) 337-0016

SIGNATURE  DATE June 20, 2015

Accredited Course: Asbestos Management
Planner Training

State of
Accreditation: Massachusetts

Training
Provided By: Kaselaan & D'Angelo

Refresher Course
Training Provided
By: RI Analytical 11/12/2014

Refresher Course
Certificate #: RI142519

State Certification #: AP 061534

Date of Certification: 2/6/15

APPENDIX F

SAMPLE ANALYSIS RESULTS

SanAir Technologies Laboratory

Analysis Report

prepared for

AEC Laboratories, LLC

Report Date: 8/18/2015
Project Name: Duval School
Project #: 14159
SanAir ID#: 15024206



NVLAP LAB CODE 200870-0



Certification # 652931



License # LAB0166



804.897.1177

www.sanair.com



SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: <http://www.sanair.com> E-mail: iaq@sanair.com

AEC Laboratories, LLC
814 Broad Street
Weymouth, MA 02189

August 18, 2015

SanAir ID # 15024206
Project Name: Duval School
Project Number: 14159

Dear G. Hatch,

We at SanAir would like to thank you for the work you recently submitted. The 28 sample(s) were received on Tuesday, August 11, 2015 via FedEx. The final report(s) is enclosed for the following sample(s): 080715-01A, 080715-01B, 080715-02A, 080715-02B, 080715-03A, 080715-03B, 080715-04A, 080715-04B, 080715-05A, 080715-05B, 080715-06A, 080715-06B, 080715-07A, 080715-07B, 080715-07C, 080715-07D, 080715-07E, 080715-07F, 080715-07G, 080715-08A, 080715-08B, 080715-08C, 080715-08D, 080715-08E, 080715-08F, 080715-08G, 080715-09A, 080715-09B.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

Sandra Sobrino
Asbestos & Materials Laboratory Manager
SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

sample conditions:

28 sample(s) in Good condition



SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: <http://www.sanair.com> E-mail: iaq@sanair.com

SanAir ID Number

15024206

FINAL REPORT

Name: AEC Laboratories, LLC
Address: 814 Broad Street
Weymouth, MA 02189

Project Number: 14159
P.O. Number:
Project Name: Duval School

Collected Date: 8/7/2015
Received Date: 8/11/2015 10:20:00 AM
Report Date: 8/18/2015 5:50:02 PM
Analyst: Vaughan, Nathaniel

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
080715-01A / 15024206-001 Room 206 2'x4' ACT	White Fibrous Heterogeneous	85% Cellulose	15% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
080715-01B / 15024206-002 Library 2'x4' ACT	White Fibrous Heterogeneous	85% Cellulose	15% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
080715-02A / 15024206-003 Custodial Closet At Rm 118 4" Cove Base	Green Non-Fibrous Heterogeneous		100% Other	None Detected


SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
080715-02B / 15024206-004 Elevator Machine Room 4" Cove Base	Green Non-Fibrous Heterogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
080715-03A / 15024206-005 Custodial Closet At Rm 118 Mastic	Yellow Non-Fibrous Heterogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
080715-03B / 15024206-006 Elevator Machine Room Mastic	Yellow Non-Fibrous Heterogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
080715-04A / 15024206-007 Custodial Closet At Rm 118 12x12 VFT	White Non-Fibrous Heterogeneous		100% Other	None Detected

Certification

Signature: 

Date: 8/18/2015

Reviewed: 

Date: 8/18/2015



SanAir Technologies Laboratory, Inc.

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139
804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: <http://www.sanair.com> E-mail: iaq@sanair.com

SanAir ID Number

15024206

FINAL REPORT

Name: AEC Laboratories, LLC
Address: 814 Broad Street
Weymouth, MA 02189

Project Number: 14159
P.O. Number:
Project Name: Duval School

Collected Date: 8/7/2015
Received Date: 8/11/2015 10:20:00 AM
Report Date: 8/18/2015 5:50:02 PM
Analyst: Vaughan, Nathaniel

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
080715-04B / 15024206-008 2nd Floor Supply Closet 12x12 VFT	White Non-Fibrous Heterogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
080715-05A / 15024206-009 Custodial Closet At Rm 118 Mastic	Yellow Non-Fibrous Heterogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
080715-05B / 15024206-010 2nd Floor Supply Closet Mastic	Yellow Non-Fibrous Heterogeneous		100% Other	None Detected


SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
080715-06A / 15024206-011 2nd Floor Supply Closet 2'x4' ACT	White Fibrous Heterogeneous	85% Cellulose	15% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
080715-06B / 15024206-012 Custodial Closet At Rm 118 2'x4' ACT	White Fibrous Heterogeneous	85% Cellulose	15% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
080715-07A / 15024206-013 Elevator Machine Rm Sheetrock	White Non-Fibrous Heterogeneous	10% Cellulose	90% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
080715-07B / 15024206-014 2nd Floor Supply Closet Sheetrock	White Non-Fibrous Heterogeneous	10% Cellulose	90% Other	None Detected

Certification

Signature: 
Date: 8/18/2015

Reviewed: 
Date: 8/18/2015



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804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: <http://www.sanair.com> E-mail: iaq@sanair.com

SanAir ID Number

15024206

FINAL REPORT

Name: AEC Laboratories, LLC
Address: 814 Broad Street
Weymouth, MA 02189

Project Number: 14159
P.O. Number:
Project Name: Duval School

Collected Date: 8/7/2015
Received Date: 8/11/2015 10:20:00 AM
Report Date: 8/18/2015 5:50:02 PM
Analyst: Vaughan, Nathaniel

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
080715-07C / 15024206-015 Custodial Closet At Rm 118 Sheetrock	White Non-Fibrous Heterogeneous	10% Cellulose	90% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
080715-07D / 15024206-016 Closet In Rm 125 Sheetrock	White Non-Fibrous Heterogeneous	10% Cellulose	90% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
080715-07E / 15024206-017 Kitchen Sheetrock	White Non-Fibrous Heterogeneous	10% Cellulose	90% Other	None Detected


SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
080715-07F / 15024206-018 Closet In Rm 128 Sheetrock	White Non-Fibrous Heterogeneous	10% Cellulose	90% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
080715-07G / 15024206-019 Rm 133 Music Rm Closet Sheetrock	White Non-Fibrous Heterogeneous	10% Cellulose	90% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
080715-08A / 15024206-020 Elevator Machine Rm Joint Compound	White Non-Fibrous Heterogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
080715-08B / 15024206-021 2nd Floor Supply Closet Joint Compound	White Non-Fibrous Heterogeneous		100% Other	None Detected

Certification

Signature: 

Date: 8/18/2015

Reviewed: 

Date: 8/18/2015



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804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070
Web: <http://www.sanair.com> E-mail: iaq@sanair.com

SanAir ID Number

15024206

FINAL REPORT

Name: AEC Laboratories, LLC
Address: 814 Broad Street
Weymouth, MA 02189

Project Number: 14159
P.O. Number:
Project Name: Duval School

Collected Date: 8/7/2015
Received Date: 8/11/2015 10:20:00 AM
Report Date: 8/18/2015 5:50:02 PM
Analyst: Vaughan, Nathaniel

Asbestos Bulk PLM EPA 600/R-93/116

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
080715-08C / 15024206-022 Custodial Closet At Rm 118 Joint Compound	White Non-Fibrous Heterogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
080715-08D / 15024206-023 Closet In Rm 125 Joint Compound	White Non-Fibrous Heterogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
080715-08E / 15024206-024 Kitchen Joint Compound	White Non-Fibrous Heterogeneous		100% Other	None Detected


SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
080715-08F / 15024206-025 Closet In Rm 128 Joint Compound	White Non-Fibrous Heterogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
080715-08G / 15024206-026 Rm 133 Music Rm Closet Joint Compound	White Non-Fibrous Heterogeneous		100% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
080715-09A / 15024206-027 Kitchen 2'x4' Sheetrock/ Fiberboard Ceiling Tile	White Fibrous Heterogeneous	90% Cellulose	10% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	Components		Asbestos Fibers
		% Fibrous	% Non-Fibrous	
080715-09B / 15024206-028 Kitchen 2'x4' Sheetrock/ Fiberboard Ceiling Tile	White Fibrous Heterogeneous	90% Cellulose	10% Other	None Detected

Certification

Signature: 

Date: 8/18/2015

Reviewed: 

Date: 8/18/2015

Disclaimer

The final report cannot be reproduced, except in full, without written authorization from SanAir. Fibers smaller than 5 microns cannot be seen with this method due to scope limitations. The accuracy of the results is dependent upon the client's sampling procedure and information provided to the laboratory by the client. SanAir assumes no responsibility for the sampling procedure and will provide evaluation reports based solely on the sample and information provided by the client. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government.

For NY state samples, method EPA 600/M4-82-020 is performed.

Polarized- light microscopy is not consistently reliable in detecting asbestos in floor covering and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

NY ELAP lab ID 11983

15024206

Notes: Billing is to go to Whitman Hanson RSD - Ernie Sandberg

Relinquished by: Ernie Sandberg Date/Time: 8/10/15 9:00 AM
 Received by: Valerie Davis Date/Time: 8/10/15
 Relinquished by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____

Client Name: American WARESD Phone: _____
 Client Address: _____
 Project: Daniel School
 Proj. Address: 60 Regal St Whitman State (Required): MA

Analysis: PLM Positive Stop Qualitative Point Count NOB Prep TEM Chat Lead PCB AEC Laboratories ID: 14159
 Turnaround Time: RUSH 24 Hour 48 Hour 3 Day 5 Day
 Sampled By: G. Hatch Verbal Results: Y/N
 Date: 8/10/15 Cell #: 20001
 Results to (PM): G. Hatch Name: _____

LAB ID	FIELD ID	LOCATION	SAMPLE DESCRIPTION	Homogenous Area	Material Type
	-01A	Room 206	Supply box 2x4 ACP		
	-01B	Library	↓		
	-02A	Custodial closet at Rm 118	Aqua 4" core base		
	-02B	elevator machine room	↓		
	-02A	SAME AS 02A	Mastic		
	-03B	" " 20B	↓		
	-04A	Custodial closet at Rm 118	White with chip 12x12 VET		
	-04B	2nd floor supply closet	↓		
	-05A	SAME AS 04A	Mastic		
	-05B	" " 04B	↓		
	-06A	2nd floor supply closet	Supply ACP		
	-06B	Custodial closet at Rm 118	↓		
	-07A	Elevator Machine Rm	Sheetrock		
	-07D	2nd floor supply closets	↓		
	-07C	Custodial closet at Rm 118	↓		
	-07D	Closet in Rm 123	↓		
	-07E	Kitchen	↓		
	-07F	Closet in Rm 123	↓		
	-07G	Rm 123 inside Rm closet	↓		
	-08A	SAME AS 07A	Joint Compound		
	-08B	↓	↓		
	-08C	↓	↓		

MC

1502.4206

Relinquished by: G. Hayes Date/Time: 8/10/15 9:00 AM
 Received by: _____ Date/Time: 8/10/15
 Relinquished by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____

Client Name: American Waters Phone: _____
 Client Address: _____
 Project: _____
 Proj. Address: _____ State (Required): _____

AEC Laboratories, LLC
 814 Broad Street
 Weymouth, MA 02189
 Phone: 781-337-0567
 Fax: 781-337-0986
 labreports@americanenviron.com

Page 2 of 2
BULK SAMPLE CHAIN OF CUSTODY

Analysis: PLM Positive Stop Qualitative Point Count NOB Prep TEM Chat Lead PCB

Turnaround Time: RUSH 24 Hour 48 Hour 3 Day 5 Day

Sampled By: G. Hayes Verbal Results: Y/N
 Date: 8/10/15 Cell #: 82001
 Results to (PM): G. Hayes Name: _____

AEC Laboratories ID: 14159
 Special Instructions: _____

LAB ID	FIELD ID	LOCATION	SAMPLE DESCRIPTION	Homogenous Area	Material Type
	<u>0865 - 08D</u>	<u>SAME AS 07D</u>	<u>Joint Compound</u>		
	<u>- 08E</u>	<u>07E</u>			
	<u>- 08F</u>	<u>07F</u>			
	<u>- 08G</u>	<u>07G</u>			
	<u>- 08H</u>	<u>Ratched</u>	<u>2x4' Sheetrock/Ratched ceiling tiles</u>		
	<u>- 08I</u>				
	<u>- 08J</u>				

APPENDIX G

MEMO TO PARENTS

ANNUAL ASBESTOS NOTIFICATION LETTER

For School Year 2014-2015

September 22, 2014

Re: Annual Notification of AHERA Management Plan

Dear Parents, Teachers, Employee Organizations, Building Occupants and Legal Guardians of Children:

In accordance with the Asbestos Hazard Emergency Response Act (AHERA) regulations concerning notification of plan availability, please be advised that copies of our District's Asbestos Management Plans are available online at www.whrsd.org under District Departments - > Facilities Services and then selecting Facilities Documents. Plans are also available in our District Central Office during normal operating hours.

The management plans are site-specific guidance documents that the District must follow in managing the asbestos-containing building materials (ACBM) present in some of the schools. The plan is updated to keep it current with on-going operations and maintenance, periodic inspections and response action activities. Our plan is undergoing a regulated review this school year.

Any inquiries regarding the management of asbestos containing materials in our schools should be directed to our district's AHERA Designated Person, Ernest Sandland, Facilities Manager, who can be reached at Whitman Hanson Regional High School; by e-mail at ernest.sandland@whrsd.org or via telephone at 781-618-7435.



Ernest Sandland

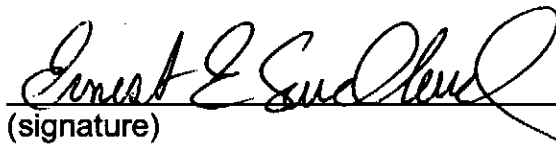
Facilities Manager



Whitman-Hanson Regional School District
600 Franklin Street
Whitman, Massachusetts 02382
Ernest Sandland, Facilities Manager
781-618-7435; email: sandland.ernest@whrsd.org

September 2014

I, Ernest Sandland, the Designated Person for the Whitman Hanson Regional School District, do hereby assure that the responsibilities of the LEA pursuant to 40 C.F.R. §763.84 will be met.


(signature)

___ Ernest E. Sandland ___
(print name)

___ 600 Franklin Street ___
(address)

___ 781-618-7435 ___
(telephone number)

The Designated Person has received the following training:

Asbestos and Operation and Maintenance Training
(title of course)

Wilmington, MA / IEE (Institute for Environmental of Education, INC)
(location of course/training provider)

___ 3/26/14, 3/27/14, 3/28/14 ___
(date of course)

___ 3 day/24 hour training ___
(number of hours)

APPENDIX H
EMPLOYEE TRAINING DOCUMENTATION

SAFETY TRAINING SIGN-IN SHEET

 Topic: 2 hour Asbestos Awareness Training per AHERA regulation 40 CFR 763

 Client: Whitman Hanson Schools Trainer: Paul Matuszko, CIH Date: 4/25/14

 Time: _____ Location: Whitman Hanson High School

 Department: Facilities Services Training Materials/Methods: _____

 Power point presentation, labels, quiz, etc.

Name (Print)	Name (sign)	Title	Dept.
1. Paul Matuszko	<i>Paul Matuszko</i>	TRAINER	FLI ENV
2. John F. Kemmett	<i>John F. Kemmett</i>	HVAC	Maintenance
3. Kevin Leadbetter	<i>Kevin Leadbetter</i>		Maintenance
4. James Bettere	<i>James Bettere</i>		" "
5. MATT CREW	<i>Matthew J. Crew</i>	- MAINTENANCE -	
6. Richard Finch	<i>Richard Finch</i>	MAINTENANCE	
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			



Paul Matuszko
Environmental Consulting

Two-Hour
ASBESTOS AWARENESS TRAINING
Review Quiz

Name: Richard FINCH Date: 4/25/14

Department: Maintenance Title/Job: MAINTANCE

Circle True (T) or False (F) which best answers each question:

- | | True | False |
|---|------------------------------------|------------------------------------|
| 1. Asbestos-containing material (ACM) is defined as a material containing any percentage of asbestos. | T | <input checked="" type="radio"/> F |
| 2. Agencies that regulate asbestos include; the Federal EPA and OSHA and the Massachusetts DEP and DLS. | <input checked="" type="radio"/> T | F |
| 3. Asbestos exposure and smoking increases a person's risk for developing lung cancer. | <input checked="" type="radio"/> T | F |
| 4. As long as you don't smoke, your body's defense mechanisms will always protect you from asbestos exposure. | T | <input checked="" type="radio"/> F |
| 5. A paper dust mask is sufficient to protect you from asbestos fibers inhalation. | T | <input checked="" type="radio"/> F |
| 6. The three classes of ACMs are <u>surfacing material</u> , <u>flooring materials</u> and <u>thermal system insulation</u> . | T | <input checked="" type="radio"/> F |
| 7. Asbestos is used in building materials due to its excellent insulating properties, chemical resistance, tensile strength and easy manufacturing production properties. | <input checked="" type="radio"/> T | F |
| 8. Products containing asbestos can still be commercially purchased in the USA. | <input checked="" type="radio"/> T | F |
| 9. The condition and friability of an ACM will determine its potential exposure hazard rating. | <input checked="" type="radio"/> T | F |
| 10. An Asbestos Management Plan is only concerned with exposed asbestos pipe insulation and surfacing material in public areas. | T | <input checked="" type="radio"/> F |
| 11. Anyone can legally remove asbestos in quantities less than 3 square or linear feet. | T | <input checked="" type="radio"/> F |
| 12. Amosite and crocidolite are the most commonly found asbestos types, while chrysotile is rare. | T | <input checked="" type="radio"/> F |
| 13. Building owners/managers are required to post labels and warning signs only in the main boiler room of a building. | T | <input checked="" type="radio"/> F |
| 14. The health effects of asbestos are acute and can be reversed over time. | T | <input checked="" type="radio"/> F |
| 15. In general, buildings constructed from 1945 to 1972 will contain the most ACMs. | <input checked="" type="radio"/> T | F |



Paul Matuszko
Environmental Consulting

**Two-Hour
ASBESTOS AWARENESS TRAINING
Review Quiz**

Name: John F Kemmick
(print)

Date: 4/25/14

Department: HVAC

Title/Job: Maintenance

Circle True (T) or False (F) which best answers each question:

	True	False
1. Asbestos-containing material (ACM) is defined as a material containing any percentage of asbestos.	T	<input checked="" type="radio"/> F
2. Agencies that regulate asbestos include; the Federal EPA and OSHA and the Massachusetts DEP and DLS.	<input checked="" type="radio"/> T	F
3. Asbestos exposure and smoking increases a person's risk for developing lung cancer.	<input checked="" type="radio"/> T	F
4. As long as you don't smoke, your body's defense mechanisms will always protect you from asbestos exposure.	T	<input checked="" type="radio"/> F
5. A paper dust mask is sufficient to protect you from asbestos fibers inhalation.	T	<input checked="" type="radio"/> F
6. The three classes of ACMs are <u>surfacing material</u> , <u>flooring materials</u> and <u>thermal system insulation</u> .	T	<input checked="" type="radio"/> F
7. Asbestos is used in building materials due to its excellent insulating properties, chemical resistance, tensile strength and easy manufacturing production properties.	<input checked="" type="radio"/> T	F
8. Products containing asbestos can still be commercially purchased in the USA.	<input checked="" type="radio"/> T	F
9. The condition and friability of an ACM will determine its potential exposure hazard rating.	<input checked="" type="radio"/> T	F
10. An Asbestos Management Plan is only concerned with exposed asbestos pipe insulation and surfacing material in public areas.	T	<input checked="" type="radio"/> F
11. Anyone can legally remove asbestos in quantities less than 3 square or linear feet.	T	<input checked="" type="radio"/> F
12. Amosite and crocidolite are the most commonly found asbestos types, while chrysotile is rare.	T	<input checked="" type="radio"/> F
13. Building owners/managers are required to post labels and warning signs only in the main boiler room of a building.	T	<input checked="" type="radio"/> F
14. The health effects of asbestos are acute and can be reversed over time.	T	<input checked="" type="radio"/> F
15. In general, buildings constructed from 1945 to 1972 will contain the most ACMs.	<input checked="" type="radio"/> T	F

Periodic Surveillance

School Name & Address

Date:

Performed by _____ (signature of person performing surveillance)

Location	Description	Amount (LF/SF)	Change in Condition	Comments
Boiler Room	Tank Insulation	200sf	Yes	Minor contact damage
	Fittings	15 ea	No	
Room B-1	9x9 mint green floor tiles	600sf	Yes	Cracks by univent
Library	9x9 brown floor tiles	1200 sf	No	
1 st floor hallway	12x12 white floor tiles	3200sf	No	Cracks by gym door still present



Paul Matuszko
Environmental Consulting

**Two-Hour
ASBESTOS AWARENESS TRAINING
Review Quiz**

Name: JAMES BETTERS (print) Date: 4/25/14

Department: Main Title/Job: Main

Circle True (T) or False (F) which best answers each question:

- | | True | False |
|---|--------------|--------------|
| 1. Asbestos-containing material (ACM) is defined as a material containing any percentage of asbestos. | T | F |
| 2. Agencies that regulate asbestos include; the Federal EPA and OSHA and the Massachusetts DEP and DLS. | T | F |
| 3. Asbestos exposure and smoking increases a person's risk for developing lung cancer. | T | F |
| 4. As long as you don't smoke, your body's defense mechanisms will always protect you from asbestos exposure. | T | F |
| 5. A paper dust mask is sufficient to protect you from asbestos fibers inhalation. | T | F |
| 6. The three classes of ACMs are <u>surfacing material</u> , <u>flooring materials</u> and <u>thermal system insulation</u> . | T | F |
| 7. Asbestos is used in building materials due to its excellent insulating properties, chemical resistance, tensile strength and easy manufacturing production properties. | T | F |
| 8. Products containing asbestos can still be commercially purchased in the USA. | T | F |
| 9. The condition and friability of an ACM will determine its potential exposure hazard rating. | T | F |
| 10. An Asbestos Management Plan is only concerned with exposed asbestos pipe insulation and surfacing material in public areas. | T | F |
| 11. Anyone can legally remove asbestos in quantities less than 3 square or linear feet. | T | F |
| 12. Amosite and crocidolite are the most commonly found asbestos types, while chrysotile is rare. | T | F |
| 13. Building owners/managers are required to post labels and warning signs only in the main boiler room of a building. | T | F |
| 14. The health effects of asbestos are acute and can be reversed over time. | T | F |
| 15. In general, buildings constructed from 1945 to 1972 will contain the most ACMs. | T | F |



Paul Matuszko
Environmental Consulting

**Two-Hour
ASBESTOS AWARENESS TRAINING
Review Quiz**

Name: MATTHEW T. CAREW Date: 4/25/14
(print)

Department: MAINTENANCE / GROUNDS Title/Job: HEAD GROUNDS KEEPER

Circle True (T) or False (F) which best answers each question:

True False

1. Asbestos-containing material (ACM) is defined as a material containing any percentage of asbestos. T F
2. Agencies that regulate asbestos include; the Federal EPA and OSHA and the Massachusetts DEP and DLS. T F
3. Asbestos exposure and smoking increases a person's risk for developing lung cancer. T F
4. As long as you don't smoke, your body's defense mechanisms will always protect you from asbestos exposure. T F
5. A paper dust mask is sufficient to protect you from asbestos fibers inhalation. T F
6. The three classes of ACMs are surfacing material, flooring materials and thermal system insulation. T F
7. Asbestos is used in building materials due to its excellent insulating properties, chemical resistance, tensile strength and easy manufacturing production properties. T F
8. Products containing asbestos can still be commercially purchased in the USA. T F
9. The condition and friability of an ACM will determine its potential exposure hazard rating. T F
10. An Asbestos Management Plan is only concerned with exposed asbestos pipe insulation and surfacing material in public areas. T F
11. Anyone can legally remove asbestos in quantities less than 3 square or linear feet. T F
12. Amosite and crocidolite are the most commonly found asbestos types, while chrysotile is rare. T F
13. Building owners/managers are required to post labels and warning signs only in the main boiler room of a building. T F
14. The health effects of asbestos are acute and can be reversed over time. T F
15. In general, buildings constructed from 1945 to 1972 will contain the most ACMs. T F



Paul Matuszko
Environmental Consulting

**Two-Hour
ASBESTOS AWARENESS TRAINING
Review Quiz**

Name: Kevin Leadbetter (print) Date: 4-25-14

Department: Maintenance Title/Job: _____

Circle True (T) or False (F) which best answers each question:

- | | True | False |
|---|------------------------------------|------------------------------------|
| 1. Asbestos-containing material (ACM) is defined as a material containing any percentage of asbestos. | T | <input checked="" type="radio"/> F |
| 2. Agencies that regulate asbestos include; the Federal EPA and OSHA and the Massachusetts DEP and DLS. | <input checked="" type="radio"/> T | F |
| 3. Asbestos exposure and smoking increases a person's risk for developing lung cancer. | <input checked="" type="radio"/> T | F |
| 4. As long as you don't smoke, your body's defense mechanisms will always protect you from asbestos exposure. | T | <input checked="" type="radio"/> F |
| 5. A paper dust mask is sufficient to protect you from asbestos fibers inhalation. | T | <input checked="" type="radio"/> F |
| 6. The three classes of ACMs are <u>surfacing material</u> , <u>flooring materials</u> and <u>thermal system insulation</u> . | T | <input checked="" type="radio"/> F |
| 7. Asbestos is used in building materials due to its excellent insulating properties, chemical resistance, tensile strength and easy manufacturing production properties. | <input checked="" type="radio"/> T | F |
| 8. Products containing asbestos can still be commercially purchased in the USA. | <input checked="" type="radio"/> T | F |
| 9. The condition and friability of an ACM will determine its potential exposure hazard rating. | <input checked="" type="radio"/> T | F |
| 10. An Asbestos Management Plan is only concerned with exposed asbestos pipe insulation and surfacing material in public areas. | T | <input checked="" type="radio"/> F |
| 11. Anyone can legally remove asbestos in quantities less than 3 square or linear feet. | T | <input checked="" type="radio"/> F |
| 12. Amosite and crocidolite are the most commonly found asbestos types, while chrysotile is rare. | T | <input checked="" type="radio"/> F |
| 13. Building owners/managers are required to post labels and warning signs only in the main boiler room of a building. | T | <input checked="" type="radio"/> F |
| 14. The health effects of asbestos are acute and can be reversed over time. | T | <input checked="" type="radio"/> F |
| 15. In general, buildings constructed from 1945 to 1972 will contain the most ACMs. | <input checked="" type="radio"/> T | F |