

June 19, 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

Indian Head Elementary School

720 Indian Head Street Hanson, Massachusetts

Dear Mr. Sandland:

Please find enclosed the three-year re inspection report for the Indian Head 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)



AHERA 3-YEAR REINSPECTION REPORT INDIAN HEAD 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

June 19, 2015



AHERA 3-YEAR REINSPECTION REPORT INDIAN HEAD SCHOOL 720 INDIAN HEAD STREET HANSON, 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

June 19, 2015



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1.0 <u>INTRODUCTION</u>

American Environmental Consultants, Inc (AEC) was retained by the Whitman Hanson Regional School District (WHRSD) to perform a three-year reinspection at the Indian Head School located at 720 Indian Head Street in Hanson, Massachusetts.

The inspection was performed on May 20, 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 <u>friable</u> 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 <u>DISCUSSION</u>

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 <u>Yearly Building Occupant Notification</u>

"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 reinspection 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 Appendix B attached 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". Labels were observed in routine maintenance areas including at the crawl space access panels.

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

The only suspect accessible surfacing material identified is the ceiling and wall plaster located in areas throughout the school building. The material was sampled and determined to be non-ACM. Sampling information can be found in Appendix C and F.

Thermal System Insulation

The thermal system insulation observed in the crawl spaces was non-ACM. It is likely TSI exists in enclosed spaces. Estimates and information can be found in Appendix B and C.

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 Indian Head 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 <u>CONCLUSIONS</u>

The AHERA three year reinspection at the Indian Head School was performed on May 20, 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

SHEET NO .__ BONFATTI - McALI .E, J.V. __ DATI -100 Access Road, Norwood, MA 02062 (617) 762-4028 FAX (617) 769-1187 CALCULATED BY. CHECKED BY-DATE 421902 SCALE COMPUTER 109 104 105 106 107 108 109

BONFATTI - MCALI	.E, J.V.	SHEET NO.	,of
100 Access Road, Norwood, (617) 762-4028 FAX (617)	MA U2062) 769-1187		OA
		CHECKED BY	DAT
		SCALE	DAT

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)

Indian Head School 3-YEAR REINSPECTION ASSESSMENT TABLE

May 20, 201	5		REINSPECTION MENT TABLE	N	Project N	No. 421902
Location: Building- Floor/Roo m or Area	Type of Material	Quantity	Homogenous Area Number	Physical/ Hazard Assessment	Condition	Friable/Non -Friable (F/NF)
		SECO	OND FLOOR			
Stairwells	Vinyl dot floor covering	400 SF	HA-22	5/1	Good	NF
Stairwells	Mastic	400 SF	HA-23	5/1	Good	NF
Hallway/ Classrooms	12x12 white with gray dot VFT**	8,400 SF	HA-09	5/1	Good	NF
Hallway/ Classrooms	Yellow accent VFT**	150	HA-13	5/1	Good	NF
Hallway/ Classrooms	Blue accent VFT**	150	HA-10	5/1	Good	NF
Hallway/ Classrooms	Aqua accent VFT**	150	HA-12	5/1	Good	NF
Hallway/ Classrooms	Red accent VFT**	150	HA-11	5/1	Good	NF
Hallway/ Classrooms	VFT Mastic	9,000 SF	HA-14	5/1	Good	NF
Bathroom/ Classroom entry	Ceramic tile wall grout	1,500 SF	HA-15	5/2	Good	NF
Bathroom	Ceramic tile floor grout	600 SF	HA-16	5/1	Good	NF
Bathroom/ Classroom entry	Ceramic tile wall adhesive	1,500 SF	HA-34	5/1	Good	NF
Bathroom	Ceramic tile floor adhesive	600 SF	HA-35	5/1	Good	NF
Classrooms	Bulletin board/ Chalkboard/ white board adhesive	22 EA	HA-25	5/1	Good	NF
Bathroom	Blue 4" cove base	100 LF	HA-36	5/1	Good	NF

Indian Head School 3-YEAR REINSPECTION ASSESSMENT TABLE

3-YEAR REINSPECTION ASSESSMENT TABLE May 20, 2015 Project No. 421902									
Location: Building- Floor/Roo m or Area	Type of Material	Quantity	Homogenous Area Number	Physical/ Hazard Assessment	Condition	Friable/Non -Friable (F/NF)			
Bathroom	Cove base mastic	100 LF	HA-37	5/1	Good	NF			
Classrooms	Sink with black undercoating	7 EA	HA-26	5/1	Good	NF			
2 nd floor	Interior wood doors	22 EA	HA-22	5/1	Good	F			
	FIRST FLOOR								
Stairwells	Vinyl dot floor covering	800 SF	HA-23	5/1	Good	NF			
Stairwells	Mastic	800 SF	HA-24	5/1	Good	NF			
Hallway/ Classrooms /Gym entry and office	12x12 white with gray dot VFT**	34,000 SF	НА-9	5/1	Good	NF			
Hallway/ Classrooms	Yellow accent VFT**	150 SF	HA-13	5/1	Good	NF			
Hallway/ Classrooms	Blue accent VFT**	150 SF	HA-10	5/1	Good	NF			
Hallway/ Classrooms	Aqua accent VFT**	150 SF	HA-12	5/1	Good	NF			
Hallway/ Classrooms	Red accent VFT**	150 SF	HA-11	5/1	Good	NF			
Hallway/ Classrooms	VFT Mastic	35,000 SF	HA-14	5/1	Good	NF			
Bathroom/ Classroom entry	Ceramic tile wall grout	4,000 SF	HA-15	5/1	Good	NF			
Bathroom	Ceramic tile floor grout	1,200 SF	HA-16	5/1	Good	NF			
Bathroom/ Classroom entry	Ceramic tile wall adhesive	4,000 SF	HA-34	5/1	Good	NF			

Indian Head School 3-YEAR REINSPECTION ASSESSMENT TABLE

May 20, 2015 Project No. 421902

Location: Building-	Trans a CNT 4	0	Homogenous	Physical/	C 1'4'	Friable/Non
Floor/Roo m or Area	Type of Material	Quantity	Area Number	Hazard Assessment	Condition	-Friable (F/NF)
Bathroom	Ceramic tile floor adhesive	1,200 SF	HA-35	5/1	Good	NF
Classrooms	Bulletin board/ Chalkboard/ white board adhesive	90 EA	HA-25	5/1	Good	NF
Classrooms / Health suite	Sink with black undercoating	85 EA	HA-26	5/1	Good	NF
Kitchen/G ym Foyer Bathrooms	Gray Terrazzo grout	1,500 SF	HA-18	5/1	Good	NF
Kitchen/G ym Foyer Bathrooms	Gray Terrazzo adhesive	1,500 SF	HA-19	5/1	Good	NF
Auditoriu m/ Gym Seating area/Storag e	Blue dot vinyl flooring	800 SF	HA-38	5/1	Good	NF
Auditoriu m/ Gym Seating area/Storag e	Mastic	800 SF	HA-39	5/1	Good	NF
Health suite	Green linoleum	700 SF	HA-40	5/1	Good	NF
Health suite	Mastic	700 SF	HA-41	5/1	Good	NF
Main Lobby	12"x12" ceramic tile grout	900 SF	HA-32	5/1	Good	NF
Main Lobby	12"x12" ceramic tile adhesive	900 SF	HA-33	5/1	Good	NF
Center connector Hall	Pipe insulation*	2 LF	HA-29	5/1	Good	F
1 st floor	Interior wood doors	100 EA	HA-22	5/1	Good	F

Indian Head School 3-YEAR REINSPECTION ASSESSMENT TABLE May 20, 2015 **Project No. 421902 Location**: Physical/ Homogenous Friable/Non **Building-Type of Material** Quantity Area **Condition** -Friable Hazard Floor/Roo Number (**F/NF**) Assessment m or Area LOWER LEVEL/CRAWL SPACE Lower 5/1 F Red smoke stop 5 SF HA-31 Good Level Boiler Breaching 400 SF HA-27 5/1 Good F room Boiler Tank Insulation 150 SF HA-28 5/1 F Good room Crawl 5/1 F Contaminated soil 50,000 SF HA-42 Good

Spaces

6- Month Periodic Re-inspection:	
Date Re-inspected:	
Re-inspection done by:	<u> </u>
Changes in Condition:	

^{*} Pipe insulation observed was all fiberglass. One 2 foot section in the center hallway was wrapped in a metal jacket and could not be identified as fiberglass and is assumed to be asbestos. Additional pipe insulation should be assumed to exist in enclosed areas.

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

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).

Indian Head School 3-YEAR REINSPECTION HOMOGENOUS MATERIAL TABLE							
May 20, 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'/2'X2' Perforated ceiling tile	Y	N	5/20/15	2	SanAir	13241
HA-2	2'x4' ceiling tile	Y	N	5/20/15	2	SanAir	13241
HA-3	2'x4' Sheetrock ceiling tile	Y	N	5/20/15	2	SanAir	13241
HA-4	Plaster walls/ceilings	Y	N	5/20/15	10	SanAir	13241
HA-5	Sheetrock	Y	N	5/20/15	3	SanAir	13241
HA-6	Joint Compound	Y	N	5/20/15	3	SanAir	13241
HA-7	Gray cove base	Y	N	5/20/15	2	SanAir	13241
HA-8	Mastic	Y	N	5/20/15	2	SanAir	13241
HA-9	12x12 white with gray dot VFT**	N	N/A	N/A	N/A	N/A	N
HA-10	Blue accent VFT	N	N/A	N/A	N/A	N/A	N/A
HA-11	Red accent VFT	N	N/A	N/A	N/A	N/A	N/A

Indian Head School 3-YEAR REINSPECTION HOMOGENOUS MATERIAL TABLE

May 20, 2015

Project No. 421902

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Homogenous Material Number	Material	Sampled (Yes/No)	ACM (yes/no)	Date Sampled	How Many Samples	Lab Doing Analysis	Lab Project Number
HA-12	Aqua accent VFT	N	N/A	N/A	N/A	N/A	N/A
HA-13	Yellow accent VFT	N	N/A	N/A	N/A	N/A	N/A
HA-14	Mastic	N	N/A	N/A	N/A	N/A	N/A
HA-15	Ceramic tile wall grout (bathrooms)	N	N/A	N/A	N/A	N/A	N/A
HA-16	Ceramic tile floor grout (bathrooms)	N	N/A	N/A	N/A	N/A	N/A
HA-17	Interior window glazing	Y	N	5/20/15	2	SanAir	13241
HA-18	Gray terrazzo floor grout	N	N/A	N/A	N/A	N/A	N/A
HA-19	Gray terrazzo floor adhesive	N	N/A	N/A	N/A	N/A	N/A
HA-20	Terrazzo floor grout	N	N/A	N/A	N/A	N/A	N/A
HA-21	Terrazzo floor adhesive	N	N/A	N/A	N/A	N/A	N/A
HA-22	Interior wood doors	N	N/A	N/A	N/A	N/A	N/A
HA-23	Vinyl dot flooring	N	N/A	N/A	N/A	N/A	N/A
HA-24	Mastic	N	N/A	N/A	N/A	N/A	N/A
HA-25	White board/ chalk board / bulletin board adhesive	N	N/A	N/A	N/A	N/A	N/A

Indian Head School 3-YEAR REINSPECTION HOMOGENOUS MATERIAL TABLE

May 20, 2015

Project No. 421902

Way 20, 2015						110,000	110. 721/02
Homogenous Material Number	Material	Sampled (Yes/No)	ACM (yes/no)	Date Sampled	How Many Samples	Lab Doing Analysis	Lab Project Number
HA-26	Black sink undercoating	N	N/A	N/A	N/A	N/A	N/A
HA-27	Boiler Breaching	N	N/A	N/A	N/A	N/A	N/A
HA-28	Tank Insulation	N	N/A	N/A	N/A	N/A	N/A
HA-29	Pipe Insulation	N	N/A	N/A	N/A	N/A	N/A
HA-30	Tectum Board	Y	N	5/20/15	2	SanAir	13241
HA-31	Red smoke stop	N	N/A	N/A	N/A	N/A	N/A
HA-32	12"x12" ceramic tile (main lobby) grout	N	N/A	N/A	N/A	N/A	N/A
НА-33	12"x12" ceramic tile (main lobby) adhesive	N	N/A	N/A	N/A	N/A	N/A
HA-34	Ceramic tile wall adhesive (bathrooms/ class entry)	N	N/A	N/A	N/A	N/A	N/A
HA-35	Ceramic tile floor adhesive (Bathrooms)	N	N/A	N/A	N/A	N/A	N/A
HA-36	Blue Cove Base	N	N/A	N/A	N/A	N/A	N/A
HA-37	Mastic	N	N/A	N/A	N/A	N/A	N/A
HA-38	Blue dot vinyl flooring	N	N/A	N/A	N/A	N/A	N/A
HA-39	Mastic	N	N/A	N/A	N/A	N/A	N/A
HA-40	Green linoleum	N	N/A	N/A	N/A	N/A	N/A

Indian Head School 3-YEAR REINSPECTION HOMOGENOUS MATERIAL TABLE

May 20, 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-41	Mastic	N	N/A	N/A	N/A	N/A	N/A
HA-42	Contaminated soil	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 Educat	ion Agency:	Phone:				
Address:		AND CONTROL OF THE CO				
Designated P	erson:	Phone:				
Address:						
Date Checklis	st Completed by Designated	Person:				
	erson's Signature:					
Yes No N/A N/A - Not Applicable	School:					
	General In	formation				
	1. Has an Asbestos Management Plan be	en developed for your school?				
		(40 CFR § 763.93)				
	2. Does the Local Education Agency (LE management plan in both the LEA's adn	A) have a complete and up-to-date copy of the school's ninistrative office and the school's administrative office?				
	2.14	(40 CFR § 763.93(g)(2)-(3))				
	3. Was the management plan developed by an accredited management planner?	Did you know? Your LEA may 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)).				
		(40 CFR § 763.93(e))				

^{*}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 N/A - Not Applicable	School:
	 4. For each consultant who contributed to the management plan, does the plan include the following: 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?
	(40 CFR § 763.93 (e)(12)(i)-(ii))
	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.
	*Tip: See suggested Model AMP Form 1 - Contact Information
	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: • friable ACBM (asbestos-containing building material)? • non-friable ACBM? • friable and non-friable suspected ACBM assumed to be ACM (asbestos-containing material)? (40 CFR §§ 763.93(a)(1)-(2) and 763.93(e)(1))
	*Tip: See Model AMP Form 2 - School Building List
	 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: 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?
	(40 CFR § 763.99(a)(7))
	*Tip: See Model AMP Form 2 - School Building List
	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?
	(40 CFR § 763.99)
	Note: The exclusion under 40 CFR § 763.99(a)(7) is also covered under Checklist question number 6.



Yes No N/A N/A - Not Applicable	School:	
	 8. Does the management plan include the following information about the LEA Designated Person (DP): 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? 	
	(40 CFR § 763.93(e)(4) and (i	(i))
A.F.	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.	d
·	*Tip: See Model AMP Form 1 - Contact Information and Form 3 - Designated Person Assurances	
	 9. Does the management plan include the following recommendations: 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? (40 CFR § 763.93(e)(9) 	Ł.
	*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	<i>'))</i>
	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?	
	(40 CFR § 763.93(e)(11)))
	*Tip: See suggested Model AMP Form 4 - Evaluation of Resources	
	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: • person's name and job title? • date training was completed? • location of training? • number of hours completed?	
	(40 CFR §§ 763.93(h) and 763.94(c)))
	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.	е
	*Tip: See Model AMP Form 5 - Training Record for Maintenance and Custodial Staff	



Yes No N/A	School:
N/A - Not Applicable	School.
	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: • person's name and job title? • date training was completed? • location of training? • number of hours completed? (40 CFR §§ 763.93(h) and 763.94(c))
	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.
	*Tip: See Model AMP Form 5 - Training Record for Maintenance and Custodial Staff
	Inspections and Reinspections
	 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: 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)? (40 CFR § 763.93(e)(2)(i)-(v)) *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
	14. Does the management plan include for each inspection and reinspection conducted under 40 CFR § 763.85 the following information: • 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? (40 CFR § 763.93(e)(3)(i)) 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. *Tip: See Model AMP Form 6 - Inspection Cover Sheet



Yes No N/A N/A - Not Applicable	School:
	 15. Does the management plan include for each inspection and reinspection conducted under 40 CFR § 763.85 the following sampling information: 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?
	(40 CFR § 763.93(e)(3)(ii)-(iii))
	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.
	*Tip: See Model AMP Form 6 - Inspection Cover Sheet, Form 8 - Homogeneous Area/Bulk Sample Summary, and Form 9 - Homogeneous Area/Bulk Sample Diagram
	 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: 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?
	(40 CFR §§ 763.87(d) and 763.93(e)(3)(iv))
	Note: For details on how to submit bulk samples for analysis, see 40 CFR § 763.87.
	 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: 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))
	(40 CFR §§ 763.88(a)(2) and 763.93(c)(3)(v)
•	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.
	*Tip: See Model AMP Form 6 - Inspection Cover Sheet and Form 7 - Room/Functional Space Assessment



Yes No N/A N/A - Not Applicable	School:
	 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: 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? (40 CFR § 763.85(a)(4)(vi)(A)-(E) and 763.88(a)(2))
	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)
	*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
	 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: 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?
	(40 CFR §§ 763.85(b)(3)(vii)(A) - (C) and 763.88(a)(2))
	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).
	*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



Yes No N/A N/A - Not Applicable	School:
	Response Actions
	 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: name, signature, state of accreditation, and, if applicable, the accreditation number for each accredited management planner making the recommendations?
	(40 CFR §§ 763.88(d) and 763.93(e)(5))
	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.
	*Tip: See Model AMP Form 11 - Recommended Response Actions
	21. Does the management plan include a detailed description of preventive measures and response actions to be taken, including the following: 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)).
	 Methods to be used for any friable ACBM? 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?
	(40 CFR § 763.93(e)(6))
	Note: For further details on how to conduct response actions, see 40 CFR § 763.90
	*Tip: See Model AMP Form 11 - Recommended Response Actions
	 22. Does the management plan include one of the following statements for the person or persons who inspected for ACBM and who will design or carry out response actions, except for operations and maintenance, with respect to the ACBM: 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?
	(40 CFR § 763.93(e)(7))
	*Tip: See note on Model AMP Form 3 - Designated Persons Assurances



Yes No N/A N/A - Not Applicable	School:
	 23. Does the management plan include a detailed written description of each preventive measure and response action taken for friable and nonfriable ACBM and friable and nonfriable suspected ACBM assumed to be ACM, including the following: 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 ACBM is removed, the name and location of storage or disposal site of the ACM? Note: Although not required, EPA suggests including in the AMP a copy of the accreditation.
	*Tip: See Model AMP Form 12 - Implementation of Response Actions
	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): 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)? (40 CFR § 763.94(b)(2))
	*Tip: See Model AMP Form 12 - Implementation of Response Actions
	25. Does the management plan include a detailed description in the form of a blueprint, diagram, or written description, of any ACBM or suspected ACBM 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? (40 CFR § 763.93(e)(8))
	26. For each homogeneous area where all ACBM 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? Did you know? Significantly damaged friable surfacing ACM or significantly damaged friable surfacing and significantly damaged friable surfacing and significantly damaged



Yes No N/A N/A - Not Applicable	School:
	Operations and Maintenance
	27. Does the management plan include a record of each cleaning conducted under 40 CFR § 763.91(c), including the following: Name of each person performing the cleaning? Date of the cleaning? Locations cleaned? Methods used to perform the cleaning?
	(40 CFR §§ 763.93(h) and 763.94(e))
	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).
	*Tip: See Model AMP Form 16 - Cleaning Record
	 28. Does the management plan include a record of each O&M activity and major asbestos activity, with the following information: 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?
	(40 CFR §§ 763.93(h) and 763.94(f) and(g))
	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.
	*Tip: See Model AMP Form 15 - Operations and Maintenance Activities
	 29. Does the management plan include a record of each fiber release episode, whether major or minor, with the following information: 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?
	(40 CFR §§ 763.93(h) and 763.94(h))
	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)).
	*Tip: See Model AMP Form 17 - Major/Minor Fiber Release Episode Log



Yes No N/A N/A - Not Applicable	School:	
	Periodic Surveillance	
	 30. Does the management plan include a record of each periodic surveillance performed under 40 CFR § 763.92(b), with the following information: Name of person performing the surveillance? Date of the surveillance? Any changes in the condition of the material? 	
	(40 CFR §§ 763.92(b)(2)(ii)-(iii), 763.93(h) and 763.94(d))	
	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)).	
	*Tip: See Model AMP Form 18 - Periodic Surveillance Plan/Report	
	Notification	
	 31. Does the management plan include the following notification information: 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.) 	
	*Tip: See Model AMP Form 19 - Plan to Inform (40 CFR §§ 763.93(e)(10) and 763.93(g)(4))	



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 (cummingtonitegrunerite); 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: <u>Asbestos Management</u>

Planner Training

State of

Accreditation: <u>Massachusetts</u>

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

Analysis Report

prepared for

AEC Laboratories, LLC

Report Date: 6/1/2015

Project Name: Indian Head School

Project #: 13241

SanAir ID#: 15014554



NVLAP LAB CODE 200870-0









AEC Laboratories, LLC 814 Broad Street Weymouth, MA 02189

June 1, 2015

SanAir ID # 15014554

Project Name: Indian Head School

Project Number: 13241

Dear G. Hatch,

We at SanAir would like to thank you for the work you recently submitted. The 56 sample(s) were received on Friday, May 22, 2015 via FedEx. The final report(s) is enclosed for the following sample (s): 052015-01A, 052015-01B, 052015-02A, 052015-02B, 052015-03A, 052015-03B, 052015-04A, 052015-04B, 052015-05A, 052015-05B, 052015-06A, 052015-06B, 052015-07A, 052015-07B, 052015-08A, 052015-08B, 052015-09B, 052015-10A, 052015-10B, 052015-11A, 052015-11B, 052015-12A, 052015-12B, 052015-13A, 052015-13B, 052015-14A, 052015-14B, 052015-14C, 052015-15A, 052015-15B, 052015-15C, 052015-16A, 052015-16B, 052015-17A, 052015-17B, 052015-17C, 052015-17D, 052015-17E, 052015-17F, 052015-17G, 052015-17H, 052015-17I, 052015-17J, 052015-18A, 052015-18B, 052015-18C, 052015-18D, 052015-18E, 052015-18F, 052015-18G, 052015-18H, 052015-18I, 052015-19A, 052015-19B. The following sample(s) were unusable and were not tested: 052015-09A.

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

landra Sobiino

SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis Pages
- Disclaimers and Additional Information

sample conditions:

55 sample(s) in Good condition 1 sample(s) in Sample Not Received condition

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139 804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070

SanAir ID Number

15014554

FINAL REPORT

Name: AEC Laboratories, LLC Address:

814 Broad Street Weymouth, MA 02189 Project Number: 13241

P.O. Number: 720 Indian Head St, Hanson, MA

Project Name: Indian Head School

Collected Date: 5/20/2015

Received Date: 5/22/2015 10:20:00 AM **Report Date:** 6/1/2015 5:47:15 PM Analyst: Szabo, Philip M.

Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	<u>Compo</u>	<u>nents</u>	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-01A / 15014554-001	White	85% Cellulose	15% Other	None Detected
Gymnasium Wall, Tectum Panel	Fibrous			
	Homogeneous			

	Stereoscopic	Compo	<u>nents</u>	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-01B / 15014554-002 Gymnasium Wall, Tectum Panel	White Fibrous Homogeneous	85% Cellulose	15% Other	None Detected

	Stereoscopic	Compo	nents	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-02A / 15014554-003 Cafeteria, 6" Cove Base	Grey Non-Fibrous Homogeneous		100% Other	None Detected

	Stereoscopic	Com	<u>ponents</u>	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-02B / 15014554-004	Grey		100% Other	None Detected
Center Hall, Cove Base	Non-Fibrous			
	Homogeneous			

	Stereoscopic	Com	<u>ponents</u>	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-03A / 15014554-005	Yellow		100% Other	None Detected
Cafeteria, Mastic	Non-Fibrous			
	Homogeneous			

	Stereoscopic	Compo	<u>nents</u>	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-03B / 15014554-006 Center Hall, Mastic	Yellow Non-Fibrous Homogeneous		100% Other	None Detected

	Stereoscopic	<u>Com</u>	<u>ponents</u>	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-04A / 15014554-007	White		100% Other	None Detected
Cafeteria, Top Layer 12x12 VFT	Non-Fibrous			
	Homogeneous			

Certification

Signature: Philip Szabo

Date: 6/1/2015 Page 1 of 9

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139 804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070

SanAir ID Number

15014554

FINAL REPORT

Name: AEC Laboratories, LLC Address:

814 Broad Street Weymouth, MA 02189 Project Number: 13241

P.O. Number: 720 Indian Head St, Hanson, MA

Project Name: Indian Head School

Collected Date: 5/20/2015

Received Date: 5/22/2015 10:20:00 AM **Report Date:** 6/1/2015 5:47:15 PM Analyst: Szabo, Philip M.

Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	<u>Components</u>		Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-04B / 15014554-008	White		100% Other	None Detected
Cafeteria, Top Layer 12x12 VFT	Non-Fibrous			
	Homogeneous			

	Stereoscopic	Com	ponents	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-05A / 15014554-009	Yellow		100% Other	None Detected
Cafeteria Mastic	Non-Fibrous			
	Homogeneous			

	Stereoscopic	<u>Con</u>	nponents	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-05B / 15014554-010 Cafeteria Mastic	Yellow Non-Fibrous Homogeneous		100% Other	None Detected

	Stereoscopic	Com	<u>ponents</u>	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-06A / 15014554-011 Cafeteria Bottom Layer VFT	Green Non-Fibrous Homogeneous		100% Other	None Detected

	Stereoscopic	Com	<u>ponents</u>	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-06B / 15014554-012 Cafeteria Bottom Layer VFT	Green Non-Fibrous Homogeneous		100% Other	None Detected

	Stereoscopic	<u>Components</u>		Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-07A / 15014554-013 Cafeteria Mastic	Black Non-Fibrous Homogeneous		100% Other	None Detected

	Stereoscopic	Compo	<u>nents</u>	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-07B / 15014554-014 Cafeteria Mastic	Black Non-Fibrous Homogeneous		100% Other	None Detected

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Signature: Philip Szabo

Date: 6/1/2015 Page 2 of 9

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Weymouth, MA 02189

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Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	<u>Components</u>		Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-08A / 15014554-015	White		100% Other	None Detected
Center Hall, Top Lay VFT 12x12	Non-Fibrous			
	Homogeneous			

	Stereoscopic	<u>Components</u>		Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-08B / 15014554-016	White		100% Other	None Detected
Center Hall, Top Lay VFT 12x12	Non-Fibrous			
	Homogeneous			

	Stereoscopic	<u>Components</u>		Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-09A / 15014554-017				Not Submitted
Center Hall, Mastic				

	Stereoscopic	Compo	<u>nents</u>	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-09B / 15014554-018 Center Hall, Mastic	Yellow Non-Fibrous Homogeneous		100% Other	None Detected

	Stereoscopic	<u>Components</u>		Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-10A / 15014554-019 Center Hall, Bottom Layer Vinyl	Tan Non-Fibrous Homogeneous		100% Other	None Detected

	Stereoscopic	Com	ponents	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-10B / 15014554-020 Center Hall, Bottom Layer Vinyl	Tan Non-Fibrous Homogeneous		100% Other	None Detected

	Stereoscopic	<u>Components</u>		Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-11A / 15014554-021	Yellow		100% Other	None Detected
Center Hall, Mastic	Non-Fibrous			
	Homogeneous			

Certification

Signature: Philip Szabo

Page 3 of 9 Date: 6/1/2015

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Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	<u>Components</u>		Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-11B / 15014554-022	Yellow		100% Other	None Detected
Center Hall, Mastic	Non-Fibrous			
	Homogeneous			

	Stereoscopic	<u>Components</u>		Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-12A / 15014554-023	White	45% Cellulose	25% Other	None Detected
Center Hall, 2x4 Perforated	Fibrous	20% Glass		
Ceiling Tile	Homogeneous	10% Min. Wool		

	Stereoscopic	Compon	<u>ents</u>	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-12B / 15014554-024 Main Hall, 2x4 Perforated Ceiling Tile	White Fibrous Homogeneous	45% Cellulose 20% Glass 10% Min. Wool	25% Other	None Detected

	Stereoscopic	Compor	<u>ients</u>	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-13A / 15014554-025 Center Hall, 2x4 Acoustic Ceiling Tile	White Fibrous Homogeneous	45% Cellulose 20% Glass 10% Min. Wool	25% Other	None Detected

	Stereoscopic	Compo	<u>nents</u>	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-13B / 15014554-026 Back Hall, 2x4 Acoustic Ceiling Tile	White Fibrous Homogeneous	45% Cellulose 20% Glass 10% Min. Wool	25% Other	None Detected

	Stereoscopic	Compone	ents ents	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-14A / 15014554-027 Room 107, Sheetrock	Off-White Non-Fibrous Homogeneous	3% Cellulose 2% Glass	95% Other	None Detected

	Stereoscopic	Compo	onents .	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-14B / 15014554-028 Service Entry Area Sheetrock	Off-White Non-Fibrous	3% Cellulose 2% Glass	95% Other	None Detected
	Homogeneous			

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Signature: Philip Szabo

andra Sobiino Page 4 of 9 Date: 6/1/2015



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Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Compone	ents ents	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-14C / 15014554-029 Health Suite Sheetrock	Off-White Non-Fibrous Homogeneous	3% Cellulose 2% Glass	95% Other	None Detected

	Stereoscopic	Com	<u>ponents</u>	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-15A / 15014554-030	White		100% Other	None Detected
Same As 14A, Joint Compound	Non-Fibrous			
	Homogeneous			

	Stereoscopic	Com	<u>ponents</u>	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-15B / 15014554-031	White		100% Other	None Detected
Same As 14B, Joint Compound	Non-Fibrous			
	Homogeneous			

	Stereoscopic	Com	<u>ponents</u>	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-15C / 15014554-032 Same as 14C, Joint Compound	White Non-Fibrous Homogeneous		100% Other	None Detected

	Stereoscopic	Compo	<u>onents</u>	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-16A / 15014554-033 Kitchen, 2x4 Sheetrock Ceiling Tile	Off-White Non-Fibrous Homogeneous	3% Cellulose 2% Glass	95% Other	None Detected

	Stereoscopic	Compor	<u>nents</u>	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-16B / 15014554-034 Kitchen, 2x4 Sheetrock Ceiling Tile	Off-White Non-Fibrous Homogeneous	3% Cellulose 2% Glass	95% Other	None Detected

SanAir ID / Description	Stereoscopic Appearance	<u>Com</u> % Fibrous	<u>ponents</u> % Non-Fibrous	Asbestos Fibers
052015-17A / 15014554-035 Room 219, Plaster Skim Coat, Skim Coat	White Non-Fibrous Homogeneous		100% Other	None Detected
052015-17A / 15014554-035 Room 219, Plaster Skim Coat, Texture	Off-White Non-Fibrous Homogeneous		100% Other	None Detected

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Signature: Philip Szabo

Page 5 of 9 Date: 6/1/2015

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Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Com	<u>ponents</u>	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-17B / 15014554-036 Room 218, Plaster Skim Coat, Skim Coat	White Non-Fibrous Homogeneous		100% Other	None Detected
052015-17B / 15014554-036 Room 218, Plaster Skim Coat, Texture	Off-White Non-Fibrous Homogeneous		100% Other	None Detected

	Stereoscopic	Com	<u>ponents</u>	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-17C / 15014554-037 Room 216, Plaster Skim Coat, Skim Coat	White Non-Fibrous Homogeneous		100% Other	None Detected
052015-17C / 15014554-037 Room 216, Plaster Skim Coat, Texture	Off-White Non-Fibrous Homogeneous		100% Other	None Detected

	Stereoscopic	<u>Com</u>	<u>ponents</u>	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-17D / 15014554-038	White		100% Other	None Detected
Room 215, Plaster Skim Coat	Non-Fibrous			
	Homogeneous			

	Stereoscopic	<u>Com</u>	<u>ponents</u>	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-17E / 15014554-039 Teachers Rm , Plaster Skim Coat	White Non-Fibrous Homogeneous		100% Other	None Detected

	Stereoscopic	Com	ponents	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-17F / 15014554-040 Room 115, Plaster Skim Coat, Skim Coat	White Non-Fibrous Homogeneous		100% Other	None Detected
052015-17F / 15014554-040 Room 115, Plaster Skim Coat, Texture	Off-White Non-Fibrous Homogeneous		100% Other	None Detected

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Signature: Philip Szabo

andra Sobiino Date: 6/1/2015 Page 6 of 9

1551 Oakbridge Drive, Suite B, Powhatan, VA 23139 804.897.1177 Toll Free: 888.895.1177 Fax: 804.897.0070

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Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	<u>Components</u>		Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-17G / 15014554-041	White		100% Other	None Detected
Room 117, Plaster Skim Coat	Non-Fibrous			
	Homogeneous			

	Stereoscopic	Com	<u>ponents</u>	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-17н / 15014554-042	White		100% Other	None Detected
Room 118, Plaster Skim Coat	Non-Fibrous			
	Homogeneous			

	Stereoscopic	Com	ponents	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-17I / 15014554-043	White		100% Other	None Detected
Room 119, Plaster Skim Coat	Non-Fibrous			
	Homogeneous			

	Stereoscopic	Com	<u>ponents</u>	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-17J / 15014554-044 Room 120, Plaster Skim Coat	White Non-Fibrous Homogeneous		100% Other	None Detected

	Stereoscopic	Com	ponents	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-18A / 15014554-045 Room 219, Plaster Base Coat	Grey Non-Fibrous Homogeneous		100% Other	None Detected

	Stereoscopic	Compon	ents ents	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-18B / 15014554-046 Room 218, Plaster Base Coat	Grey Non-Fibrous Homogeneous		100% Other	None Detected

	Stereoscopic	Compo	<u>nents</u>	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-18C / 15014554-047 Room 216, Plaster Base Coat	Grey Non-Fibrous Homogeneous		100% Other	None Detected

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andra Sobiino Date: 6/1/2015 Page 7 of 9

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Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	<u>Components</u>		Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-18D / 15014554-048	Grey		100% Other	None Detected
Room 215, Plaster Base Coat	Non-Fibrous			
	Homogeneous			

	Stereoscopic	Com	<u>ponents</u>	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-18E / 15014554-049	Grey		100% Other	None Detected
Teacher's Rm, Plaster Base Coat	Non-Fibrous			
	Homogeneous			

	Stereoscopic	Com	ponents	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-18F / 15014554-050	Grey		100% Other	None Detected
Room 115, Plaster Base Coat	Non-Fibrous			
	Homogeneous			

	Stereoscopic	Com	<u>ponents</u>	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-18G / 15014554-051 Room 117, Plaster Base Coat	Grey Non-Fibrous Homogeneous		100% Other	None Detected

	Stereoscopic	Com	ponents	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-18H / 15014554-052 Room 118, Plaster Base Coat	Grey Non-Fibrous Homogeneous		100% Other	None Detected

	Stereoscopic	Compor	<u>ients</u>	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-18I / 15014554-053 Room 119, Plaster Base Coat	Grey Non-Fibrous Homogeneous		100% Other	None Detected

	Stereoscopic	<u>Com</u>	<u>ponents</u>	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-18J / 15014554-054	Grey		100% Other	None Detected
Room 120, Plaster Base Coat	Non-Fibrous			
	Homogeneous			

Certification

Signature: Philip Szabo

andra Sobiino Date: 6/1/2015 Page 8 of 9



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Asbestos Bulk PLM EPA 600/R-93/116

	Stereoscopic	Compo	<u>nents</u>	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-19A / 15014554-055	Black		100% Other	None Detected
Stair To 2nd Window, Window	Non-Fibrous			
Glaze	Homogeneous			

	Stereoscopic	<u>Com</u>	<u>ponents</u>	Asbestos
SanAir ID / Description	Appearance	% Fibrous	% Non-Fibrous	Fibers
052015-19B / 15014554-056	Black		100% Other	None Detected
Entry To Theater/Gym, Window	Non-Fibrous			
Glaze	Homogeneous			

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Signature: Philip Szabo

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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 clients 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.

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Weymouth, MA 02189		Date/Time:	Relinquished by:
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AEC Laboratories, LLC	7	Date/Time: 5 1000	Relinquished by:

Bulk COC Version 3.3 (6/06/13) N:\Blank Paperwork\AEC Labs\AEC Labs Bulk COC_Version 3_3

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LAB ID Turnaround Time:☐ RUSH Client Name: Analysis: PLM Positive Stop Qualitative Proj. Address: 720 Tokyan Client Address: Relinquished by: Received by: Relinquished by: Received by: Results to (PM): Sampled By: Date: FIELD ID かるらいらい ンタフ 24 Hour HOAX 48 Hour LOCATION Point Count NOB Prep Date/Time: Date/Time: Date/Time: 5 Date/Time: ☐ 3 Day Name: Cell #: Verbal Results: CAC NANSON State (Required): 5 Day Phone: ☐ TEM Chat 0 580 Lead □ РСВ

2003 SAMPLE DESCRIPTION Page of S BULK SAMPLE CHAIN OF CUSTODY Special Instructions: **AEC Laboratories ID:** 000 Homogenous Area Material Type

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MAY 2 2 2015

labreports@americanenviron.com

781-337-0986

10:20

AEC Laboratories, LLC

814 Broad Street

Weymouth, MA 02189 Phone: 781-337-0567

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.

Genest & Sweller
(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



69 Bridge Street

Dedham, MA 02026

Phone 781.251.0040

Fax 781.251.0901

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: V	Vhitman Hanson High School	
Department: Facilities Ser	vices Training Mater	rials/Methods:	···
Power point	presentation, labels, quiz, etc.		
Name (Print)	Name (sign)	Title	Dept.
1. Paul Matuszko	Paul Water	Trainer	e file
2. John F. Kemmett	allem	HUAC	May Duin
3. Kevin Leadbetter	he latte		Main tenane
4. Jomes BETTER	Bulle	>	// //
5. MATT GARRY	Mathew 1- Go	W - MAINTENAM	10E -
6. Richard Finch	Richard Fin	who MAINHE	NaNE
7.			
8.			
9.			
10.			
11.			
12.			
13.			· · · · · · · · · · · · · · · · · · ·
14.			
15.			



Paul Mátuszko Environmental Consulting

	Names Richard Finch Date: 4/25/14	/	
	Department: Maintenance Title/Job: Maintan	ICE	
(Circle True (T) or False (F) which best answers each question:	True	Fals
	Asbestos-containing material (ACM) is defined as a material containing any percentage of asbestos.	T	F
2	2. Agencies that regulate asbestos include; the Federal EPA and OSHA and the Massachusetts DEP and DLS.	Θ	- ,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	E
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</u> <u>insulation</u> .	T	E
7.	Asbestos is used in building materials due to its excellent insulating properties, chemical resistance, tensile strength and easy manufacturing production properties.	(F
8.	Products containing asbestos can still be commercially purchased in the USA.	A	F
9.	The condition and friability of an ACM will determine its potential exposure hazard rating.	A	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	
12.	Amosite and crocidolite are the most commonly found asbestos types, while chrysotile is rare.	T	E
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	E
15.	In general, buildings constructed from 1945 to 1972 will contain the most ACMs.	7	F



Na	me: JChr F / Lem most Date: 4/25 Hy	<u></u>	
De	partment: HVAC Title/Job: MANTHACE		
Cir	cle 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	O
5.	A paper dust mask is sufficient to protect you from asbestos fibers inhalation.	T	Ē
6.	The three classes of ACMs are <u>surfacing material</u> , <u>flooring materials</u> and <u>thermal system insulation</u> .	T	E
7.	Asbestos is used in building materials due to its excellent insulating properties, chemical resistance, tensile strength and easy manufacturing production properties.	G)	F
8.	Products containing asbestos can still be commercially purchased in the USA.	Œ	F
9.	The condition and friability of an ACM will determine its potential exposure hazard rating.	\mathcal{A}	F
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14.	The health effects of asbestos are acute and can be reversed over time.	T	E
15.	In general, buildings constructed from 1945 to 1972 will contain the most ACMs.	(I)	F

Periodic Surveillance

School	Name	&	Address
_ +			

Date:

Performed by _____(signature of person performing surveillance)

Tank Insulation	200sf	Yes	Minor contact damage
ittinge			
−ແແເຊຣ	15 ea	No	
x9 mint green loor tiles	600sf	Yes	Cracks by univent
x9 brown floor iles	1200 sf	No	
2x12 white loor tiles	3200sf	No	Cracks by gym door still present
	loor tiles 0x9 brown floor iles 0x12 white	loor tiles 600sf 2x9 brown floor iles 1200 sf 2x12 white	loor tiles 600sf Yes 2x9 brown floor iles 1200 sf No 2x12 white



Na	me: Jones Belles Date: 4/25/19	Y	
De	partment: Title/Job: Moin		
Cia	rcle 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	R
2.	Agencies that regulate asbestos include; the Federal EPA and OSHA and the Massachusetts DEP and DLS.	7	F
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4.	As long as you don't smoke, your body's defense mechanisms will always protect you from asbestos exposure.	T	
5.	A paper dust mask is sufficient to protect you from asbestos fibers inhalation.	T	
6.	The three classes of ACMs are <u>surfacing material</u> , <u>flooring materials</u> and <u>thermal system insulation</u> .	T	P
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8.	Products containing asbestos can still be commercially purchased in the USA.		F
9.	The condition and friability of an ACM will determine its potential exposure hazard rating.		F
10.	An Asbestos Management Plan is only concerned with exposed asbestos pipe insulation and surfacing material in public areas.	T	1
11.	Anyone can legally remove asbestos in quantities less than 3 square or linear feet.	T	
12.	Amosite and crocidolite are the most commonly found asbestos types, while chrysotile is rare	e. T	
13.	Building owners/managers are required to post labels and warning signs only in the main boiler room of a building.	T	J.
14.	The health effects of asbestos are acute and can be reversed over time.	T	M
15.	In general, buildings constructed from 1945 to 1972 will contain the most ACMs.	A	F



Name: MATHON T. AROW Date: 4/25/14					
Department: MAINTENANCE / GROUNDS TITLE/Job: HEAD GROUNDS KEEPER					
Circle True (T) or False (F) which best answers each question:	True	False			
 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			
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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> .		F			
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11. Anyone can legally remove asbestos in quantities less than 3 square or linear feet.	T	F			
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 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	(\mathbf{F})			
15. In general, buildings constructed from 1945 to 1972 will contain the most ACMs.	T	F			



Paul Matuszko Environmental Consulting

Name: Kevin Leadhoffer Date: 4-25-14	<u>,</u>	
Department: Maintenance Title/Job:		<u></u>
Circle True (T) or False (F) which best answers each question:	True	False
 Asbestos-containing material (ACM) is defined as a material containing any percentage of asbestos. 	T	
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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	$\widehat{\mathbf{F}}$
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