HARFORD COUNTY
PUBLIC SCHOOLS
Inspire • Prepare • Achieve

Barbara P. Canavan, Superintendent of Schools
102 S. Hickory Avenue, Bel Air, Maryland 21014
Office: 410-838-7300 • www.hcps.org • fax: 410-893-2478

HARFORD COUNTY PUBLIC SCHOOLS
REQUEST FOR PROPOSALS FOR
HAZARDOUS MATERIAL VERIFICATION AND REMOVAL SPECIFICATION PREPARATION SERVICES

AUGUST 17, 2017

HAVRE DE GRACE HIGH SCHOOL / HAVRE DE GRACE MIDDLE SCHOOL

Scope of Service:

Harford County Public Schools (HCPS) has a need to acquire consultant services to conduct a survey and determine the extent of existing hazardous materials at the Havre de Grace High School building and site in preparation for the demolition of that facility for future site-related field and parking improvements.

HCPS also has a need to acquire consultant services to conduct a survey and determine the extent of existing hazardous materials at the Havre de Grace Middle School building and site in preparation for the demolition of that facility for future site-related field and parking improvements.

HCPS is, by this Request for Proposal (RFP), soliciting pricing from consultants for the building and site survey described above and as further defined below.

The hazardous materials referred to herein shall include:

1. Asbestos containing materials
2. Lead
3. PCBs
4. Contaminated soils
5. Mercury
6. CFC's
7. Any other material which is required by law to be removed and disposed as a hazardous material

The services the Consultant shall provide under this RFP shall include:

1. Review of drawings, specifications and other pertinent documents relating to the construction of the building and site to be surveyed.
2. Perform destructive and nondestructive testing and inspection as required to determine the extent of the hazardous materials defined above in this RFP.

3. Collect and test samples (PLM and TEM) as required to determine hazardous material content. Materials to be inspected and tested shall include but not be limited to:
    a) Building, pipe and duct insulation including pipe/duct concealed by walls or ceilings
    b) Waterproofing and damp proofing materials on building foundations and within exterior cavity walls
    c) Interior and exterior joint sealants
    d) Interior and exterior glazing compounds
    e) Mastic behind chalkboards, tackboards, etc.
    f) Interior and exterior plaster, transite, etc.
    g) Interior and exterior painted surfaces
    h) Glazed CMU
    i) Interior/exterior electrical fixtures, transformers, etc.
    j) Interior floor, wall and ceiling finishes
    k) Roofing materials and roof insulation
    l) Ceramic tile

4. Perform lead infiltration testing to discern whether lead containing materials may be crushed and used as fill or disposed as common waste.
5. If masonry with asbestos mastic is found, request reclassification of masonry with asbestos mastic to allow disposal as common waste, not as hazmat. This will include coordination with HCPS, Environmental Protection Agency (EPA) and MDE as necessary.
6. Document in a detailed report the results of the testing and inspection to include the types of hazardous materials encountered and the general location(s) where they were found.
7. Provide a complete set of bid documents to include drawings and specifications for the removal of all hazardous materials from the building(s) and site. HCPS and Grimm + Parker Architects will include these bid documents in the overall bid documents for the demolition of the building(s) and subsequent site improvement construction.

The subject high school is comprised of two (2) separate buildings that contain approximately 144,815 GSF of space. Removal of all hazardous materials is planned as a part of the demolition process. Consultants shall review this RFP document and submit proposals as specified herein. Copies of the HCPS AHERA management plan are attached to this RFP for your use and information during proposal preparation.

The subject middle school is approximately 102,000 GSF of space. Removal of all hazardous materials is planned as a part of the demolition process. Consultants shall review this RFP document and submit proposals as specified herein. Copies of the HCPS AHERA management plan are attached to this RFP for your use and information during proposal preparation.

Consultants shall review this RFP, the buildings(s), the site and the AHERA management plan in preparing pricing for the services described elsewhere in this RFP. Consultants shall provide pricing on the enclosed proposal form for HCPS consideration in the award of services.

Consultants shall provide a list of five (5) similar projects performed by their firm and the individual(s) that will be assigned to this survey project. Consultants shall submit proof of staff certification for the handling of hazardous materials in the State of Maryland. Certification verification should include the AHERA Building Inspector Course and AHERA Management Planner status as these apply to proposed staff. Licensed asbestos inspectors will conduct a survey of the building materials suspected to contain asbestos. The survey will be conducted in accordance with Occupational Safety and Health Administration requirements and EPA, AHERA guidelines for the locations and number of samples to be collected.

The work to be performed under this RFP shall be performed all at one time. Please note: all buildings will be occupied during testing. Any required destructive testing needs to be repaired for safety. The survey testing and inspection work required to be performed in the building(s) and on the site shall commence on September 1, 2017 and shall be 100% complete on or before September 22, 2017. Resulting reports shall be provided to HCPS on or before September 30, 2017. The required bid documents shall be provided to HCPS on or before September 30, 2017.

Consultant Service RFP responses shall be delivered to the HCPS Planning and Construction Department located at 102 South Hickory Avenue Bel Air, Maryland 21014, no later than NOON (Local Time) on Wednesday, August 30, 2017.

FAXED PROPOSALS WILL NOT BE ACCEPTED.

All proposals shall be directed to:

Mr. Harry Miller
Assistant Supervisor
Harford County Public Schools
Planning & Construction Department
102 South Hickory Avenue
Bel Air, Maryland 21014
Telephone (410) 809-6120

PROPOSALS must be received at the address listed above by:

AUGUST 30, 2017
12:00 NOON LOCAL TIME
NO EXCEPTIONS

CONSULTANT PRICING FORM

Havre de Grace High School Site Survey/Verification Including document review		_____
Havre de Grace High School Associated Testing/ Sample Analysis	PLM/Unit	_____
	TEM/Unit	_____
Havre de Grace High School Total Sampling Cost Projection		_____
Havre de Grace High School Specification Preparation		_____
Havre de Grace Middle School Site Survey/Verification Including document review		_____
Havre de Grace Middle School Associated Testing/ Sample Analysis	PLM/Unit	_____
	TEM/Unit	_____
Havre de Grace Middle School Total Sampling Cost Projection		_____
Havre de Grace Middle Specification Preparation		_____
Total Havre de Grace High School and Havre de Grace Middle School		_____

***** Consultants should provide an estimate of total testing/analysis costs based on a review of existing HCPS documents and a site tour. This estimate will be used to establish a reimbursable allowance for testing/analysis.

***** RFP responses are due in the Office of Planning and Construction at 102 South Hickory Avenue Bel Air, Maryland 21014 Noon on Wednesday, August 30, 2017.

August 2016 – AHERA 3-Year Re-Inspection Report

Havre De Grace Middle School

401 Lewis Lane
Havre De Grace, MD 21078

Prepared for:

Harford County Public Schools

102 South Hickory Avenue
Bel Air, MD. 21014

Prepared by:

SSM Group, Inc.
1047 North Park Road
Reading, PA. 19610

SSM Project No. 100368.0001

Management Plan updated by:

William M. Kathnowsky
State of Maryland
Inspector/Management Planner
(#130311)

HARFORD COUNTY PUBLIC SCHOOLS

HAVRE DE GRACE MIDDLE SCHOOL

AHERA 3-YEAR RE-INSPECTION REPORT

AUGUST, 2016

EXECUTIVE SUMMARY

The AHERA 3-Year Re-inspection of the Havre De Grace Middle School was conducted by Mr. William M. Katinowsky on August 2, 2016. Mr. Katinowsky is an EPA AHERA accredited Building Inspector/Management Planner, who is also licensed in the same capacity by the Maryland Department of the Environment (MDE). The re-inspection was performed in accordance with EPA 40 CFR, Part 763, which is commonly referred to as AHERA.

During the re-inspection, Mr. Katinowsky identified and assessed the condition and quantity of all known ACM, as noted in the previous re-inspection. Locations, quantities and assessment conditions are noted on the Room-by-Room Inventory of ACM included with this report. There were no damaged or significantly damaged materials found during this inspection.

ADDITIONAL MATERIAL(S) ADDED

Stage light wire insulation was assumed during this re-inspection.

MATERIALS ADDED DURING THE 2013 INSPECTION

During the 2013 AHERA 3-year re-inspection cove base and cove base adhesive was added. Most of these materials were replacement materials of original materials and were non-asbestos containing materials. SSM recommends that since these materials were added as assumed to contain asbestos, they continue to be monitored and sampled prior to removal or renovation of the materials. SSM recommends bulk sampling only if these materials will be removed/impacted during future renovations.

BULK SAMPLING

No bulk samples were collected during this re-inspection.

RESPONSE ACTIONS

No known response actions were taken since the previous re-inspection.

CONCLUSION

Floor tile and associated mastic, fitting insulation and widow glazing remain in the building. There are several areas where the floor tile is slightly damaged. Also, two (2) sections of damaged fittings were discovered in the Custodial Office. SSM recommends that you monitor the condition of the materials and repair/ remove as needed. Continue to handle all ACM and assumed ACM in accordance with your current Operations and Maintenance (O&M) Plan. We also remind you to continue to provide maintenance and custodial staff with annual asbestos awareness training, continue to provide annual notification to building staff, parents and guardians, and to assure that copies of all inspection reports and AHERA documentation are maintained in your central AHERA files (located in the Maintenance Facility) and at each individual school (main office in a location that is easily accessible by office staff).

Section 4-1: Material Summary and Estimated Cost of Removal for the Havre De Grace Middle School

Material & Location	Type	Quantity	Estimated Cost of Removal
Throughout the Building			
Floor Tile and Mastic	M	20,000 S.F.	$80,000
Fitting Insulation	T	410 Ea.	$10,300
Exterior Window Glazing	M	500 L.F.	$3,000

M- Miscellaneous ACM
L.F.= Linear Feet
S.F.= Square Feet

Section 6-1: Recommended Minimum Response Actions for the Havre De Grace Middle School

Material & Location	Quantity	Response Action
Throughout the Building		
Floor Tile and Mastic	20,000 S.F.	Handle Under the O&M Program
Fitting Insulation	410 Ea.	Handle Under the O&M Program
Exterior Window Glazing	500 L.F.	Handle Under the O&M Program

M- Miscellaneous ACM
L.F.= Linear Feet
S.F.= Square Feet

Algorithm Values

ALGORITHM VALUES - SHORT FORM

Damaged Condition (DC) -
- 0 Intact, Encapsulated
- 1 Intact, Minor Water Stain
- 2 Intact, Cover Poor, Moderate Stain, No Damage
- 3 Minor Damage, Scrapes, etc., Duct Tape Repair
- 5 Damage, Fix with Patch, Repair and Encapsulate
- 7 Significant Damage, Some Removal Needed
- 10 Very Significant Damage, Removal Mandated

Exposure Factor (E) -
- 0 Inaccessible or Non-friable
- 1 Very Limited Access
- 2 Maintenance Area Like Boiler Room or Above 2x4's
- 3 Public Area, 10 Feet and Higher
- 4 Public Area, 10 Feet and Lower

Activity Level (AT) -
- 0 Behind Walls, Locked Closet, etc.
- 1 Low or Medium Usage (1-3 Persons, 8 Hr/Day)
- 2 #1 with Vibration or Public Area
- 4 High Activity (Gym, Loading Dock) and/or High Vibration

Air Flow Factor (AF) -
- 0 No Impingement, Little or No Air Flow
- 1 Low Air Flow or Air Velocity, No Impingement
- 2 Air Stains, Moderate Velocity, Piston Effect
- 4 High Air Velocity, Air Erosion

Potential Damage (PD) -
- 0 No ACM
- 1 ACM, No Potential Damage
- 2 Possible Potential Damage
- 3 Potential Damage Expected
- 4 Possible Significant Potential Damage
- 5 Significant Potential Damage Expected

Friability (F) -
- 1 Non-Friable, Behind Walls, etc.
- 2 Encapsulated, Ceiling Tile, Hard Surface
- 3 Friable - Standard ACM and Fittings
- 5 Highly Friable - Delaminating, "Fluffy" Fireproofing

Percent Asbestos (PA) -
- 0 = No ACM
- 1 = >1% but <25% - Chrysotile Only
- 2 = 25% to 80% - Chrysotile Only
- 3 = >80% - or any percentage of amosite, crocidolite, anthophyllite, tremolite or actinolite

Linear Feet (L)
Square Feet (S) -
Refers to quantity of ACM
- L Linear Feet
- S Square Feet

Asbestos License

MDE

William Katinowski
Name

Signature

Inspector/Management Planner Review
Course Title

Course Date: 12/03/2015
Exp Date: 12/03/2016
Exam Date: 01/07/2016

STATE OF MARYLAND

15024901

Allsafe Environmental
Training Provider

375 Kriswell Dr
Address

Boiling Springs,PA 17007
City, State, Zip

717-258-4109
Phone

MDE

Lorraine Anderson
Name of Training Director

For additional information, call MDE (410) 537-3200

Form A: AHERA Three (3) Year (2013) Reinspection Data Summary

1	**Harford County Public Schools**		
		LEA Point of Contact:	Cynthia Yost, Environmental Compliance Coordinator
		Facility Number and Name:	
2		**Facility Address:**	Havre De Grace Middle School
			7401 Lewis Lane, Havre De Grace, MD 21078-3089
3		**Date of Inspection**	8/14/2010
4		**EPA Accredited Inspector(s)**	Edward Clarke MD # 120333
		Management Planner(s)	Joseph Williamson MD # 121323
5	5A	**Information provided by HCPS to Meemsco for Review:**	
			Abatement records provided by HCPS are attached
	5B	**Comments and Issues:**	Mudded fittings in Room J-4 and window glazing at some windows are still present
			Floor tile and mastic were removed from Room 20 instead of 18 as was reported in the last reinspection report.
			Assumed Cove base and cove base adhesive glue were found throughout the building.

Form A: Homogeneous Area Assessment and Response Action Form

6	**Previously Tested Materials with <u>no asbestos detected</u> (NAD)**					
Homogeneous Material Description		Location(s)	Sampling Information			
			Samples Adequate?	Samples Collected for HA		
HA ID:	Type: Misc.			**N/A**		
HA ID:	Type: Misc.			**N/A**		
HA ID:	Type Misc.			**N/A**		
HA ID:	Type Misc.			N/A		

Form A: Homogeneous Area Assessment and Response Action Form

7	Description of Asbestos Removal Projects during the last three years, including dates and location of work.
X	
	January 23, 2012, asbestos containing glue and mastic were removed from behind a 6" wallboard in Room 36. Full containment was utilized.
	February 7, 2012, asbestos containing pipe insulation was removed from the hallway between RM 20and 22. Glovebag methods were utilized.
	April 4-5, 2012, asbestos containing window glazing and caulks were removed from hallway by the Media Center. Mini containment was utilized.
	June 9, 2011, windows were removed from the 7th grade hallway. Mini containment was utilized.
	July 18-22, 2011, asbestos containment floor tile and mastic were removed from Room #s 22 and 23. Full containment was utilized.
	Jun 2013 - floor tile mastic and carpet removed from Media Center using full containment
	July 2014 5,365 sq ft. tile removed (26, 27, 31, 32 + 33)

Form A: Homogeneous Area Assessment and Response Action Form

8	New suspect ACBM identified during 2013 Re-inspection					
Homogeneous Material Description		Location(s)	Sampling Information			
			ACM?	Samples Collected for HA		
HA ID: M001	Type: **Misc.**	Throughout	A			
Detail: 2 x 4 White ceiling tiles						
HA ID: M002	Type: **Misc.**	Throughout	A			
Detail: 12 x 12 Floor Tiles (Various Colors)						
HA ID: M003	Type: **Misc.**	Throughout	A			
Detail: Mastic under flooring material						
HA ID: M004	Type: **Misc.**	Throughout	A			
Detail: Ceramic Tile & Ceramic tile grout						

Form A: Homogeneous Area Assessment and Response Action Form

9 Assessment of Friable and Non-friable Assumed Positive or Tested Positive Materials

Homogeneous Material Description	Location(s)	ACM	Friable?	Assessment and Response Action			
				AHERA Assessment Category		Management Planner's recommended Response Action	
				Prior	Current	Action	Notes/Comments
HA ID: M001 Type: **Misc.** Detail 2 x 4 White ceiling tiles	Throughout	**A**	**F**	**5**	**5**	**O & M**	
HA ID: M002 Type: **Misc.** Detail 12 x 12 Floor Tiles (Various Colors)	Throughout	**Y**	**NF**	**7**	**7**	**AR**	
HA ID: M003 Type: **Misc.** Detail: Mastic under flooring material	Throughout	**A**	**NF**	**5**	**5**	**O & M**	
HA ID: M004 Type: **Misc** Detail: Ceramic Tile & Ceramic tile grout	Throughout	A	F	5	5	**O & M**	**Grout is Friable**

Key to Abbreviations:	
Type:	TSI= Thermal Systems Insulation, Surf.= Surfacing Material, Misc.= Miscellaneous Material
ACM:	A= Assumed, Y= Determined to be asbestos through sampling.
Friable	F= Friable, NF= Non-friable.
AHERA Assessment Category:	**1)**= Damaged or significantly damaged TSI ACBM, **2)**= Damaged friable surfacing ACBM, **3)**= Significantly damaged friable surfacing ACBM **4)**= Damaged or significantly damaged friable miscellaneous ACBM, **5)**= ACBM with potential for damage, **6)**= ACBM with potential for significant damage **7)**= Any remaining friable ACBM or friable suspected ACBM. **(8)**= Not applicable (non friable surfacing or miscellaneous material).
Response Action:	O&M= Continue surveillance and Operations and Maintenance, AR= Abatement Required as soon as possible.

Form A: Homogeneous Area Assessment and Response Action Form

9 Assessment of Friable and Non-friable Assumed Positive or Tested Positive Materials

Homogeneous Material Description	Location(s)	ACM	Friable?	Assessment and Response Action			
				AHERA Assessment Category		Management Planner's recommended Response Action	
				Prior	Current	Action	Notes/Comments
HA ID: M005 Type: **Misc.** Detail Cove Base & Cove Base Adhesive	Throughout	**A**	**NF**	**5**	**5**	**O & M**	
HA ID: M006 Type: **Misc.** Detail Fire Doors	Throughout	**A**	**NF**	**N/A**	**5**	**O & M**	
HA ID: Type: **Misc.** Detail 9" x 9" floor tile	Throughout	X	NF				see 2004 reinspection HBM 1-0928a HBM 1-0928b
HA ID: M012 Type: **Misc.**							

Key to Abbreviations:

Type:	TSI= Thermal Systems Insulation, Surf.= Surfacing Material, Misc.= Miscellaneous Material
ACM:	A= Assumed, Y= Determined to be asbestos through sampling.
Friable	F= Friable, NF= Non-friable.
AHERA Assessment Category:	**1)**= Damaged or significantly damaged TSI ACBM, **2)**= Damaged friable surfacing ACBM, **3)**= Significantly damaged friable surfacing ACBM **4)**= Damaged or significantly damaged friable miscellaneous ACBM, **5)**= ACBM with potential for damage, **6)**= ACBM with potential for significant damage **7)**= Any remaining friable ACBM or friable suspected ACBM. **(8)**= Not applicable (non friable surfacing or miscellaneous material).
Response Action:	O&M= Continue surveillance and Operations and Maintenance, AR= Abatement Required as soon as possible.

AHERA Three (3) Year Reinspection - 2010
Asbestos Management Plan Update
SUMMARY SHEET

FACILITY: Havre De Grace Middle School
ADDRESS: 7401 Lewis Lane, Havre De Grace, MD 21078-3089
DATE: 7/8/2010
EPA ACCREDITED INSPECTOR/ACCREDITATION NO.: Charles McEleney MD # 106225
SIGNATURE:
EPA MANAGEMENT PLANNER/ACCREDITATION NO.: Charles McEleney MD # 106225
SIGNATURE:

PREVIOUSLY IDENTIFIED OR ASSUMED ACM:

Throughout
- mud pipe fittings - 410 fittings
- 9"x9" floor tile - 20,000 sf

Exterior
- window glazing - 500 lf

CHANGES IN MATERIAL CONDITION:

None

ADDITIONAL COMMENTS/ABATEMENT PROJECTS:

Small scale floor tile removal projects have been undertaken since previous AHERA reinspection, including in rooms 18, 20, 28 and 34.

Mud fittings were also identified below the ceiling in closet J-4.

NEWLY IDENTIFIED/SAMPLED MATERIALS:

None glue spots -

AHERA Three (3) Year Reinspection - 2010
Asbestos Management Plan Update
SUMMARY SHEET

FACILITY: Havre De Grace Middle School
ADDRESS: 7401 Lewis Lane, Havre De Grace, MD 21078-3089
DATE: 7/8/2010

REMAINING ACM IN BUILDING:

Throughout	
mud pipe fittings - 410 fittings	5,305 SF
9"x9"" floor tile - 20,000 sf	634 SF
Exterior	
window glazing - 500 lf	

mud pipe fittings - good condition
9"x9" floor tile and mastic - good condition
window glazing - good condition

Mud pipe fittings present above metal pan ceiling. Also, below the ceiling in M-2 storage, elec room, S-2, and J-4.

9"x9" floor tile is present throughout. Some tiles around exterior wall are coming up but overall are intact. Mastic was previosly tested to be non-asbestos.

AHERA Three (3) Year Reinspection - 2010
Asbestos Management Plan Update
BULK SAMPLE DOCUMENTATION

FACILITY: Havre De Grace Middle School
ADDRESS: 7401 Lewis Lane, Havre De Grace, MD 21078-3089
DATE: 7/8/2010
COLLECTED BY: Charles R. McEleney

Sample No.	Friable		Homogeneous Area	Description of Exact Location	Percent Asbestos
	Yes	No			
N/A	N/A	N/A	N/A	N/A	N/A

NAD = No Asbestos Detected

AHERA Three (3) Year Reinspection - 2010
Asbestos Management Plan Update
HOMOGENEOUS AREA ASSESSMENT

FACILITY: Havre De Grace Middle School
ADDRESS: 7401 Lewis Lane, Havre De Grace, MD 21078-3089
DATE: 7/8/2010
INSPECTOR: Charles McEleney
SAMPLE ID: N/A

Material Type: Mud Pipe Fittings Location: Throughout
Area: Sq. Ft. _____ Ln. Ft. _____ 410

COMMENTS (Optional)
Mud pipe fittings are present on fiberglass insulated piping. The material is located above the metal pan ceiling throughout the building and below the ceiling in S-2, M-2 Storage Room, the elec room and J-4. Material was observed to be in good condition above missing panels in corridor ceiling.

HAZARD ASSESSMENT FACTORS

DAMAGE FACTORS

Physical	
Significant	
Moderate	
Light	
None	X

Water	
Extensive	
Moderate	
Slight	
None	X

Deterioration	
Heavy	
Moderate	
Light	X
None	

DISTURBANCE FACTORS

Proximity to Repair Items	
<1 Ft.	
1 to 5 Ft.	
Over 5 Ft.	X

Accessible	
Within Reach	
Barely	X
Unreachable	

Texture	
Rough	
Pitted	
Moderate	X
Smooth	

Adjacent Rooms	
Gymnasium	
Music Rm.	
Mech. Rm.	
Elevators	

AIR FLOW FACTORS

Barriers	
Permanent	
Encapsulated	
None	
Enclosed	X

Ventilation	
Yes	
None	
If Yes, Intake	
Exhaust	

Air Movement	
High	
Moderate	
Low	

Air Conduits	
Air Plenum	
Air Shaft	
Elevator	
Shaft	

AHERA Three (3) Year Reinspection - 2010
Asbestos Management Plan Update
REINSPECTION SUMMARY TABLE

FACILITY: Havre De Grace Middle School
ADDRESS: 7401 Lewis Lane, Havre De Grace, MD 21078-3089
DATE: 7/8/2010

Homogeneous Area (#), Type of Materials	Sampled 2007 (Y/N)	Friable 2007 (Y/N)	Changes 2010 (Y/N)	Friable 2010 (Y/N)	Sampled 2010 (Y/N)	AHERA Class.	Response Action	Hazard Rank #	Schedule (Initial - Completion)
Mud Pipe Fittings	N	Y	N	Y	N	5	O&M	2	Ongoing
9"x9" floor tile	N	N	N	N	Y	N/A	O&M	1	Ongoing
Window Glazing	N	N	N	N	N	N/A	O&M	1	Ongoing

KEY:

Homogeneous Area
T - Thermal System Insulation
S - Surfacing Material
M - Miscellaneous

Response Action
RM - Remove
RP - Repair
ECP - Encapsulate
O&M - Operations and Maintenance
ISL - Isolate

AHERA Three (3) Year Reinspection - 2010
Asbestos Management Plan Update
Resource Evaluation

FACILITY: Havre De Grace Middle School
ADDRESS: 7401 Lewis Lane, Havre De Grace, MD 21078-3089
DATE: 7/8/2010

Costs are projected for removing and for repairing and encapsulating the ACMs assessed during the AHERA Building Re-inspection. The cost estimates are based upon unit cost rates for abatement of various ACMs and are provided for general planning purposes only. Many project-specific factors, including economies of scale, contract and schedule requirements, etc. will affect the actual costs for abatement. The cost estimates provided do not include the cost of replacement of the materials removed or for professional Industrial Hygiene Services, such as project design and air monitoring.

The following pages show response action costs, which are based upon an assessment of the potential health hazard as reflected by the hazard ranking. The hazard ranking system derives from the Hazard Potential Algorithm used by the AHERA Building Inspector to assess the condition of ACM and was approved for use in this reinspection by the Harford County Public Schools AHERA designated person.

Generally, the following Hazard Ranking Values initiate the following actions:

Hazard Ranking	Response Action
6	Schedule for immediate removal.
5	Schedule for immediate action (repair/encapsulation or removal).
4	Monitor. Schedule for near term action.
3	Monitor. Schedule for future removal.
2	Monitor. As long as ACM condition does not change or use of area in which ACM exists does not change, schedule for removal later when monies are available.
1	Monitor. Generally no other action is required unless the building is renovated or demolished.

AHERA Three (3) Year Reinspection - 2010
Asbestos Management Plan Update

Budgetary Costs by Hazard Ranking
Harford County Public Schools

Material	Quantity	Repair/ Encapsulate	Remove
A. Damaged ACM, Hazard Categories 3, 4, 5, 6			
Hazard Category 6 N/A			
Hazard Category 5 N/A			
Hazard Category 4 N/A			
Hazard Category 3 N/A			
B. Undamaged ACM, Hazard Categories 1, 2			
Hazard Category 2			
Mud Pipe Fittings	410	N/A	$10,250
Hazard Category 1			
9"x9" floor tile	20,000 sf	N/A	$70,000
Window glazing	500 lf	N/A	$15,000

AEROSOL MONITORING & ANALYSIS, INC.

This is to certify that

CHARLES R. MCELENEY

has met the attendance requirements and successfully completed the course entitled

8-Hr EPA AHERA Insp/Mgmt Planner Refresher

For Accreditation Under TSCA Title II.

2/18/2010	2/18/2010	2/18/2011	ROBERTA SPRATT-RITTER
Course Date	**Exam Date**	**Expiration Date**	**Principal Instructor**

106225	VA106225	E. RUSH BARNETT
Certification No.	**Virginia Certification No.**	**Course Director**

1331 Ashton Road P.O. Box 646 Hanover, MD 21076 P: 410-684-3327 F: 410-684-3724

www.amatraining.com

AHERA Three (3) Year Reinspection - 2007
Asbestos Management Plan Update
SUMMARY SHEET

FACILITY: Havre De Grace Middle School
ADDRESS: 7401 Lewis Lane, Havre De Grace, MD 21078-3089
DATE: 7/20/2007
EPA ACCREDITED INSPECTOR/ACCREDITATION NO.: Charles McEleney MD # 086055
SIGNATURE:
EPA MANAGEMENT PLANNER/ACCREDITATION NO.: Charles McEleney MD # 086055
SIGNATURE:

PREVIOUSLY IDENTIFIED OR ASSUMED ACM:

Throughout
- mud pipe fittings - 410 fittings
- 9"x9" floor tile - 20,000 sf

Exterior
- window glazing - 500 lf

CHANGES IN MATERIAL CONDITION:

One damaged mud elbow was identified near shelves in Room S-2. Abatement Report # 14827 8/20/07 A.I.

ADDITIONAL COMMENTS/ABATEMENT PROJECTS:

Small scale projects to remove window glazing have been undertaken since the previous reinspection.
9"x9" floor tile was removed from Room 27 since the previous reinspection.
Mud fittings in the Boys Rest Room of Health Suite were removed since the previous reinspection.
Student laboratory table tops are not suspect ACM. However, some older lab counters are present and may contain asbestos.

NEWLY IDENTIFIED/SAMPLED MATERIALS:

AHERA Three (3) Year Reinspection - 2007
Asbestos Management Plan Update
SUMMARY SHEET

FACILITY: Havre De Grace Middle School
ADDRESS: 7401 Lewis Lane, Havre De Grace, MD 21078-3089
DATE: 7/20/2007

REMAINING ACM IN BUILDING:

Throughout
- mud pipe fittings - 410 fittings
- 9"x9"" floor tile - 20,000 sf

Exterior
- window glazing - 500 lf

mud pipe fittings - good condition
9"x9" floor tile - good condition
window glazing - good condition

Mud pipe fittings present above metal pan ceiling. Also, below the ceiling in M-2 storage, elec room, and S-2.

9"x9" floor tile is present throughout. Some tiles around exterior wall are coming up but overall are intact. Mastic was previosly tested to be non-asbestos.

AHERA Three (3) Year Reinspection - 2007
Asbestos Management Plan Update
BULK SAMPLE DOCUMENTATION

FACILITY: Havre De Grace Middle School
ADDRESS: 7401 Lewis Lane, Havre De Grace, MD 21078-3089
DATE: 7/20/2007
COLLECTED BY: Charles R. McEleney

Sample No.	Friable		Homogeneous Area	Description of Exact Location	Percent Asbestos
	Yes	No			
			No Bulk Samples Collected		

NAD = No Asbestos Detected

AHERA Three (3) Year Reinspection - 2007
Asbestos Management Plan Update
HOMOGENEOUS AREA ASSESSMENT

FACILITY: Havre De Grace Middle School
ADDRESS: 7401 Lewis Lane, Havre De Grace, MD 21078-3089
DATE: 7/20/2007
INSPECTOR: Charles McEleney
SAMPLE ID: N/A

Material Type: Mud Pipe Fittings Location: Throughout
Area: Sq. Ft. _____ Ln. Ft. _____ 410

COMMENTS (Optional)
Mud pipe fittings are present on fiberglass insulated piping. The material is located above the metal pan ceiling throughout the building and below the ceiling in S-2, M-2 Storage Room, and the Electrical Room. One damaged elbow was noted in the S-2 storage room. Damage due to contact with storage items on shelf.

HAZARD ASSESSMENT FACTORS

DAMAGE FACTORS

Physical	
Significant	
Moderate	
Light	
None	X

Water	
Extensive	
Moderate	
Slight	
None	X

Deterioration	
Heavy	
Moderate	
Light	X
None	

DISTURBANCE FACTORS

Proximity to Repair Items	
<1 Ft.	
1 to 5 Ft.	
Over 5 Ft.	X

Accessible	
Within Reach	
Barely	X
Unreachable	

Texture	
Rough	
Pitted	
Moderate	X
Smooth	

Adjacent Rooms	
Gymnasium	
Music Rm.	
Mech. Rm.	
Elevators	

AIR FLOW FACTORS

Barriers	
Permanent	
Encapsulated	
None	X
Enclosed	

Ventilation	
Yes	
None	
If Yes, Intake	
Exhaust	

Air Movement	
High	
Moderate	
Low	

Air Conduits	
Air Plenum	
Air Shaft	
Elevator	
Shaft	

AHERA Three (3) Year Reinspection - 2007
Asbestos Management Plan Update
REINSPECTION SUMMARY TABLE

FACILITY: Havre De Grace Middle School
ADDRESS: 7401 Lewis Lane, Havre De Grace, MD 21078-3089
DATE: 7/20/2007

Homogeneous Area (#), Type of Materials	Sampled 2004 (Y/N)	Friable 2004 (Y/N)	Changes 2007 (Y/N)	Friable 2007 (Y/N)	Sampled 2007 (Y/N)	AHERA Class.	Response Action	Hazard Rank #	Schedule (Initial - Completion)
Mud Pipe Fittings	N	Y	N	Y	N	5	O&M	2	Ongoing
9"x9" floor tile	N	N	N	N	Y	N/A	O&M	1	Ongoing
Window Glazing	N/A	N/A	N/A	N	N	N/A	O&M	1	Ongoing
One damaged Pipe Fitting in S-2							RM	4	

KEY:

Homogeneous Area
T - Thermal System Insulation
S - Surfacing Material
M - Miscellaneous

Response Action
RM - Remove
RP - Repair
ECP - Encapsulate
O&M - Operations and Maintenance
ISL - Isolate

AHERA Three (3) Year Reinspection - 2007
Asbestos Management Plan Update
Resource Evaluation

FACILITY: Havre De Grace Middle School
ADDRESS: 7401 Lewis Lane, Havre De Grace, MD 21078-3089
DATE: 7/20/2007

Costs are projected for removing and for repairing and encapsulating the ACMs assessed during the AHERA Building Re-inspection. The cost estimates are based upon unit cost rates for abatement of various ACMs and are provided for general planning purposes only. Many project-specific factors, including economies of scale, contract and schedule requirements, etc. will affect the actual costs for abatement. The cost estimates provided do not include the cost of replacement of the materials removed or for professional Industrial Hygiene Services, such as project design and air monitoring.

The following pages show response action costs, which are based upon an assessment of the potential health hazard as reflected by the hazard ranking. The hazard ranking system derives from the Hazard Potential Algorithm used by the AHERA Building Inspector to assess the condition of ACM and was approved for use in this reinspection by the Harford County Public Schools AHERA designated person.

Generally, the following Hazard Ranking Values initiate the following actions:

Hazard Ranking	Response Action
6	Schedule for immediate removal.
5	Schedule for immediate action (repair/encapsulation or removal).
4	Monitor. Schedule for near term action.
3	Monitor. Schedule for future removal.
2	Monitor. As long as ACM condition does not change or use of area in which ACM exists does not change, schedule for removal later when monies are available.
1	Monitor. Generally no other action is required unless the building is renovated or demolished.

AHERA Three (3) Year Reinspection - 2007
Asbestos Management Plan Update

Budgetary Costs by Hazard Ranking
Harford County Public Schools

Material	Quantity	Repair/ Encapsulate	Remove
A. Damaged ACM, Hazard Categories 3, 4, 5, 6			
Hazard Category 6 N/A			
Hazard Category 5 N/A			
Hazard Category 4 Mud pipe fitting in Room S-2	1		$ 350.00
Hazard Category 3 N/A			
B. Undamaged ACM, Hazard Categories 1, 2			
Hazard Category 2			
Mud Pipe Fittings	410	N/A	$10,250
Hazard Category 1			
9"x9" floor tile	20,000 sf	N/A	$70,000
window glazing	500 lf	N/A	$15,000

AEROSOL MONITORING & ANALYSIS, INC.

This is to certify that

CHARLES R. MCELENEY

has met the attendance requirements and successfully completed the course entitled

8-Hr EPA AHERA Insp/Mgmt Planner Refresher

For Accreditation Under TSCA Title II.

10/2/2007	*10/2/2007*	*10/1/2008*	*ROBERTA SPRATT-RITTER*	
Course Date	***Exam Date***	***Expiration Date***	***Principal Instructor***	
92527	*VA92527*		*E. RUSH BARNETT*	
Certification No.	***Virginia Certification No.***		***Course Director***	

1331 Ashton Road *P.O. Box 646* *Hanover, MD 21076* *P: 410-684-3327* *F: 410-684-3724*

www.amatraining.com

MEMORANDUM

2209 Conowingo Road Bel Air MD 21015 410.638.4088 FAX:410.638.4205

To: All Principals

From: Laura M. Paligo
Environmental Compliance Coordinator

Subject: Reinspections for AHERA Compliance

Date: August 23, 2004

The Asbestos Hazard Emergency Response Act (AHERA) requires all Local Education Agencies (LEAs) to complete inspections that identify asbestos containing materials (ACM) in all school buildings. Results of the inspection must then be compiled in a Management Plan to instruct building occupants, maintenance staff, parents, and any other interested parties how to safely and effectively manage any asbestos identified during the inspection.

Following the initial inspection, the LEA is required to conduct reinspections at least once every three years. Spotts, Stevens, and McCoy conducted the initial inspection for most of the schools in Harford County. The first reinspection was performed in 1992 by I-TEM, Ltd. The next reinspections were performed in 1995 by Testwell Craig Testing Laboratories, Inc., 1998 by Brook Environmental and Engineering Corporation, and 2001 by Jenkins Environmental Inc. This year's reinspection will be performed by C & R Environmental, Inc.

The reinspections involve visual inspection, collecting samples of some building materials for analysis, and updating management plans. Any samples taken will be small and the sample locations will be patched. The on site work will require several days at each building. Activities connected with the reinspections will require contractor personnel to work in the school building during regular school hours and some evening hours. Scheduling will require cooperation between the school, contractor, and Facilities Department personnel.

Site work will begin around August 17, 2004. You will receive the school's copy of the reinspection report as it becomes available. Each site will be notified as the details in scheduling are finalized. Please inform building occupants of the upcoming activities. Please call me at ext. 4088 if you have any questions.

pc: Patti Jo Beard

AHERA Three (3) Year Reinspection - 2004
Asbestos Management Plan Update
SUMMARY SHEET

FACILITY: Havre De Grace Middle School
ADDRESS: 7401 Lewis Lane, Havre De Grace, MD 21078-3089
DATE: 9/28/2004
EPA ACCREDITED INSPECTOR/ACCREDITATION NO.: Charles McEleney MD # 75043
SIGNATURE:
EPA MANAGEMENT PLANNER/ACCREDITATION NO.: Charles McEleney MD # 75043
SIGNATURE:

PREVIOUSLY IDENTIFIED OR ASSUMED ACM:

Throughout
- mudded pipe fittings - 421 fittings

Storage Rooms
- 9"x9" floor tile - 150 sf
- 9"x9" floor tile mastic - 150 sf

CHANGES IN MATERIAL CONDITION:

None

ADDITIONAL COMMENTS/ABATEMENT PROJECTS:

Floor tile information presented in 2002 reinspection report is not accurate. See notes on next page.

Mud fittings were removed from Mech Rm M-2 in 2002.

Small scale projects to remove window glazing have been undertaken.

NEWLY IDENTIFIED/SAMPLED MATERIALS:

Exterior
- Window glazing was identified to be ACM through BOE testing since 2002.

AHERA Three (3) Year Reinspection - 2004
Asbestos Management Plan Update
BULK SAMPLE DOCUMENTATION

FACILITY: Havre De Grace Middle School
ADDRESS: 7401 Lewis Lane, Havre De Grace, MD 21078-3089
DATE: 9/28/2004
COLLECTED BY: Charles R. McEleney

Sample No.	Friable		Homogeneous Area	Description of Exact Location	Percent Asbestos
	Yes	No			
HGM-1-0928a		X	9"x9" Tan Floor Tile	Room 27, near door threshold	2% Chrysotile
HGM-1-0928b		x	9"x9" Tan Floor Tile Mastic	Room 27, near door threshold	NAD

NAD = No Asbestos Detected

AHERA Three (3) Year Reinspection - 2004
Asbestos Management Plan Update
HOMOGENEOUS AREA ASSESSMENT

FACILITY: Havre De Grace Middle School
ADDRESS: 7401 Lewis Lane, Havre De Grace, MD 21078-3089
DATE: 9/28/2004
INSPECTOR: Charles McEleney
SAMPLE ID: N/A

Material Type: Mud Pipe Fittings Location: Throughout
Area: Sq. Ft. _____ Ln. Ft. _____ 410

COMMENTS (Optional)
Mud pipe fittings are present on fiberglass insulated piping. The material is located above the metal pan ceiling throughout the building. The fittings are intact and in good condition. Four fittings are exposed below the ceiling in M-2.

HAZARD ASSESSMENT FACTORS

DAMAGE FACTORS

Physical	
Significant	
Moderate	
Light	
None	X

Water	
Extensive	
Moderate	
Slight	
None	X

Deterioration	
Heavy	
Moderate	
Light	X
None	

DISTURBANCE FACTORS

Proximity to Repair Items	
<1 Ft.	
1 to 5 Ft.	
Over 5 Ft.	X

Accessible	
Within Reach	
Barely	X
Unreachable	

Texture	
Rough	
Pitted	
Moderate	X
Smooth	

Adjacent Rooms	
Gymnasium	
Music Rm.	
Mech. Rm.	
Elevators	

AIR FLOW FACTORS

Barriers	
Permanent	
Encapsulated	
None	X
Enclosed	

Ventilation	
Yes	
None	
If Yes, Intake	
Exhaust	

Air Movement	
High	
Moderate	
Low	

Air Conduits	
Air Plenum	
Air Shaft	
Elevator	
Shaft	

AHERA Three (3) Year Reinspection - 2004
Asbestos Management Plan Update
Resource Evaluation

FACILITY: Havre De Grace Middle School
ADDRESS: 7401 Lewis Lane, Havre De Grace, MD 21078-3089
DATE: 9/28/2004

Costs are projected for removing and for repairing and encapsulating the ACMs assessed during the AHERA Building Re-inspection. The cost estimates are based upon unit cost rates for abatement of various ACMs and are provided for general planning purposes only. Many project-specific factors, including economies of scale, contract and schedule requirements, etc. will affect the actual costs for abatement. The cost estimates provided do not include the cost of replacement of the materials removed or for professional Industrial Hygiene Services, such as project design and air monitoring.

The following pages show response action costs, which are based upon an assessment of the potential health hazard as reflected by the hazard ranking. The hazard ranking system derives from the Hazard Potential Algorithm used by the AHERA Building Inspector to assess the condition of ACM and was approved for use in this reinspection by the Harford County Public Schools AHERA designated person.

Generally, the following Hazard Ranking Values initiate the following actions:

Hazard Ranking	Response Action
6	Schedule for immediate removal.
5	Schedule for immediate action (repair/encapsulation or removal).
4	Monitor. Schedule for near term action.
3	Monitor. Schedule for future removal.
2	Monitor. As long as ACM condition does not change or use of area in which ACM exists does not change, schedule for removal later when monies are available.
1	Monitor. Generally no other action is required unless the building is renovated or demolished.

AEROSOL MONITORING & ANALYSIS, INC.

THIS IS TO CERTIFY THAT

CHARLES R. MCELENEY

HAS MET THE ATTENDANCE REQUIREMENTS AND SUCCESSFULLY COMPLETED
THE COURSE ENTITLED

8-HR EPA AHERA INSP/MGMT PLANNER RECERTIFICATION

For Accreditation Under TSCA Title II.

7/9/2004
COURSE DATE

7/9/2005
EXPIRATION DATE

7/9/2004
EXAM DATE

E. RUSH BARNETT E. Rush Barnett
COURSE DIRECTOR

MD-074053
CERTIFICATE NO.

1331 Ashton Road P.O. Box 646 Hanover, MD 21076 410-684-3327 FAX: 410-684-3724

MEMORANDUM

2209 Conowingo Road Bel Air MD 21015 410.638.4088 FAX:410.638.4205

To: All Principals

From: Laura M. Paligo
Environmental Compliance Coordinator

Subject: Reinspections for AHERA Compliance

Date: December 19, 2001

The Asbestos Hazard Emergency Response Act (AHERA) requires all Local Education Agencies (LEAs) to complete inspections that identify asbestos containing materials (ACM) in all school buildings. Results of the inspection must then be compiled in a Management Plan to instruct building occupants, maintenance staff, parents, and any other interested parties how to safely and effectively manage any asbestos identified during the inspection.

Following the initial inspection, the LEA is required to conduct reinspections at least once every three years. Spotts, Stevens, and McCoy conducted the initial inspection for most of the schools in Harford County. The first reinspection was performed in 1992 by I-TEM, Ltd. The next reinspections were performed in 1995 by Testwell Craig Testing Laboratories, Inc. and in 1998 by Brook Environmental and Engineering Corporation. This year's reinspection will be conducted by Jenkins Environmental Inc.

The reinspections involve visual inspection, collecting samples of some building materials for analysis, and updating management plans. Any samples taken will be small and the sample locations will be patched. The on site work will require several days at each building. Activities connected with the reinspections will require contractor personnel to work in the school building during regular school hours and some evening hours. Scheduling will require cooperation between the school, contractor, and Facilities Department personnel.

Site work will begin around December 19, 2001 and will continue through early next year. You will receive the school's copy of the reinspection report as it becomes available. Each site will be notified as the details in scheduling are finalized. Please inform building occupants of the upcoming activities. Please call me at ext. 4088 if you have any questions.

pc: Patti Jo Beard
Jeffrey C. Ayers

HARFORD COUNTY PUBLIC SCHOOLS

AHERA Three (3) Year Re-inspection Form
AHERA Management Plan Update

SUMMARY FORM

This form is to be included in the record keeping section of the LEA-designee copy of each school's Management Plan. A copy of this form should also be kept in the corresponding school's copy of the Management Plan.

1. **Facility:** Havre De Grace Middle School

2. **Address:** 7401 Lewis Lane Havre De Grace, MD 21078-3089

3. **Date:** January 4, 2002 **Jenkins Environmental Inc. 410-663-8200**

4. **EPA Accred. Insp.:** Larry D. Jenkins / Thomas LaFond (print) **Signature:** (sign)

5. **Accreditation Number:** 054759 / 057882 **State:** MD / MD **Date of Expiration:** May 17, 2002 / December 19, 2002

SECTION 1.0 PREVIOUS INSPECTION REPORT EVALUATION

TABLE 1.01
PREVIOUSLY IDENTIFIED AND/OR ASSUMED ACM
(All materials are assigned "reference numbers" per Table 3.01 ACM ABATEMENT COST ESTIMATE FORM)

Ref. No.	Material Description	Location	Quantity
12	mudded pipe fittings	throughout	425

AHERA Three (3) Year Re-inspection Form
AHERA Management Plan Update

Havre De Grace M.S.
(Facility)

SUMMARY FORM

This form is to be included in the record keeping section of the LEA-designee copy of each school's Management Plan. A copy of this form should also be kept in the corresponding school's copy of the Management Plan.

TABLE 1.02
CHANGES IN MATERIAL CONDITION

Ref. No.	Material Description	Location	Quantity	Comments
12	mudded pipe fitting	can room off kitchen	4	abated 11/2000

ADDITIONAL COMMENTS/ABATEMENT PROJECTS:

- Ref. 12 - abated (4) mudded pipe fittings

AHERA Three (3) Year Re-inspection Form
AHERA Management Plan Update

Havre De Grace M.S.
(Facility)

SUMMARY FORM

This form is to be included in the record keeping section of the LEA-designee copy of each school's Management Plan. A copy of this form should also be kept in the corresponding school's copy of the Management Plan.

SECTION 2.0 CURRENT CONDITIONS REPORT

TABLE 2.01
NEWLY IDENTIFIED/SAMPLED ACM MATERIALS
(Only samples testing positive for asbestos content are reported in Table 2.01)

Ref. No.	Sample No.[1]	Material Description	Location	Quantity
8	HDGHS 1	9" tan floor tile	storage room by room 28	150 SF
9	HDGHS 2	9" tan floor tile mastic	storage room by room 34	150 SF

1. Chain-of-Custody forms and Certificates of Analysis are attached.

ADDITIONAL COMMENTS:

- bulk samples were taken of 9" tan floor tile, nothing in management plan but positive for floor tile and floor tile mastic

Insufficient sampling of 9"×9" and mastic. assume all 9×9 is pos. & mastic is positive?

AHERA Three (3) Year Re-inspection Form
AHERA Management Plan Update

Havre De Grace M.S.
(Facility)

SUMMARY FORM

This form is to be included in the record keeping section of the LEA-designee copy of each school's Management Plan. A copy of this form should also be kept in the corresponding school's copy of the Management Plan.

TABLE 2.02
ACM MATERIALS REMAINING IN BUILDING

Ref. No.	Material Description	Location	Quantity	ACM Condition
12	mudded pipe fittings	throughout	421	good
8	9" tan floor tile	storage rooms	150 SF	good
9	9" floor tile mastic	storage rooms	150 SF	good

RECOMMENDED ACTION(S):

Table 3.0 ABATEMENT COST ESTIMATE REPORT

REF #	HOMOGENEOUS MATERIAL DESCRIPTIONS	Class. (1)	Quantity	Cost Estimates
1	Boiler Insulation (SF)	T	0.00	$0.00
2	Breeching Insulation (SF)	T	0.00	$0.00
3	Tank Insulation (SF)	T	0.00	$0.00
4	Duct Insulation (SF)	T	0.00	$0.00
5	Pipe Insulation (LF)	T	0.00	$0.00
6	Converter (SF)	T	0.00	$0.00
7	Sprayed On Insulation (SF)	S	0.00	$0.00
8	9" Floor Tile (SF)	M	150.00	$525.00
9	9" Floor Tile Mastic (SF)	M	150.00	$225.00
10	12" Floor Tile (SF)	M	0.00	$0.00
11	12" Floor Tile Mastic (SF)	M	0.00	$0.00
12	Mudded Pipe Fittings (ea)	T	421.00	$10,525.00
13	Fire Doors (ea)	M	0.00	$0.00 *
14	Exterior Transite (SF)	M	0.00	$0.00
15	Suspect Asbestos Debris (SF)	T	0.00	$0.00
16	Vibration Collars (LF)	T	0.00	$0.00
17	2 X 4 Drop Ceiling Tile (SF)	M	0.00	$0.00
18	2 X 2 Drop Ceiling Tile (SF)	M	0.00	$0.00
19	Spline Ceiling Tile (SF)	M	0.00	$0.00
20	1' X 1' Glued Ceiling Tile (SF)	M	0.00	$0.00
21	Glue spots (SF)	M	0.00	$0.00
22	Unit Ventilator Insulation (SF)	T	0.00	$0.00
23	Roof Drain Fittings (ea)	M	0.00	$0.00
24	Stagelight Wiring (LF)	M	0.00	$0.00 *
25	Resilient Sheetgood Material (SF)	M	0.00	$0.00
26	Gasket Material (LF)	M	0.00	$0.00 *
27	Asbestos Plaster (SF)	M	0.00	$0.00
28			0.00	$0.00
29			0.00	$0.00
30			0.00	$0.00
31			0.00	$0.00
32			0.00	$0.00
33			0.00	$0.00
34			0.00	$0.00
35			0.00	$0.00
36			0.00	$0.00
37			0.00	$0.00
38			0.00	$0.00
39			0.00	$0.00
		Total Cost of Full ACM Removal From School		
			0.00	$11,275.00

bestos Classification	
M	Miscellanous Materials
T	Thermal System Insulation (TSI)
S	Surfacing Material

* 1.0 = quantity unknown, default value = $1000

School: **Havre De Grace Middle School**
Address: **7401 Lewis Lane**
Havre De Grace, MD 21078-3089
Date of Inspection: **August 14, 1998**

SECTIONS

SECTION 1.0

Brook Environmental & Engineering Corporation Accreditation

Brook Environmental & Engineering Corporation (Brook) accredited personnel performed this re-inspection, collected bulk samples (if necessary), provided the assessments and response action recommendations for Harford County Public Schools

Inspections, Bulk Sampling, and Assessments
- Re-inspections were conducted by: Beth L. Schmuter
- Bulk Samples were collected by: N/A
- Assessments were made by: Beth L. Schmuter

Management Planner

- Recommendations for Response Actions made by: Brian J. Hug

Personnel

Name:	Beth L. Schmuter	Signature: Beth L Schmuter
Title:	Asbestos Inspector	
Accreditation Number/ State:	035521/ Maryland	
Date of Expiration:	August 10,1999	
Name:	Brian J. Hug	Signature:
Title:	Management Planner	
Accreditation Number/ State:	035323/ Maryland	
Date of Expiration:	June 5, 1999	

2.0 HARFORD COUNTY SUMMARY FORM

AHERA Three (3) Year Re-inspection Form
AHERA Management Plan Update

SUMMARY FORM

This form is to be included in the record keeping section of the LEA-designee copy of each school's Management Plan. A copy of this form should also be kept in the corresponding school's copy of the Management Plan.

1. **Facility:** Havre de Grace Middle School

2. **Address:** 7401 Lewis Lane, Havre De Grace MD 21078-3089

3. **Date:** 8/7/98

4. **EPA Accredited Inspector(s):** Beth L. Schmuter

5. **Signature(s):** Beth L Schmuter

6. **Previously Identified and/ or assumed ACM (all materials are assigned "material numbers"):**

(1) Throughout Building- Pipe Fittings on F/G Insulation, approx. 425 each
(2) Auditorium- Stage Light Wire Insulation

7. Changes in Material Condition (by material number): None

1) A previous asbestos survey reported one (1) fitting in the mechanical room in poor condition. Brook Environmental and Engineering Corp. observed all fittings in the mechanical room to be in good condition.

8. Additional Comments/ Abatement Projects:
Several fittings in the mechanical room were replaced with fiberglass. There are a total of seven (7) fittings remaining in the mechanical room which are asbestos containing, in addition to the fittings throughout the school.

8. Newly Identified/ Sampled Materials (All new materials are assigned the next highest available number):
None

10. Remaining ACM in Building (Section 6 minus Section 8, plus section 9 materials):

a. Previously Identified Materials
(1) Throughout Building- Pipe Fittings on F/G Insulation, approx. 425 each(
(2) Auditorium- Stage Light Wire Insulation

b. Newly Identified Materials
None

3.0 BROOK ADDENDUM SUMMARY FORM

AHERA Classification Section

(1)	Pipe Fittings on F/G Insulation	**5** ACBM with potential for damage.
(2)	Stage Light Wire Insulation	**8** Non-Friable Surfacing or Miscellaneous ACM.

Homogenous Area Assessment

(1) Pipe Fittings on F/G Insulation:
Response Action 8: Continue with O&M program and take preventive measures to reduce disturbance.

(2) Stage Light Wire Insulation:
Response Action 8: Continue with O&M program and take preventive measures to reduce disturbance.

Harford County 3 Year Re-inspection, Havre De Grace Middle Sch. September 17, 1998
Brook Project: 98-7-443

This facility, Havre De Grace Middle School contains ACM.

The Facility shall be re-inspected by an AHERA accredited inspector by August of 2001, and every three years thereafter until all materials, known or assumed to be ACM, have been removed.

4.0 HOMOGENOUS AREA ASSESSMENT TABLE

AND

FRIABLE HOMOGENOUS AREA ASSESSMENT LOG

Homogenous Area Assessment Table

School: HAVRE DE GRACE MIDDLE SCHOOL

	Homogenous Area (#), Type of Material	Sampled 1994-95 (Y/N)	Friable 1994-95 (Y/N)	Changes 1998 (Y/N)	Friable 1998 (Y/N)	Sampled 1998 (Y/N)	AHERA Class.	Response Action	Res. Act. #	Schedule (Initial - Completion)
(1)	THROUGHOUT BLDG.- FITTINGS ON F.G. PIPES (T)	N	Y	SOME FITTINGS IN BOILER ROOM WERE REPLACED. SEVEN (7) ACM FITTINGS REMAIN IN BOILER Room	Y	N	5	O+M	8	8/7/98 to REMOVAL
				AND ANOTHER APPROX 420 THROUGHOUT BLDG. ALL FITTINGS OBSERVED IN GOOD CONDITION.						
(2)	Auditorium - STAGE LIGHT WIRE INSULATION (T)	N	N	N	N	N	8	O+M	8	8/7/98 to REMOVAL

Key: **Classifications: Please See Attachment**

Homogenous Area

T - Thermal System Insulation
S - Surfacing Material
M - Miscellaneous

Response Action

RM - Remove
RP - Repair
ECP - Encapsulate
O&M - Operations and Management
ISL - Isolate

Homogenous Area Assessment Table

School: HAVRE DE GRACE - MIDDLE

Homogenous Area (#), Type of Material	Sampled 1994-95 (Y/N)	Friable 1994-95 (Y/N)	Changes 1998 (Y/N)	Friable 1998 (Y/N)	Sampled 1998 (Y/N)	AHERA Class.	Response Action	Res. Act. #	Schedule (Initial - Completion)
(3) AIR HANDLERS — HVAC ISOLATOR VIBRATION CLOTHS (M)	N	N	N	N	N	5	O+M	8	8/7/98 to Removal

Key: **Classifications: Please See Attachment**

Homogenous Area

T - Thermal System Insulation
S - Surfacing Material
M - Miscellaneous

Response Action

RM - Remove
RP - Repair
ECP - Encapsulate
O&M - Operations and Management
ISL - Isolate

FRIABLE HOMOGENEOUS AREA-ASSESSMENT

Name of School HAVRE DE GRACE MIDDLE Date Aug. 7, 1998

Inspector B. SCHMUTER Sample ID _____

Material Type: FITTINGS Location: THROUGHOUT BLDG.

Area: _____ Sq.Ft. _____ Ln.Ft. 4/20 EACH

COMMENTS (OPTIONAL)

SEVERAL FITTINGS WERE REPLACED IN THE BOILER ROOM. THE FITTING PREVIOUSLY REPORTED IN POOR CONDITION HAS BEEN REMOVED. SEVEN (7) ACM FITTINGS REMAIN IN THE BOILER ROOM.

HAZARD ASSESSMENT FACTORS

DAMAGE FACTORS

Physical	Water	Deterioration
Significant____	Extensive_____	Heavy_____
Moderate_____	Moderate_____	Moderate_____
None X	Slight_____	Light_____
	None X	None X

DISTURBANCE FACTORS

Proximity to Repair items	Accessible	Texture	Adjacent Rooms
< 1ft._____	Within reach X	Rough_____	Gymnasium X
1 to 5ft. N/A	Barely_____	Pitted_____	Music Rm. X
Over 5ft.___	Unreachable____	Moderate X	Mech.Rm. X
		Smooth_____	Elevators X

AIR FLOW FACTORS

Barriers	Ventilation	Air Movement	Air Conduits
Permanent____	Yes X	High_____	Air plenum X
Enclosed_____	No_____	Moderate___	Air shaft____
Encapsulated__	If yes, intake__	Low X	Elevator_____
None X	exhaust_____		Shaft_____

5.0 LABORATORY RESULTS

There were no bulk samples taken at the subject facility.

6.0 CERTIFICATIONS

ManTech Environmental Corporation
1901 Research Blvd, Suite 240 • Rockville, MD 20850
Phone: (301) 315-0080 • FAX: (301) 315-8188

This is to certify that

BRIAN J. HUG

has successfully completed an EPA approved course and examination for

AHERA Management Planner—16 Hours

and has completed training for accreditation under TSCA Title II

June 4-5, 1998

Location of Training: Rockville, MD

Certificate Number: 98-06-05-02

Certificate Expires: June 5, 1999

Exam Date: June 5, 1998

Alex Baylor
Instructor: Alex Baylor

Rachel Riley
Course Director: Rachel M. Riley, CET

This Course Meets the Maryland State Training Requirements (ManTech Approval #21-17-10).

A ManTech International Corporation

Printed on recycled paper

ManTech Environmental Corporation
1901 Research Blvd, Suite 240 • Rockville, MD 20850
Phone: (301) 315-0080 • FAX: (301) 315-8188

This is to certify that

KAREN KARKUT

has successfully completed an EPA approved course and examination for

AHERA Building Inspector—24 Hours

and has completed training for accreditation under TSCA Title II

June 1-3, 1998

Location of Training: Rockville, MD

Certificate Number: 98-06-03-03

Certificate Expires: June 3, 1999

Exam Date: June 3, 1998

Instructor: Daniel Bennett, CET

Rachel Riley

Course Director: Rachel M. Riley, CET

This Course Meets the Maryland State Training Requirements (ManTech Approval #21-17-10).

A ManTech International Corporation

Printed on recycled paper

ManTech Environmental Corporation
1901 Research Blvd., Suite 240 • Rockville, MD 20850
Phone: (301) 315-0080 • FAX: (301) 315-8188

This is to certify that

BRIAN J. HUG

has successfully completed an EPA approved course and examination for

AHERA Building Inspector Refresher—4 Hours

and has completed training for accreditation under TSCA Title II

May 27, 1998

Location of Training:	Rockville, MD
Certificate Number:	98-05-27-01
Certificate Expires:	May 27, 1999
Exam Date:	May 27, 1998

Instructor: Daniel Bennett, CET

Course Director: Rachel M. Riley, CET

This Course Meets the Maryland State Training Requirements (ManTech Approval #21-17-10).

A ManTech International Corporation

Printed on recycled paper

ManTech Environmental Corporation
1901 Research Blvd., Suite 240 • Rockville, MD 20850
Phone: (301) 315-0080 • FAX: (301) 315-8188

This is to certify that

BETH SCHMUTER

has successfully completed an EPA approved course and examination for

AHERA Building Inspector Refresher—4 Hours

and has completed training for accreditation under TSCA Title II

August 10, 1998

Location of Training:	Rockville, MD
Certificate Number:	98-08-10-09
Certificate Expires:	August 10, 1999
Exam Date:	August 10, 1998

Instructor: Rachel Riley, CET

Course Director: Rachel M. Riley, CET

This Course Meets the Maryland State Training Requirements (ManTech Approval #21-17-10).

A ManTech International Corporation

Printed on recycled paper

7.0 ATTACHMENTS

(NOTE TO READER: SECTION 7.0 WAS DELIVERED TO THE CLIENT UNDER A SEPARATE COVER.)

Limitations and Exclusions

All the professional opinions presented in this report are based solely on the scope of work conducted and sources referred to in our report. The data presented by Brook in this report was collected and analyzed using generally accepted industry methods and practices at the time the report was generated. This report represents the conditions, locations, and materials that were observed at the time the field work was conducted. No inferences regarding other conditions, locations, or materials, at a later or earlier time may be made based on the contents of the report. Brook's liability and that of its contractors and subcontractors, arising from any services rendered hereunder, shall not exceed the total fee paid by the client to Brook for this project. No other warranty, express or implied is made. The accuracy of this report is limited to the accuracy of the information obtained by Brook. This report was prepared for the sole use of our client. The use of this report by anyone other than our client or Brook is strictly prohibited without the expressed prior written consent of Brook. Portions of this report may not be used independent of the entire report.

MEMORANDUM

TO: All Principals

FROM: Patti Jo Beard

SUBJECT: Reinspections for AHERA Compliance

DATE: July 28, 1995

The Asbestos Hazard Emergency Response Act (AHERA) requires all Local Education Agencies (LEA's) to complete inspections that identify asbestos containing materials (ACM) in all school buildings. Results of the inspection must then be compiled in a management plan to instruct building occupants, maintenance staff, parents, and any interest parties how to safely and effectively manage any asbestos identified during the inspection.

Following the initial inspection, the LEA is required to conduct reinspections at least once every three years. Spotts, Stevens, and McCoy conducted the initial inspection for Harford County Public Schools. In 1992, the first reinspection was completed by i-TEM, Ltd. This year's reinspection will be conducted by Testwell Craig Testing Laboratories, Inc.

The reinspections will involve visual inspection, taking samples of some building materials for analysis and updating current management plans. Any samples taken will be very small and the sample locations will be patched. The actual site work will require a few days at each building. Activities connected with the inspections will require contractor personnel to work in the school during the regular working day and some evening hours. Scheduling will require cooperation between school, contractor and Facilities Department personnel.

Site work will begin the first week of August and continue through the month. All documentation will be done by the first week of October. As the updated documents become available, you will receive the school's copy. Each site will be notified as the details in scheduling are finalized. Please inform building occupants of the upcoming activities. If there any questions, please do not hesitate to contact me.

slb

pc: Roger C. Niles
Jeffrey C. Ayers

LETTER OF ASSURANCE
THREE-YEAR REINSPECTION OF SCHOOL BUILDINGS PURSUANT TO AHERA

RESPONSIBLE GOVERNING AUTHORITY

Name of Responsible Governing Authority **HARFORD COUNTY PUBLIC SCHOOLS**		Telephone Number **(410) 838-7300**
Street Address **2209 CONOWINGO ROAD**		
Town **BEL AIR, MARYLAND 21015**		County **HARFORD**
Name of Asbestos Program Manager **PATTI JO BEARD**	Affiliation	Telephone Number **(410) 638-4204**
2209 CONOWINGO ROAD, BEL AIR, MARYLAND 21015		
Name of Facility **HAVRE DE GRACE MIDDLE SCHOOL**		Telephone Number **(410) 939-6608**
Building Assessed **HAVRE DE GRACE MIDDLE SCHOOL**		Asb. Mgt. Plan Number
Street Address **401 LEWIS LANE**		
Town **HAVRE DE GRACE, MARYLAND 21078-3799**		County **HARFORD**
Date Three-Year Reinspection Occurred **AUG 07, 1995**		

INSPECTORS/ASSESSORS

1	Name: **WILLIAM THAW**	Address: **5429 E. HARDING HIGHWAY** **MAYS LANDING, NJ 08330**	Telephone Number **(609) 625-1700**
	Affiliation: **TESTWELL CRAIG TESTING LABS., INC.**	State of Accrediation/Acc. No. **MD 12979**	Signature W. E. Thaw
2	Name:	Address	Telephone Number
	Affiliation	State of Accreditation/Acc. No.	Signature
3	Name	Address	Telephone Number
	Affiliation	State of Accreditation/Acc. No.	Signature

GENERAL INFORMATION

Name of Facility: **HAVRE DE GRACE MIDDLE SCHOOL**

Building Assessed: **HAVRE DE GRACE MIDDLE SCHOOL**

Building Description:

HAVRE DE GRACE MIDDLE SCHOOL IS A 1 STORY BUILDING CONSTRUCTED IN 1955. ADDITIONS WERE MADE IN 1958, 1971, 1976 AND 1984. NO RENOVATIONS WERE MADE.

Inspection Description:

THE HAVRE DE GRACE MIDDLE SCHOOL WAS INSPECTED ON AUGUST 7, 1995 BY WILLIAM THAW OF TESTWELL CRAIG TESTING LABORATORIES, INC.

PREVIOUSLY DETERMINED ACBM IN BUILDINGS:

FITTING ON F/G LINES 425.

ADDITIONS: STAGE LIGHT WIRING INSULATION, VIBRATION COLLARS ON AIR HANDLERS 16 EACH.

HARFORD COUNTY PUBLIC SCHOOLS

LAB # 72840

HAVRE DE GRACE MIDDLE SCHOOL	
	NO DAMAGE TO REPORT
ALL OTHER PREVIOUSLY DETERMINED & ADDITIONAL ACBM	WAS FOUND TO BE IN GOOD CONDITION AT TIME OF INSPECTION
WILLIAM THAW TECHNICIAN NAME:	W. E. Thaw TECHNICIAN SIGNATURE

CERTIFICATE NUMBER: 12979

THIS IS TO CERTIFY THAT

William E. Thaw

HAS MET THE ATTENDANCE REQUIREMENTS AND SUCCESSFULLY COMPLETED THE EXAM IN THE COURSE ENTITLED

ASBESTOS BUILDING INSPECTOR

EPA APPROVED COURSE UNDER TITLE II RULE

Environmental Training, Inc.
TRAINING PROVIDER

January 30 - February 1, 1995
COURSE DATE

1702 Industrial Highway, Suite 7
ADDRESS

February 1, 1996
EXPIRATION DATE

31-00-01-BI
COURSE APPROVAL NUMBER

William E. Thaw
STUDENT'S SIGNATURE

William Harcourt
COURSE DIRECTOR (NAME AND SIGNATURE)

STATE OF MARYLAND

REG # 007612

NAETI National Asbestos & Environmental Training Institute

AHERA/EPA Accredited
Per 40 CFR Part 763

Certificate of Completion

This is to certify that John J. Gordon S/S #173-28-0758

has successfully completed the course entitled EPA/AHERA/N.Y.State 1/2 Day Management Planner Refresher

on December 2, **19** 94

Examination passed on N/A **19** ____

Expiration date: Dec. 2, 1995

Doris L. Adler
President

Dec. 2, 1994
Date

3321 Doris Avenue, Building B, Ocean, NJ 07712 (908) 531-5571

TO: All Principals

FROM: Patti Jo Waddell

SUBJECT: Reinspection for AHERA Compliance

DATE: March 27, 1992

The Asbestos Hazard Emergency Response Act (AHERA) requires that all Local Education Agencies (LEAs) complete inspections to identify asbestos containing materials (ACM) in all school buildings and prepare management plans to safely and effectively manage any asbestos identified during the inspection. After the initial inspection, the LEA is required to conduct reinspections at least once every three years. Spotts, Stevens and McCoy conducted the initial inspection for Harford County Public Schools. All reinspections for HCPS will be done by i-TEM Limited, an environmental firm.

The reinspections will involve visual inspection, taking samples of some building materials for analysis and updating current management plans. Any samples taken will be very small and the sample locations will be patched. The actual site work will only be a couple days at each school. Activities connected with the inspections may require contractor personnel to work in the school during class hours. However, every effort will be made to schedule work outside normal class hours. Scheduling will require cooperation between school, contractor and Facilities department personnel.

The reinspections will begin the first week of April and continue through June. All documentation will be done by the first week of July. As the updated documents become available, you will receive the school's copy. You will be notified as the details in scheduling are finalized. Please inform staff, students and parents of upcoming activities. An example would be "According to AHERA requirements, all schools were inspected for asbestos in 1989 and a management plan was developed. Reinspections are required once every three years. This will be done during the spring of 1992 in all Harford County Public Schools. This information is provided in compliance with AHERA regulations." If there are any questions, please do not hesitate to contact me.

bm

pc: Roger C. Niles
Joseph M. Devilbiss

AHERA Three (3) Year Reinspection Form
AHERA Management Plan Update

This form is to be included in the Record Keeping section of the LEA- designee copy of each school's Management Plan. A copy of this form should also be kept in the corresponding school's copy of the Management Plan.

FACILITY: Havre de Grace Middle School

ADDRESS: 401 Lewis Lane Havre de Grace, MD 21078-3089

DATE: 5/6/92

EPA ACCRED. INSPECTOR: Lonnie Watson (print) SIGNATURE: Lonnie D. Watson (sign)

PREVIOUSLY IDENTIFIED AND/OR ASSUMED ACM:

Throughout Building
Fittings on F/G lines - 425 EA

CHANGES IN MATERIAL CONDITION:

None - One (1) damaged fitting remains in Boiler Room

ADDITIONAL COMMENTS/ABATEMENT PROJECTS:

None

NEWLY IDENTIFIED/SAMPLED MATERIALS:

None

AHERA Three (3) Year Reinspection Form
AHERA Management Plan Update

FACILITY: Havre de Grace Middle School

ADDRESS: 401 Lewis Lane Havre de Grace, MD 21078-3089

DATE: 5/6/92

REMAINING ACM IN BUILDING:

Throughout Building
Fittings on F/G lines - 425 EA

Fire doors

August 2016 - AHERA 3-Year Re-Inspection Report

Havre De Grace High School
700 Congress Avenue
Havre De Grace, MD 21078

Prepared for:

Harford County Public Schools
102 South Hickory Avenue
Bel Air, MD. 21014

Prepared by:

SSM Group, Inc.
1047 North Park Road
Reading, PA. 19610
SSM Project No. 100368.0001

Management Plan updated by:

William M. Katinowsky
State of Maryland
Inspector/Management Planner
(#130311)

HARFORD COUNTY PUBLIC SCHOOLS

HAVRE DE GRACE HIGH SCHOOL

AHERA 3-YEAR RE-INSPECTION REPORT

AUGUST, 2016

EXECUTIVE SUMMARY

The AHERA 3-Year Re-inspection of the Havre De Grace High School was conducted by Mr. William M. Katinowsky on August 2, 2016. Mr. Katinowsky is an EPA AHERA accredited Building Inspector/Management Planner, who is also licensed in the same capacity by the Maryland Department of the Environment (MDE). The re-inspection was performed in accordance with EPA 40 CFR, Part 763, which is commonly referred to as AHERA.

During the re-inspection, Mr. Katinowsky identified and assessed the condition and quantity of all known ACM, as noted in the previous re-inspection. Locations, quantities and assessment conditions are noted on the Room-by-Room Inventory of ACM included with this report. There were no damaged or significantly damaged materials found during this inspection.

ADDITIONAL MATERIAL(S) ADDED

Transite table tops were assumed during this re-inspection.

MATERIALS ADDED DURING THE 2013 INSPECTION

During the 2013 AHERA 3-year re-inspection cove base and cove base adhesive was added. Most of these materials were replacement materials of original materials and were non-asbestos containing materials. SSM recommends that since these materials were added as assumed to contain asbestos, they continue to be monitored and sampled prior to removal or renovation of the materials. SSM recommends bulk sampling only if these materials will be removed/impacted during future renovations.

BULK SAMPLING

No bulk samples were collected during this re-inspection.

RESPONSE ACTIONS

No known response actions were taken since the previous re-inspection.

CONCLUSION

1'x1' and 9"x9" floor tile and associated mastic, fitting insulation, fire doors, thermal pipe insulation, vibration collars and stage light wire insulation remain in the building. SSM discovered exposed ends on the thermal pipe insulation in the area outside the Cafeteria near the bathrooms. SSM discovered various areas in which the floor tile has slight damage. Also noted was damaged fire doors located in Cafeteria. SSM recommends that you monitor the condition of the materials and repair/ remove as necessary. Continue to handle all ACM and assumed ACM in accordance with your current Operations and Maintenance (O&M) Plan. We also remind you to continue to provide maintenance and custodial staff with annual asbestos awareness training, continue to provide annual notification to building staff, parents and guardians, and to assure that copies of all inspection reports and AHERA documentation are maintained in your central AHERA files (located in the Maintenance Facility) and at each individual school (main office in a location that is easily accessible by office staff).

Section 4-1: Material Summary and Estimated Cost of Removal for the Havre De Grace High School

Material & Location	Type	Quantity	Estimated Cost of Removal
Throughout the Building			
1'x1' Floor Tile and Mastic	M	30,000 S.F.	$120,000
9"x9" Floor Tile and Mastic	M	600 S.F.	$2,400
Fitting Insulation	T	750 Ea.	$19,000
Fire Doors	M	20 Ea.	$200
Gym			
Vibration Collars	M	80 S.F.	$200
Stage			
Light Wire Insulation	M	220 L.F.	$500
Rooms 156, 159, 160, 162, 167, 227 and 403			
Thermal Pipe Insulation	T	540 L.F.	$13,500
228, 230, 232 and 234			
Transite Table Tops*	M	320 S.F.	$2,000

*= Assumed to be ACM
T= Thermal ACM
M- Miscellaneous ACM
L.F.= Linear Feet
S.F.= Square Feet

Revised 8/1/2016 per findings of
AHERA 3-Year Re-inspection

Section 6-1: Recommended Minimum Response Actions for the Havre De Grace High School

Material & Location	Quantity	Response Action
Throughout the Building		
1'x1' Floor Tile and Mastic	30,000 S.F.	Handle Under the O&M Program
9"x9" Floor Tile and Mastic	600 S.F.	Handle Under the O&M Program
Fitting Insulation	750 Ea.	Handle Under the O&M Program
Fire Doors	20 Ea.	Handle Under the O&M Program
Gym		
Vibration Collars	80 S.F.	Handle Under the O&M Program
Stage		
Light Wire Insulation	220 L.F.	Handle Under the O&M Program
Rooms 156, 159, 160, 162, 167, 227 and 403		
Thermal Pipe Insulation	540 L.F.	Handle Under the O&M Program
228, 230, 232 and 234		
Transite Table Tops*	320 S.F.	Handle Under the O&M Program

*= Assumed to be ACM
L.F.= Linear Feet
S.F.= Square Feet

Algorithm Values

ALGORITHM VALUES - SHORT FORM

Damaged Condition (DC)	-	0	Intact, Encapsulated
		1	Intact, Minor Water Stain
		2	Intact, Cover Poor, Moderate Stain, No Damage
		3	Minor Damage, Scrapes, etc., Duct Tape Repair
		5	Damage, Fix with Patch, Repair and Encapsulate
		7	Significant Damage, Some Removal Needed
		10	Very Significant Damage, Removal Mandated
Exposure Factor (E)	-	0	Inaccessible or Non-friable
		1	Very Limited Access
		2	Maintenance Area Like Boiler Room or Above 2x4's
		3	Public Area, 10 Feet and Higher
		4	Public Area, 10 Feet and Lower
Activity Level (AT)	-	0	Behind Walls, Locked Closet, etc.
		1	Low or Medium Usage (1-3 Persons, 8 Hr/Day)
		2	#1 with Vibration or Public Area
		4	High Activity (Gym, Loading Dock) and/or High Vibration
Air Flow Factor (AF)	-	0	No Impingement, Little or No Air Flow
		1	Low Air Flow or Air Velocity, No Impingement
		2	Air Stains, Moderate Velocity, Piston Effect
		4	High Air Velocity, Air Erosion
Potential Damage (PD)	-	0	No ACM
		1	ACM, No Potential Damage
		2	Possible Potential Damage
		3	Potential Damage Expected
		4	Possible Significant Potential Damage
		5	Significant Potential Damage Expected
Friability (F)	-	1	Non-Friable, Behind Walls, etc.
		2	Encapsulated, Ceiling Tile, Hard Surface
		3	Friable - Standard ACM and Fittings
		5	Highly Friable - Delaminating, "Fluffy" Fireproofing
Percent Asbestos (PA)	-	0 = No ACM	
		1 = >1% but <25% - Chrysotile Only	
		2 = 25% to 80% - Chrysotile Only	
		3 = >80% - or any percentage of amosite, crocidolite, anthophyllite, tremolite or actinolite	
Linear Feet (L)	-	Refers to quantity of ACM	
Square Feet (S)		L	Linear Feet
		S	Square Feet

Accreditations

Asbestos License

MDE

William Katinowski
Name

Signature

Inspector/Management Planner Review
Course Title

Course Date: 12/03/2015
Exp Date: 12/03/2016
Exam Date: 01/07/2016

STATE OF MARYLAND

15024901

Allsafe Environmental
Training Provider

375 Kriswell Dr
Address

Boiling Springs,PA 17007
City, State, Zip

717-258-4109
Phone

MDE

Lorraine Anderson
Name of Training Director

For additional information, call MDE (410) 537-3200

Form A: AHERA Three (3) Year (2013) Reinspection Data Summary

1	**Harford County Public Schools**		
		LEA Point of Contact:	Cynthia Yost, Environmental Compliance Coordinator
		Facility Number and Name:	
2		**Facility Address:**	Havre De Grace High School
			700 Congress Avenue, Havre De Grace, MD 21078-3089
3		**Date of Inspection**	8/14/2010
4		**EPA Accredited Inspector(s)**	Edward Clarke MD # 120333
		Management Planner(s)	Joseph Williamson MD # 121323
5	**5A**	**Information provided by HCPS to Meemsco for Review:**	
			Abatement records provided by HCPS are attached
	5B	**Comments and Issues:**	The vibration collar in the Gym is still present and black tar paper found in the room.
			All ACM in Room 540, 528 were removed including all fire doors that were identified throughout.
			Covebase and covebase adhesive glue were found throughout the building.

Form A: Homogeneous Area Assessment and Response Action Form

6	Previously Tested Materials with no asbestos detected (NAD)					
Homogeneous Material Description		Location(s)	Sampling Information			
			Samples Adequate?	Samples Collected for HA		
HA ID: M001	Type: Misc.					
HA ID: M002	Type: Misc.					
HA ID: M004	Type Misc.					

Form A: Homogeneous Area Assessment and Response Action Form

7	**Description of Asbestos Removal Projects during the last three years, including dates and location of work.**
X	

April 15, 2011, asbestos containing glue and mastic were removed from the Media Center and Library. Full containment was utilized.
From June 17, through July 29, 2011 asbestos containing mudded fittings, floor tile, gaskets, caulks and stage light wiring from the hallways Gym and the stage. Full containment and glovebag techniques were utilized.

Form A: Homogeneous Area Assessment and Response Action Form

8	**New suspect ACBM identified during 2013 Re-inspection**					
	Homogeneous Material Description	Location(s)	Sampling Information			
			ACM?	Samples Collected for HA		
	HA ID: M007 Type: **Misc.** Detail: 2 x 4 White ceiling tiles	Throughout	A			
	HA ID: M008 Type: **Misc.** Detail: 12 x 12 Floor Tiles (Various Colors)	Throughout	A			
	HA ID: M010 Type: **Misc.** Detail: Mastic under flooring material	Throughout	A			
	HA ID: M011 Type: **Misc.** Detail: Ceramic Tile & Ceramic tile grout	Throughout	A			

Form A: Homogeneous Area Assessment and Response Action Form

8	**New suspect ACBM identified during 2013 Reinspection**					
Homogeneous Material Description		Location(s)	Sampling Information			
			ACM?	Samples Collected for HA		
HA ID: **M012**	Type: **Misc.**	Throughout	A			
Detail: Cove Base & Cove Base Adhesive						
HA ID: **M006**	Type: **Misc.**	Throughout	A			
Detail: Fire Doors						
HA ID: **M013**	Type; **Misc.**	Throughout	A			
Detail: Drywall and Joint Compound						

Form A: Homogeneous Area Assessment and Response Action Form

9 Assessment of Friable and Non-friable Assumed Positive or Tested Positive Materials

Homogeneous Material Description	Location(s)	ACM	Friable?	Assessment and Response Action			
				AHERA Assessment Category		Management Planner's recommended Response Action	
				Prior	Current	Action	Notes/Comments
HA ID: M003 Type: **Misc.** Detail Flooring Materials	Throughout	**A**	**NF**	**5**	**5**	**O & M**	
HA ID: M005 Type: **Misc.** Detail Ceiling tiles	Throughout	**Y**	**F**	**7**	**7**	**AR**	IT appears that the ceiling tiles on the second floor that were tested positive in 2009 may still be present.
HA ID: M006 Type: **Misc.** Detail: Fire Doors	Throughout	**A**	**NF**	**5**	**5**	**O & M**	
HA ID: M008 Type: **Misc** 12 x 12 Floor Tiles (Various Colors)	Throughout	A	NF	5	5	**O & M**	

Key to Abbreviations:	
Type:	TSI= Thermal Systems Insulation, Surf.= Surfacing Material, Misc.= Miscellaneous Material
ACM:	A= Assumed, Y= Determined to be asbestos through sampling.
Friable	F= Friable, NF= Non-friable.
AHERA Assessment Category:	**1)**= Damaged or significantly damaged TSI ACBM, **2)**= Damaged friable surfacing ACBM, **3)**= Significantly damaged friable surfacing ACBM **4)**= Damaged or significantly damaged friable miscellaneous ACBM, **5)**= ACBM with potential for damage, **6)**= ACBM with potential for significant damage **7)**= Any remaining friable ACBM or friable suspected ACBM. **(8)**= Not applicable (non friable surfacing or miscellaneous material).
Response Action:	O&M= Continue surveillance and Operations and Maintenance, AR= Abatement Required as soon as possible.

Form A: Homogeneous Area Assessment and Response Action Form

9 Assessment of Friable and Non-friable Assumed Positive or Tested Positive Materials

Homogeneous Material Description	Location(s)	ACM	Friable?	Assessment and Response Action			
				AHERA Assessment Category		Management Planner's recommended Response Action	
				Prior	Current	Action	Notes/Comments
HA ID: M010 Type: **Misc.** Detail Mastic under flooring material	Throughout	**A**	**NF**	**5**	**5**	**O & M**	
HA ID: M011 Type: **Misc.** Detail Ceramic tiles & grout	Throughout	**A**	**NF**	**N/A**	**5**	**O & M**	**Grout is friable**
HA ID: M006 Type: **Misc.** Detail: Fire Doors	Throughout	**A**	**NF**	**5**	**5**	**O & M**	
HA ID: M012 Type: **Misc.** Detail: Covebase & Covebase adhesive	Throughout	A	NF	5	5	O & M	

Key to Abbreviations:

Type:	TSI= Thermal Systems Insulation, Surf.= Surfacing Material, Misc.= Miscellaneous Material
ACM:	A= Assumed, Y= Determined to be asbestos through sampling.
Friable	F= Friable, NF= Non-friable.
AHERA Assessment Category:	**1)**= Damaged or significantly damaged TSI ACBM, **2)**= Damaged friable surfacing ACBM, **3)**= Significantly damaged friable surfacing ACBM **4)**= Damaged or significantly damaged friable miscellaneous ACBM, **5)**= ACBM with potential for damage, **6)**= ACBM with potential for significant damage **7)**= Any remaining friable ACBM or friable suspected ACBM. **(8)**= Not applicable (non friable surfacing or miscellaneous material).
Response Action:	O&M= Continue surveillance and Operations and Maintenance, AR= Abatement Required as soon as possible.

ACCREDITION INFORMATION

LEA DESIGNATED PPERSON:

Address: 102 Hickory Drive

Bel Air, Maryland 21201

Telephone: (410) 638-4088

Typed Name: Cynthia Yost

Training course (s): AHERA Inspector, Management Planner, Asbestos Supervisor

See attached training certifications.

Date(s): _____ Total Hrs: _____

Agency: _____

INSPECTIONS, BULK SAMPLAING, AND ASSESSMENTS

Inspections were conducted by: Edward Clarke Date: June 1, thru November 30, 2013

Bulk samples were collected by: Date:

Assessments were collected by: Edward Clarke Date: 09/27/13

Signature _____

Name: Edward Clarke

Accreditation photo ID No: 120333

State and Date: Maryland, 11/28/13

Signature _____

Name _____

Accreditation/photo ID No _____

State and Date: _____

MANAGEMENT PLANNER:

Management plan prepared by:

Signature: Joseph Williamson

Name: Joseph Williamson

Accreditation/photo ID No: 121323

State and Date: Maryland, 03/01/14

Recommendation(s) for Response Actions made by:

signature: Joseph Williamson

Name: Joseph Williamson

Accreditation/photo ID No: 121323

State and Date: Maryland, 03/01/14

CARDNO ATC

9231 RUMSEY ROAD COLUMBIA, MD 21045 (410) 381-0232

CERTIFICATE OF ACHIEVEMENT

AWARDED TO

EDWARD CLARKE

IN RECOGNITION OF SUCCESSFUL COMPLETION OF THE COURSE

ASBESTOS INSPECTOR REVIEW

A 4-HOUR ANNUAL REVIEW PROGRAM OF STUDY PRESENTED IN ACCORDANCE WITH THE PROVISIONS OF THE U.S. ENVIRONMENTAL PROTECTION AGENCY MODEL ACCREDITATION PLAN, 40 CFR PART 763, APPENDIX C TO SUBPART E, FOR ACCREDITATION UNDER TSCA TITLE II.

PRESENTED BY

Cardno ATC

120333		
CERTIFICATE #		COURSE DIRECTOR CLAYTON E. MILLER
November 28, 2012	November 28, 2012	November 28, 2013
COURSE DATE	EXAMINATION DATE	EXPIRATION DATE

CARDNO ATC

9231 RUMSEY ROAD COLUMBIA, MD 21045 (410) 381-0232

CERTIFICATE OF ACHIEVEMENT

AWARDED TO

JOSEPH WILLIAMSON

IN RECOGNITION OF SUCCESSFUL COMPLETION OF THE COURSE

ASBESTOS MANAGEMENT PLANNER

A 16-HOUR PROGRAM OF STUDY PRESENTED IN ACCORDANCE WITH THE PROVISIONS OF THE U.S. ENVIRONMENTAL PROTECTION AGENCY MODEL ACCREDITATION PLAN, 40 CFR PART 763, APPENDIX C TO SUBPART E, FOR ACCREDITATION UNDER TSCA TITLE II.

PRESENTED BY

121323		Clayton E. Miller
CERTIFICATE #	Cardno ATC	COURSE DIRECTOR

February 28-March 1, 2013	March 1, 2013	March 1, 2014
COURSE DATES	EXAMINATION DATE	EXPIRATION DATE

Contents

MEEMSCO Environmental Services, LLC

CLIENTS'SATISFACTION-A MUST

110-J Warwickshire Ln. Glen Burnie, MD 21061 Phone (443) 597-7951 FAX (410) 589-6131

Mrs. Cyhthia Yost
Environmental Compliance Coordinator
Facilities Management Department
Harford County Public Schools
102 South Hickory Avenue
Bel Air Maryland, 21014

Subject: AHERA 3-Year Re-Inspection Report
Project #13-JHC-013

Dear Mrs. Yost,

MEEMSCO Environmental Services is pleased to provide this report documenting the 3-year re-inspection of friable and non-friable known or assumed asbestos containing building materials (ACMB) we performed from July through November 2013.

The Inspectors 1) conducted a visual re-inspection and reassessment of friable known or assumed ACMB, 2) visually inspected the condition of previously considered non-friable ACMB touched the Material to evaluate whether it had become friable since the last re-inspection, 3) identified homogeneous areas with material that had become friable since the last re-inspection, 4) collected and submitted for analysis of bulk samples of newly friable material that had been assumed to contain ACMB samples collected, and 5) assessed the condition of the newly friable materials in area where samples were collected and of materials assumed to be ACMB.

The following forms and tables list the materials we inspected. If friable materials were observed, an assessment form was completed.

The inspection, bulk samples (if collected) and assessments were completed by the undersigned inspector. The management planner reviewed the inspector's findings and recommended the noted response actions

MEEMSCO reviewed and relied on the previous re-inspection report provided by the client report which is attached, listing material previously identified along with newly identified materials. All were reinspected and assessed. Our recommended response actions are included on the attached forms.

Inaccessible Areas

MEEMSCO attempted to inspect and access all materials previously identified or assumed to be ACMB. No inferences/conclusions/assessments assumption can be made about the condition of ACMB that may exist in wall chases.

Limitations and Exclusions

All professional opinions presented in this report are based solely on the scope of work conducted and sources referred to in our report. The data presented by MEEMSCO in this report was collected and analyzed using generally accepted industry principles and practices at the time the report was generated.

This report represents the conditions, locations, and materials that were observed at the time the field work was conducted. No inferences regarding other conditions, locations, or materials, at a later or earlier time may be made based on the contents of the report, MEEMSCO's liability and that of its contractors and subcontractors arising from any services rendered hereunder, shall not exceed ten (10) percent of the total fee paid by the client to MEEMSCO for this school's three year re-inspection project. No other warranty expressed or implied is made. The accuracy of this report is limited to the accuracy of the information obtained by MEEMSCO from the Harford County Public Schools System.

This report was prepared for the sole use of our client. The use of this report by anyone other than our client or MEEMSCO is strictly prohibited without the expressed prior written consent of MEEMSCO. Portions of this report may not be used independent of the entire report..

If you have any questions regarding this report, please do not hesitate to contact us.

Sincerely,
MEEMSCO Environmental Services

Edward Clarke, President/CEO

AHERA Three (3) Year Reinspection - 2010
Asbestos Management Plan Update
SUMMARY SHEET

FACILITY: Havre De Grace High
ADDRESS: 700 Congress Avenue, Havre De Grace, Maryland 21078-3089
DATE: 7/8/2010
EPA ACCREDITED INSPECTOR/ACCREDITATION NO.: Charles McEleney MD # 106225

SIGNATURE:
EPA MANAGEMENT PLANNER/ACCREDITATION NO.: Charles McEleney MD # 106225

SIGNATURE:

PREVIOUSLY IDENTIFIED OR ASSUMED ACM:

Throughout (including gym) -
- 12"x12" floor tile and mastic - 30,000 sf
- 9"x9" floor tile and mastic - 600 sf
- mudded pipe fittings - 750
- fire doors - 20

Gym -
- vibration collars - 80 sf
- pipe insulation - 130 lf

Rooms 156, 159, 160, 162, 167, 227 and 403 -
- layered paper pipe insulation - 542 lf

Stage -
- stage light wiring - 212 lf

CHANGES IN MATERIAL CONDITION:

ADDITIONAL COMMENTS/ABATEMENT PROJECTS:

Small scale asbestos removal includes abatement of window caulk from Boys Locker Room windows in 2009.

Previous sampling indicates that pipe insulation in 227 is not asbestos-containing. This area will be removed from the asbestos inventory.

Floor tile removed in CR's 140 & 143, 136 & 159.

NEWLY IDENTIFIED/SAMPLED MATERIALS:

AHERA Three (3) Year Reinspection - 2010
Asbestos Management Plan Update
SUMMARY SHEET

FACILITY: Havre De Grace High
ADDRESS: 700 Congress Avenue, Havre De Grace, Maryland 21078-3089
DATE: 7/8/2010

REMAINING ACM IN BUILDING:

Throughout (including gym) -
- 12"x12" floor tile and mastic - 30,000 sf
- 9"x9" floor tile and mastic - 600 sf
- mudded pipe fittings - 750
- fire doors - 20

Gym -
- vibration collars - 80 sf
- pipe insulation - 130 lf

Rooms 156, 159, 160, 167 and 403 -
- pipe insulation - 542 lf

Stage -
- stage light wiring - 212 lf

Science Rooms -
- Lab table tops - 1000 sf

mud pipe fittings - good condition
pipe insulation - good condition
vibration collars - good condition
9"x9" floor tile - good condition
9"x9" floor tile mastic - good condition
12"x12" floor tile - good condition
12"x12" floor tile mastic - good condition
stage light wiring - good condition
fire doors - good condition

Mud pipe fittings are present on fiberglass insulated pipes in the gym building as well as above suspended ceiling and inaccessible areas of the main building.

AHERA Three (3) Year Reinspection - 2010
Asbestos Management Plan Update
BULK SAMPLE DOCUMENTATION

FACILITY: Havre De Grace High
ADDRESS: 700 Congress Avenue, Havre De Grace, Maryland 21078-3089
DATE: 7/8/2010
COLLECTED BY: Charles R. McEleney

Sample No.	Friable		Homogeneous Area	Description of Exact Location
	Yes	No		
N/A		N/A	N/A	N/A

AHERA Three (3) Year Reinspection - 2010
Asbestos Management Plan Update
HOMOGENEOUS AREA ASSESSMENT

FACILITY: Havre De Grace High
ADDRESS: 700 Congress Avenue, Havre De Grace, Maryland 21078-3089
DATE: 7/8/2010
INSPECTOR: Charles McEleney
SAMPLE ID: N/A

Material Type: Mud Pipe Fittings Location: throughout
Area: Sq. Ft. _____ Ln. Ft. _____ 750 fittings

COMMENTS (Optional)
Mud pipe fittings on fiberglass insulated piping. Material is accessible in gym and is also found above the susended ceiling and in inaccessible locations (behind walls) in main building. Accessible material appears to be in good condition.

HAZARD ASSESSMENT FACTORS

DAMAGE FACTORS

Physical		Water		Deterioration	
Significant		Extensive		Heavy	
Moderate		Moderate		Moderate	
Light		Slight		Light	X
None	X	None	X	None	

DISTURBANCE FACTORS

Proximity to Repair Items		Accessible		Texture		Adjacent Rooms	
<1 Ft.		Within Reach		Rough		Gymnasium	
1 to 5 Ft.		Barely	X	Pitted		Music Rm.	
Over 5 Ft.	X	Unreachable		Moderate	X	Mech. Rm.	
				Smooth		Elevators	

AIR FLOW FACTORS

Barriers		Ventilation		Air Movement		Air Conduits	
Permanent		Yes		High		Air Plenum	
Encapsulated		None		Moderate		Air Shaft	
None	X	If Yes, Intake		Low		Elevator	
Enclosed		Exhaust				Shaft	

AHERA Three (3) Year Reinspection - 2010
Asbestos Management Plan Update
HOMOGENEOUS AREA ASSESSMENT

FACILITY: Havre De Grace High
ADDRESS: 700 Congress Avenue, Havre De Grace, Maryland 21078-3089
DATE: 7/8/2010
INSPECTOR: Charles McEleney
SAMPLE ID: N/A

Material Type: Pipe Insulation Location: Gym + Rms 156, 159, 160, 162, 167, 403
Area: Sq. Ft. _____ Ln. Ft. 672 _____

COMMENTS (Optional)
Asbestos pipe insulation is in good condition.

HAZARD ASSESSMENT FACTORS

DAMAGE FACTORS

Physical	
Significant	
Moderate	
Light	
None	X

Water	
Extensive	
Moderate	
Slight	
None	X

Deterioration	
Heavy	
Moderate	
Light	X
None	

DISTURBANCE FACTORS

Proximity to Repair Items	
<1 Ft.	
1 to 5 Ft.	
Over 5 Ft.	X

Accessible	
Within Reach	
Barely	X
Unreachable	

Texture	
Rough	
Pitted	
Moderate	X
Smooth	

Adjacent Rooms	
Gymnasium	
Music Rm.	
Mech. Rm.	
Elevators	

AIR FLOW FACTORS

Barriers	
Permanent	
Encapsulated	
None	X
Enclosed	

Ventilation	
Yes	
None	
If Yes, Intake	
Exhaust	

Air Movement	
High	
Moderate	
Low	

Air Conduits	
Air Plenum	
Air Shaft	
Elevator	
Shaft	

AHERA Three (3) Year Reinspection - 2010
Asbestos Management Plan Update
REINSPECTION SUMMARY TABLE

FACILITY: Havre De Grace High
ADDRESS: 700 Congress Avenue, Havre De Grace, Maryland 21078-3089
DATE: 7/8/2010

Homogeneous Area (#), Type of Materials	Sampled 2007 (Y/N)	Friable 2007 (Y/N)	Changes 2010 (Y/N)	Friable 2010 (Y/N)	Sampled 2010 (Y/N)	AHERA Class.	Response Action	Hazard Rank #	Schedule (Initial - Completion)
Pipe Insulation	N	Y	N	Y	N	5	O&M	2	Ongoing
Mud Pipe Fittings	N	Y	N	Y	N	5	O&M	2	Ongoing
Vibration Collars	N	N	N	N	N	N/A	O&M	2	Ongoing
9"x9" Floor Tile and Mastic	N	N	N	N	N	N/A	O&M	1	Ongoing
12"x12" Floor Tile and Mastic	N	N	N	N	N	N/A	O&M	1	Ongoing
Stage Light Wiring	N	N	N	N	N	N/A	O&M	1	Ongoing
Fire Doors	N	N	N	N	N	N/A	O&M	1	Ongoing
Lab Table Tops	Y	N	N	N	N	N/A	O&M	1	Ongoing

KEY:

Homogeneous Area
T - Thermal System Insulation
S - Surfacing Material
M - Miscellaneous

Response Action
RM - Remove
RP - Repair
ECP - Encapsulate
O&M - Operations and Maintenance
ISL - Isolate

AHERA Three (3) Year Reinspection - 2010
Asbestos Management Plan Update
Resource Evaluation

FACILITY: Havre De Grace High
ADDRESS: 700 Congress Avenue, Havre De Grace, Maryland 21078-3089
DATE: 7/8/2010

Costs are projected for removing and for repairing and encapsulating the ACMs assessed during the AHERA Building Re-inspection. The cost estimates are based upon unit cost rates for abatement of various ACMs and are provided for general planning purposes only. Many project-specific factors, including economies of scale, contract and schedule requirements, etc. will affect the actual costs for abatement. The cost estimates provided do not include the cost of replacement of the materials removed or for professional Industrial Hygiene Services, such as project design and air monitoring.

The following pages show response action costs, which are based upon an assessment of the potential health hazard as reflected by the hazard ranking. The hazard ranking system derives from the Hazard Potential Algorithm used by the AHERA Building Inspector to assess the condition of ACM and was approved for use in this reinspection by the Harford County Public Schools AHERA designated person.

Generally, the following Hazard Ranking Values initiate the following actions:

Hazard Ranking	Response Action
6	Schedule for immediate removal.
5	Schedule for immediate action (repair/encapsulation or removal).
4	Monitor. Schedule for near term action.
3	Monitor. Schedule for future removal.
2	Monitor. As long as ACM condition does not change or use of area in which ACM exists does not change, schedule for removal later when monies are available.
1	Monitor. Generally no other action is required unless the building is renovated or demolished.

AHERA Three (3) Year Reinspection - 2010
Asbestos Management Plan Update

Budgetary Costs by Hazard Ranking
Harford County Public Schools

Material	Quantity	Repair/ Encapsulate	Remove
A. Damaged ACM, Hazard Categories 3, 4, 5, 6			
Hazard Category 6 N/A			
Hazard Category 5 N/A			
Hazard Category 4 N/A			
Hazard Category 3 N/A			
B. Undamaged ACM, Hazard Categories 1, 2			
Hazard Category 2			
Mud Pipe Fittings	750	N/A	$2,000
Pipe Insulation	672 lf	N/A	$13,440
Hazard Category 1			
9"x9" floor tile	600 sf	N/A	$2,100
9"x9" floor tile mastic	600 sf	N/A	$900
12"x12" floor tile	30,000 sf	N/A	$ 77,000.00
12"x12" floor tile mastic	30,000 sf	N/A	$45,000
Stage Light Wiring	212 lf	N/A	$ 636.00
Vibration Collars	80 sf	N/A	$ 1,000.00
Fire Doors	20	N/A	$ 6,000.00
Laboratory Table Tops	1000 sf	N/A	$10,000

AEROSOL MONITORING & ANALYSIS, INC.

This is to certify that

CHARLES R. MCELENEY

has met the attendance requirements and successfully completed the course entitled

8-Hr EPA AHERA Insp/Mgmt Planner Refresher

For Accreditation Under TSCA Title II.

2/18/2010	2/18/2010	2/18/2011	ROBERTA SPRATT-RITTER
Course Date	**Exam Date**	**Expiration Date**	**Principal Instructor**

106225	VA106225	E. RUSH BARNETT
Certification No.	**Virginia Certification No.**	**Course Director**

1331 Ashton Road P.O. Box 646 Hanover, MD 21076 P: 410-684-3327 F: 410-684-3724

www.amatraining.com

AHERA Three (3) Year Reinspection - 2007
Asbestos Management Plan Update
SUMMARY SHEET

FACILITY: Havre De Grace High
ADDRESS: 700 Congress Avenue, Havre De Grace, Maryland 21078-3089
DATE: 9/12/2007
EPA ACCREDITED INSPECTOR/ACCREDITATION NO.: Charles McEleney MD # 086055
SIGNATURE:
EPA MANAGEMENT PLANNER/ACCREDITATION NO.: Charles McEleney MD # 086055
SIGNATURE:

PREVIOUSLY IDENTIFIED OR ASSUMED ACM:

Throughout (including gym) -
- 12"x12" floor tile and mastic - 30,000 sf
- 9"x9" floor tile and mastic - 600 sf
- mudded pipe fittings - 750

Gym -
- vibration collars - 80 sf
- pipe insulation - 130 lf

Rooms 156, 159, 160, 162, 167, 227 and 403 -
- layered paper pipe insulation - 542 lf

Stage -
- stage light wiring - 212 lf

CHANGES IN MATERIAL CONDITION:

ADDITIONAL COMMENTS/ABATEMENT PROJECTS:

There have been numerous small scale projects for the removal of asbestos floor tile/mastic and window glazing.

Asbestos pipe insulation was not identified in Rm 162. Room 156 was not accessible to assess pipe insulation.

NEWLY IDENTIFIED/SAMPLED MATERIALS:

Science Lab Table tops in rooms 228, 230, 232, 233 and 234 are asbestos containing based on laboratory analysis of sample from Room 233.

AHERA Three (3) Year Reinspection - 2007
Asbestos Management Plan Update
SUMMARY SHEET

FACILITY: Havre De Grace High
ADDRESS: 700 Congress Avenue, Havre De Grace, Maryland 21078-3089
DATE: 9/12/2007

REMAINING ACM IN BUILDING:

Throughout (including gym) -
- 12"x12" floor tile and mastic - 30,000 sf
- 9"x9" floor tile and mastic - 600 sf
- mudded pipe fittings - 750
- fire doors - 20

Gym -
- vibration collars - 80 sf
- pipe insulation - 130 lf

Rooms 156, 159, 160, 167, 227 and 403 -
- pipe insulation - 542 lf

Stage -
- stage light wiring - 212 lf

Science Rooms -
- Lab table tops - 1000 sf

mud pipe fittings - good condition
pipe insulation - good condition
vibration collars - good condition
9"x9" floor tile - good condition
9"x9" floor tile mastic - good condition
12"x12" floor tile - good condition
12"x12" floor tile mastic - good condition
stage light wiring - good condition
fire doors - good condition

Mud pipe fittings are present on fiberglass insulated pipes in the gym building as well as above suspended ceiling and inaccessible areas of the main building.

AHERA Three (3) Year Reinspection - 2007
Asbestos Management Plan Update
BULK SAMPLE DOCUMENTATION

FACILITY: Havre De Grace High
ADDRESS: 700 Congress Avenue, Havre De Grace, Maryland 21078-3089
DATE: 9/12/2007
COLLECTED BY: Charles R. McEleney

Sample No.	Friable		Homogeneous Area	Description of Exact Location
	Yes	No		
HGH-1-091207		X	Lab Table Top	Room 233

AMA Analytical Services, Inc.

A Specialized Environmental Laboratory

CERTIFICATE OF ANALYSIS

NVLAP 101143-0

Client:	C & R Environmental Associates, Inc.	**Job Name:**	Harford County Public Schools	**Chain Of Custody:**	116386
Address:	1415 Bush Street, 2nd Floor - Suite B	**Job Location:**	Not Provided	**Date Analyzed:**	10/25/2007
	Baltimore, Maryland 21230	**Job Number:**	Not Provided	**Person Submitting:**	Charles McEleney
		P.O. Number:	Not Provided		

Attention: Charles McEleney

Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample #	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Color	Homogeneity	Analyst ID	Comments
0805489	J-1-071307	NAD	--	--	--	--	--	TR	15	TR	--	85	Multi	Layered	PC	
0805490	J-2-071307	NAD	--	--	--	--	--	--	--	--	--	100	Black	Homogeneous	PC	
0805491	FH-1-080307	15	13	2	--	--	--	--	--	--	--	85	Black	Homogeneous	PC	
0805492	FH-2-080307	NAD	--	--	--	--	--	--	--	--	--	100	Black	Homogeneous	PC	
0805493	EH1-090507	NAD	--	--	--	--	--	--	--	--	--	100	Dk Brown	Homogeneous	PC	
0805494	HGH-1-091207	15	13	2	--	--	--	--	--	--	--	85	Black	Homogeneous	PC	
0805495	AN-1-091207	15	13	2	--	--	--	--	--	--	--	85	Black	Homogeneous	PC	
0805496	CMW-1-092107	15	13	2	--	--	--	--	--	--	--	85	Black	Homogeneous	PC	
0805497	BAM-1-101207	NAD	--	--	--	--	--	--	--	--	--	100	Black	Homogeneous	PC	
0805498	BAH-1-101207	15	13	2	--	--	--	--	--	--	--	85	Black	Homogeneous	PC	
0805499	SH-1-101807	NAD	--	--	--	--	--	--	--	--	--	100	Black	Homogeneous	PC	

AMA Analytical Services, Inc.

A Specialized Environmental Laboratory

CERTIFICATE OF ANALYSIS

NVLAP® 101143-0

Client:	C & R Environmental Associates, Inc.	**Job Name:**	Harford County Public Schools	**Chain Of Custody:**	116386
Address:	1415 Bush Street, 2nd Floor - Suite B	**Job Location:**	Not Provided	**Date Analyzed:**	10/25/2007
	Baltimore, Maryland 21230	**Job Number:**	Not Provided	**Person Submitting:**	Charles McEleney
		P.O. Number:	Not Provided		

Attention: Charles McEleney

Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample #	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Color	Homogeneity	Analyst ID	Comments

The following footnotes only apply to those samples which the total asbestos result is flagged with a note number.

1 TEM RECOMMENDATION - Please note, due to resolution limitations with optical microscopy and/or interference from matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos. It is recommended that the additional analytical technique of TEM be used to check for asbestos fibers below the resolution limits of optical microscopy.

2 MATRIX REDUCTION RECOMMENDATION - Please note, due to interference from the matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos which is obscured from view. It is recommended that the additional preparation technique of gravimetric reduction be performed on this sample to minimize the obscuring effects of matrix components, followed by reanalysis by PLM and/or TEM.

Analysis Method - EPA/600/R-93/116 dated July 1993

NAD = "No Asbestos Detected" TR = "Trace equals less than 1% of this component"

Uncertainty: For samples containing asbestos in range of 1-10% the CV is 0.43, 11-35% CV=0.55, >35 CV=0.23

Peerawut Chaikeenee

AHERA Three (3) Year Reinspection - 2007
Asbestos Management Plan Update
HOMOGENEOUS AREA ASSESSMENT

FACILITY: Havre De Grace High
ADDRESS: 700 Congress Avenue, Havre De Grace, Maryland 21078-3089
DATE: 9/12/2007
INSPECTOR: Charles McEleney
SAMPLE ID: N/A

Material Type: Mud Pipe Fittings Location: throughout
Area: Sq. Ft. _____ Ln. Ft. _____ 750 fittings

COMMENTS (Optional)
Mud pipe fittings on fiberglass insulated piping. Material is accessible in gym and is also found above the susended ceiling and in inaccessible locations (behind walls) in main building. Accessible material appears to be in good condition.

HAZARD ASSESSMENT FACTORS

DAMAGE FACTORS

Physical	
Significant	
Moderate	
Light	
None	X

Water	
Extensive	
Moderate	
Slight	
None	X

Deterioration	
Heavy	
Moderate	
Light	X
None	

DISTURBANCE FACTORS

Proximity to Repair Items	
<1 Ft.	
1 to 5 Ft.	
Over 5 Ft.	X

Accessible	
Within Reach	
Barely	X
Unreachable	

Texture	
Rough	
Pitted	
Moderate	X
Smooth	

Adjacent Rooms	
Gymnasium	
Music Rm.	
Mech. Rm.	
Elevators	

AIR FLOW FACTORS

Barriers	
Permanent	
Encapsulated	
None	X
Enclosed	

Ventilation	
Yes	
None	
If Yes, Intake	
Exhaust	

Air Movement	
High	
Moderate	
Low	

Air Conduits	
Air Plenum	
Air Shaft	
Elevator	
Shaft	

AHERA Three (3) Year Reinspection - 2007
Asbestos Management Plan Update
HOMOGENEOUS AREA ASSESSMENT

FACILITY: Havre De Grace High
ADDRESS: 700 Congress Avenue, Havre De Grace, Maryland 21078-3089
DATE: 9/12/2007
INSPECTOR: Charles McEleney
SAMPLE ID: N/A

Material Type: Pipe Insulation Location: Gym + Rms 156, 159, 160, 162, 167, 227, 403

Area: Sq. Ft. _____ Ln. Ft. 672 _____

COMMENTS (Optional)

Suspect asbestos pipe insulation is in good condition. Some very minor deterioration of insulation in Rm 227.

HAZARD ASSESSMENT FACTORS

DAMAGE FACTORS

Physical	
Significant	
Moderate	
Light	
None	X

Water	
Extensive	
Moderate	
Slight	
None	X

Deterioration	
Heavy	
Moderate	
Light	X
None	

DISTURBANCE FACTORS

Proximity to Repair Items	
<1 Ft.	
1 to 5 Ft.	
Over 5 Ft.	X

Accessible	
Within Reach	
Barely	X
Unreachable	

Texture	
Rough	
Pitted	
Moderate	X
Smooth	

Adjacent Rooms	
Gymnasium	
Music Rm.	
Mech. Rm.	
Elevators	

AIR FLOW FACTORS

Barriers	
Permanent	
Encapsulated	
None	X
Enclosed	

Ventilation	
Yes	
None	
If Yes, Intake	
Exhaust	

Air Movement	
High	
Moderate	
Low	

Air Conduits	
Air Plenum	
Air Shaft	
Elevator	
Shaft	

AHERA Three (3) Year Reinspection - 2007
Asbestos Management Plan Update
REINSPECTION SUMMARY TABLE

FACILITY: Havre De Grace High
ADDRESS: 700 Congress Avenue, Havre De Grace, Maryland 21078-3089
DATE: 9/12/2007

Homogeneous Area (#), Type of Materials	Sampled 2004 (Y/N)	Friable 2004 (Y/N)	Changes 2007 (Y/N)	Friable 2007 (Y/N)	Sampled 2007 (Y/N)	AHERA Class.	Response Action	Hazard Rank #	Schedule (Initial - Completion)
Pipe Insulation	N	Y	N	Y	N	5	O&M	2	Ongoing
Mud Pipe Fittings	N	Y	N	Y	N	5	O&M	2	Ongoing
Vibration Collars	N	N	N	N	N	N/A	O&M	2	Ongoing
9"x9" Floor Tile and Mastic	N	N	N	N	N	N/A	O&M	1	Ongoing
12"x12" Floor Tile and Mastic	N	N	N	N	N	N/A	O&M	1	Ongoing
Stage Light Wiring	N	N	N	N	N	N/A	O&M	1	Ongoing
Fire Doors	N	N	N	N	N	N/A	O&M	1	Ongoing
Lab Table Tops	N/A	N/A	N/A	N	N	N/A	O&M	1	Ongoing

KEY:

Homogeneous Area
T - Thermal System Insulation
S - Surfacing Material
M - Miscellaneous

Response Action
RM - Remove
RP - Repair
ECP - Encapsulate
O&M - Operations and Maintenance
ISL - Isolate

AHERA Three (3) Year Reinspection - 2007
Asbestos Management Plan Update
Resource Evaluation

FACILITY: Havre De Grace High
ADDRESS: 700 Congress Avenue, Havre De Grace, Maryland 21078-3089
DATE: 9/12/2007

Costs are projected for removing and for repairing and encapsulating the ACMs assessed during the AHERA Building Re-inspection. The cost estimates are based upon unit cost rates for abatement of various ACMs and are provided for general planning purposes only. Many project-specific factors, including economies of scale, contract and schedule requirements, etc. will affect the actual costs for abatement. The cost estimates provided do not include the cost of replacement of the materials removed or for professional Industrial Hygiene Services, such as project design and air monitoring.

The following pages show response action costs, which are based upon an assessment of the potential health hazard as reflected by the hazard ranking. The hazard ranking system derives from the Hazard Potential Algorithm used by the AHERA Building Inspector to assess the condition of ACM and was approved for use in this reinspection by the Harford County Public Schools AHERA designated person.

Generally, the following Hazard Ranking Values initiate the following actions:

Hazard Ranking	Response Action
6	Schedule for immediate removal.
5	Schedule for immediate action (repair/encapsulation or removal).
4	Monitor. Schedule for near term action.
3	Monitor. Schedule for future removal.
2	Monitor. As long as ACM condition does not change or use of area in which ACM exists does not change, schedule for removal later when monies are available.
1	Monitor. Generally no other action is required unless the building is renovated or demolished.

AHERA Three (3) Year Reinspection - 2007
Asbestos Management Plan Update

Budgetary Costs by Hazard Ranking
Harford County Public Schools

Material	Quantity	Repair/ Encapsulate	Remove
A. Damaged ACM, Hazard Categories 3, 4, 5, 6			
Hazard Category 6 N/A			
Hazard Category 5 N/A			
Hazard Category 4 N/A			
Hazard Category 3 N/A			
B. Undamaged ACM, Hazard Categories 1, 2			
Hazard Category 2			
Mud Pipe Fittings	750	N/A	$2,000
Pipe Insulation	672 lf	N/A	$13,440
Hazard Category 1			
9"x9" floor tile	600 sf	N/A	$2,100
9"x9" floor tile mastic	600 sf	N/A	$900
12"x12" floor tile	30,000 sf	N/A	$ 77,000.00
12"x12" floor tile mastic	30,000 sf	N/A	$45,000
Stage Light Wiring	212 lf	N/A	$ 636.00
Vibration Collars	80 sf	N/A	$ 1,000.00
Fire Doors	20	N/A	$ 6,000.00
Laboratory Table Tops	1000 sf	N/A	$10,000

AEROSOL MONITORING & ANALYSIS, INC.

This is to certify that

CHARLES R. MCELENEY

has met the attendance requirements and successfully completed the course entitled

8-Hr EPA AHERA Insp/Mgmt Planner Refresher

For Accreditation Under TSCA Title II.

10/2/2007	*10/2/2007*	*10/1/2008*	*ROBERTA SPRATT-RITTER*	
Course Date	***Exam Date***	***Expiration Date***	***Principal Instructor***	
92527	*VA92527*		*E. RUSH BARNETT*	
Certification No.	***Virginia Certification No.***		***Course Director***	

1331 Ashton Road *P.O. Box 646* *Hanover, MD 21076* *P: 410-684-3327* *F: 410-684-3724*

www.amatraining.com

MEMORANDUM

2209 Conowingo Road Bel Air MD 21015 410.638.4088 FAX:410.638.4205

To: All Principals

From: Laura M. Paligo
Environmental Compliance Coordinator

Subject: Reinspections for AHERA Compliance

Date: August 23, 2004

The Asbestos Hazard Emergency Response Act (AHERA) requires all Local Education Agencies (LEAs) to complete inspections that identify asbestos containing materials (ACM) in all school buildings. Results of the inspection must then be compiled in a Management Plan to instruct building occupants, maintenance staff, parents, and any other interested parties how to safely and effectively manage any asbestos identified during the inspection.

Following the initial inspection, the LEA is required to conduct reinspections at least once every three years. Spotts, Stevens, and McCoy conducted the initial inspection for most of the schools in Harford County. The first reinspection was performed in 1992 by I-TEM, Ltd. The next reinspections were performed in 1995 by Testwell Craig Testing Laboratories, Inc., 1998 by Brook Environmental and Engineering Corporation, and 2001 by Jenkins Environmental Inc. This year's reinspection will be performed by C & R Environmental, Inc.

The reinspections involve visual inspection, collecting samples of some building materials for analysis, and updating management plans. Any samples taken will be small and the sample locations will be patched. The on site work will require several days at each building. Activities connected with the reinspections will require contractor personnel to work in the school building during regular school hours and some evening hours. Scheduling will require cooperation between the school, contractor, and Facilities Department personnel.

Site work will begin around August 17, 2004. You will receive the school's copy of the reinspection report as it becomes available. Each site will be notified as the details in scheduling are finalized. Please inform building occupants of the upcoming activities. Please call me at ext. 4088 if you have any questions.

pc: Patti Jo Beard

AHERA Three (3) Year Reinspection - 2004
Asbestos Management Plan Update
SUMMARY SHEET

FACILITY: Havre De Grace High
ADDRESS: 700 Congress Avenue, Havre De Grace, Maryland 21078-3089
DATE: 9/28/2004
EPA ACCREDITED INSPECTOR/ACCREDITATION NO.: Charles McEleney MD # 75043
SIGNATURE:
EPA MANAGEMENT PLANNER/ACCREDITATION NO.: Charles McEleney MD # 75043
SIGNATURE:

PREVIOUSLY IDENTIFIED OR ASSUMED ACM:

Throughout (including gym) -
- 12"x12" floor tile and mastic - 30,000 sf
- 9"x9" floor tile and mastic - 600 sf
- mudded pipe fittings - 750

Gym -
- vibration collars - 80 sf
- pipe insulation - 130 lf

Rooms 156, 159, 160, 162, 167, 227 and 403 -
- layered paper pipe insulation - 542 lf

Stage -
- stage light wiring - 212 lf

CHANGES IN MATERIAL CONDITION:

None

ADDITIONAL COMMENTS/ABATEMENT PROJECTS:

NEWLY IDENTIFIED/SAMPLED MATERIALS:

Throughout -
- composite wooden fire doors

AHERA Three (3) Year Reinspection - 2004
Asbestos Management Plan Update
BULK SAMPLE DOCUMENTATION

FACILITY: Havre De Grace High
ADDRESS: 700 Congress Avenue, Havre De Grace, Maryland 21078-3089
DATE: 9/28/2004
COLLECTED BY: NO BULK SAMPLES COLLECTED

Sample No.	Friable		Homogeneous Area	Description of Exact Location
	Yes	No		
N/A	N/A	N/A	N/A	N/A

AHERA Three (3) Year Reinspection - 2004
Asbestos Management Plan Update
HOMOGENEOUS AREA ASSESSMENT

FACILITY: Havre De Grace High
ADDRESS: 700 Congress Avenue, Havre De Grace, Maryland 21078-3089
DATE: 9/28/2004
INSPECTOR: Charles McEleney
SAMPLE ID: N/A

Material Type: Pipe Insulation Location: Gym + Rms 156, 159, 160, 162, 167, 227, 403

Area: Sq. Ft. _____ Ln. Ft. 672 _____

COMMENTS (Optional)

Suspect asbestos pipe insulation is in good condition. Some very minor deterioration of insulation in Rm 227 and 159.

HAZARD ASSESSMENT FACTORS

DAMAGE FACTORS

Physical	
Significant	
Moderate	
Light	
None	X

Water	
Extensive	
Moderate	
Slight	
None	X

Deterioration	
Heavy	
Moderate	
Light	X
None	

DISTURBANCE FACTORS

Proximity to Repair Items	
<1 Ft.	
1 to 5 Ft.	
Over 5 Ft.	X

Accessible	
Within Reach	
Barely	X
Unreachable	

Texture	
Rough	
Pitted	
Moderate	X
Smooth	

Adjacent Rooms	
Gymnasium	
Music Rm.	
Mech. Rm.	
Elevators	

AIR FLOW FACTORS

Barriers	
Permanent	
Encapsulated	
None	X
Enclosed	

Ventilation	
Yes	
None	
If Yes, Intake	
Exhaust	

Air Movement	
High	
Moderate	
Low	

Air Conduits	
Air Plenum	
Air Shaft	
Elevator	
Shaft	

AHERA Three (3) Year Reinspection - 2004
Asbestos Management Plan Update
Resource Evaluation

FACILITY: Havre De Grace High
ADDRESS: 700 Congress Avenue, Havre De Grace, Maryland 21078-3089
DATE: 9/28/2004

Costs are projected for removing and for repairing and encapsulating the ACMs assessed during the AHERA Building Re-inspection. The cost estimates are based upon unit cost rates for abatement of various ACMs and are provided for general planning purposes only. Many project-specific factors, including economies of scale, contract and schedule requirements, etc. will affect the actual costs for abatement. The cost estimates provided do not include the cost of replacement of the materials removed or for professional Industrial Hygiene Services, such as project design and air monitoring.

The following pages show response action costs, which are based upon an assessment of the potential health hazard as reflected by the hazard ranking. The hazard ranking system derives from the Hazard Potential Algorithm used by the AHERA Building Inspector to assess the condition of ACM and was approved for use in this reinspection by the Harford County Public Schools AHERA designated person.

Generally, the following Hazard Ranking Values initiate the following actions:

Hazard Ranking	Response Action
6	Schedule for immediate removal.
5	Schedule for immediate action (repair/encapsulation or removal).
4	Monitor. Schedule for near term action.
3	Monitor. Schedule for future removal.
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1	Monitor. Generally no other action is required unless the building is renovated or demolished.

AEROSOL MONITORING & ANALYSIS, INC.

THIS IS TO CERTIFY THAT

CHARLES R. MCELENEY

HAS MET THE ATTENDANCE REQUIREMENTS AND SUCCESSFULLY COMPLETED
THE COURSE ENTITLED

8-HR EPA AHERA INSP/MGMT PLANNER RECERTIFICATION

For Accreditation Under TSCA Title II.

7/9/2004	7/9/2005	7/9/2004
COURSE DATE	*EXPIRATION DATE*	*EXAM DATE*
E. RUSH BARNETT E. Rush Barnett	MD-074053	
COURSE DIRECTOR	*CERTIFICATE NO.*	

1331 Ashton Road P.O. Box 646 Hanover, MD 21076 410-684-3327 FAX: 410-684-3724

MEMORANDUM

2209 Conowingo Road Bel Air MD 21015 410.638.4088 FAX:410.638.4205

To: All Principals

From: Laura M. Paligo
Environmental Compliance Coordinator

Subject: Reinspections for AHERA Compliance

Date: December 19, 2001

The Asbestos Hazard Emergency Response Act (AHERA) requires all Local Education Agencies (LEAs) to complete inspections that identify asbestos containing materials (ACM) in all school buildings. Results of the inspection must then be compiled in a Management Plan to instruct building occupants, maintenance staff, parents, and any other interested parties how to safely and effectively manage any asbestos identified during the inspection.

Following the initial inspection, the LEA is required to conduct reinspections at least once every three years. Spotts, Stevens, and McCoy conducted the initial inspection for most of the schools in Harford County. The first reinspection was performed in 1992 by I-TEM, Ltd. The next reinspections were performed in 1995 by Testwell Craig Testing Laboratories, Inc. and in 1998 by Brook Environmental and Engineering Corporation. This year's reinspection will be conducted by Jenkins Environmental Inc.

The reinspections involve visual inspection, collecting samples of some building materials for analysis, and updating management plans. Any samples taken will be small and the sample locations will be patched. The on site work will require several days at each building. Activities connected with the reinspections will require contractor personnel to work in the school building during regular school hours and some evening hours. Scheduling will require cooperation between the school, contractor, and Facilities Department personnel.

Site work will begin around December 19, 2001 and will continue through early next year. You will receive the school's copy of the reinspection report as it becomes available. Each site will be notified as the details in scheduling are finalized. Please inform building occupants of the upcoming activities. Please call me at ext. 4088 if you have any questions.

pc: Patti Jo Beard
Jeffrey C. Ayers

HARFORD COUNTY PUBLIC SCHOOLS

AHERA Three (3) Year Re-inspection Form
AHERA Management Plan Update

SUMMARY FORM

This form is to be included in the record keeping section of the LEA-designee copy of each school's Management Plan. A copy of this form should also be kept in the corresponding school's copy of the Management Plan.

1. **Facility:** Havre De Grace High School

2. **Address:** 700 Congress Ave. Havre De Grace, MD 21078-3089

3. **Date:** January 4, 2002

4. **EPA Accred. Insp.:** Larry D. Jenkins
Thomas LaFond
(print)
Signature: 
(sign)

5. **Accreditation Number:** 054759
057882
State: MD
MD
Date of Expiration: May 17, 2002
December 19, 2002

SECTION 1.0 PREVIOUS INSPECTION REPORT EVALUATION

TABLE 1.01
PREVIOUSLY IDENTIFIED AND/OR ASSUMED ACM
(All materials are assigned "reference numbers" per Table 3.01 ACM ABATEMENT COST ESTIMATE FORM)

Ref. No.	Material Description	Location	Quantity
16	vibration collars	gym	80 SF
5	layered pipe insulation	Room 162, 167, 227, 160, 159	150 LF
12	mudded pipe fittings	throughout	750
3	tank insulation	gym	600 SF
8	9" floor tile	throughout	600 SF
9	9" floor tile mastic	throughout	600 SF
10	12" floor tile	throughout	22,000 SF
11	12" floor tile mastic	throughout	30,000 SF
24	stage light wiring	stage	212 LF

AHERA Three (3) Year Re-inspection Form
AHERA Management Plan Update

Havre De Grace H.S.
(Facility)

SUMMARY FORM

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TABLE 1.02
CHANGES IN MATERIAL CONDITION

Ref. No.	Material Description	Location	Quantity	Comments
3	tank insulation	gym	600 SF	abated 1999
16	vibration collars	gym	80 SF	changed from 12 LF
12	mudded pipe fittings	throughout	750	earlier 250 (assumed)
5	pipe insulation	industrial arts	542 SF	changed from 150 LF

ADDITIONAL COMMENTS/ABATEMENT PROJECTS:

- 162 ladie's restroom - no pipe insulation found but noted in earlier report to be present

- tank insulation abated in 1999 - none present

- bulk samples taken of pipe insulation (2) 01, 02 - negative

- bulk samples taken of perforated ceiling material 03 - negative

HARFORD COUNTY PUBLIC SCHOOLS

AHERA Three (3) Year Re-inspection Form
AHERA Management Plan Update

Havre De Grace H.S.
(Facility)

SUMMARY FORM

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SECTION 2.0 CURRENT CONDITIONS REPORT

TABLE 2.01
NEWLY IDENTIFIED/SAMPLED ACM MATERIALS
(Only samples testing positive for asbestos content are reported in Table 2.01)

Ref. No.	Sample No.[1]	Material Description	Location	Quantity
5	01	pipe insulation	room 156 shop (non-ACM)	
5	02	pipe insulation	room 227 (non-ACM)	
27	03	ceiling material	industrial arts (non-ACM)	
5		pipe insulation	gym	130 LF

1. Chain-of-Custody forms and Certificates of Analysis are attached.

ADDITIONAL COMMENTS:

- HDGHS - 01 - bulk taken of damaged pipe insulation in shop storage room (156) (negative)

- HDGHS - 02 - bulk taken of damaged pipe insulation in janitor's closet by room 227 (negative)

- HDGHS - 03 - bulk taken of ceiling material in shop wing corridor (negative)

HARFORD COUNTY PUBLIC SCHOOLS

AHERA Three (3) Year Re-inspection Form
AHERA Management Plan Update

Havre De Grace H.S.
(Facility)

SUMMARY FORM

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TABLE 2.02
ACM MATERIALS REMAINING IN BUILDING

Ref. No.	Material Description	Location	Quantity	ACM Condition
16	vibration collars	gym	80 SF	good
5	pipe insulation	gym	130 LF	good
12	mudded pipe fittings	throughout	750 EA	good
8	9" floor tile	gym	600 SF	good
9	9" floor tile mastic	throughout	600 SF	good
10	12" floor tile	throughout	22,000 SF	good
11	12" floor tile mastic	throughout	30,000 SF	good
24	stage light wiring	stage	212 LF	good
5	pipe insulation	162, 167, 227, 160, 159	542 LF	good

RECOMMENDED ACTION(S):

test Ref # 5 pipe insulation - tested negative in 2002, but tested positive in 1992 . Retest and confirm - Repair as necessary if possible.

Table 3.0 ABATEMENT COST ESTIMATE REPORT

REF #	HOMOGENEOUS MATERIAL DESCRIPTIONS	Class. (1)	Quantity	Cost Estimates
1	Boiler Insulation (SF)	T	0.00	$0.00
2	Breeching Insulation (SF)	T	0.00	$0.00
3	Tank Insulation (SF)	T	0.00	$0.00
4	Duct Insulation (SF)	T	0.00	$0.00
5	Pipe Insulation (LF)	T	672.00	$8,400.00
6	Converter (SF)	T	0.00	$0.00
7	Sprayed On Insulation (SF)	S	0.00	$0.00
8	9" Floor Tile (SF)	M	600.00	$2,100.00
9	9" Floor Tile Mastic (SF)	M	600.00	$900.00
10	12" Floor Tile (SF)	M	22,000.00	$77,000.00
11	12" Floor Tile Mastic (SF)	M	30,000.00	$45,000.00
12	Mudded Pipe Fittings (ea)	T	750.00	$18,750.00
13	Fire Doors (ea)	M	0.00	$0.00 *
14	Exterior Transite (SF)	M	0.00	$0.00
15	Suspect Asbestos Debris (SF)	T	0.00	$0.00
16	Vibration Collars (LF)	T	80.00	$1,600.00
17	2 X 4 Drop Ceiling Tile (SF)	M	0.00	$0.00
18	2 X 2 Drop Ceiling Tile (SF)	M	0.00	$0.00
19	Spline Ceiling Tile (SF)	M	0.00	$0.00
20	1' X 1' Glued Ceiling Tile (SF)	M	0.00	$0.00
21	Glue spots (SF)	M	0.00	$0.00
22	Unit Ventilator Insulation (SF)	T	0.00	$0.00
23	Roof Drain Fittings (ea)	M	0.00	$0.00
24	Stagelight Wiring (LF)	M	212.00	$636.00 *
25	Porticos (SF)	M	0.00	$0.00
26	Gasket Material (LF)	M	0.00	$0.00 *
27	Panel Board Ceiling Material (SF)	M	0.00	$0.00
28			0.00	$0.00
29			0.00	$0.00
30			0.00	$0.00
31			0.00	$0.00
32			0.00	$0.00
33			0.00	$0.00
34			0.00	$0.00
35			0.00	$0.00
36			0.00	$0.00
37			0.00	$0.00
38			0.00	$0.00
39			0.00	$0.00
		Total Cost of Full ACM Removal From School		
			0.00	$154,386.00

bestos Classification	
M	Miscellanous Materials
T	Thermal System Insulation (TSI)
S	Surfacing Material

* 1.0 = quantity unknown, default value = $1000

School: **Havre De Grace High School**
Address: **700 Congress Avenue**
Havre De Grace, MD 21078-3089
Date of Inspection: **August 7, 1998**

SECTIONS

SECTION 1.0

Brook Environmental & Engineering Corporation Accreditation

Brook Environmental & Engineering Corporation (Brook) accredited personnel performed this re-inspection, collected bulk samples (if necessary), provided the assessments and response action recommendations for Harford County Public Schools

Inspections, Bulk Sampling, and Assessments

- Re-inspections were conducted by: Beth L. Schmuter
- Bulk Samples were collected by: N/A
- Assessments were made by: Beth L. Schmuter

Management Planner

- Recommendations for Response Actions made by: Brian J. Hug

Personnel

Name:	Beth L. Schmuter	Signature:
Title:	Asbestos Inspector	
Accreditation Number/ State:	035521/ Maryland	
Date of Expiration:	August 10,1999	
Name:	Brian J. Hug	Signature:
Title:	Management Planner	
Accreditation Number/ State:	035323/ Maryland	
Date of Expiration:	June 5, 1999	

2.0 HARFORD COUNTY SUMMARY FORM

AHERA Three (3) Year Re-inspection Form
AHERA Management Plan Update

SUMMARY FORM

This form is to be included in the record keeping section of the LEA-designee copy of each school's Management Plan. A copy of this form should also be kept in the corresponding school's copy of the Management Plan.

1. Facility: Havre De Grace High School

2. Address: 700 Congress Ave., Havre De Grace, Maryland 21078-3089

3. Date: August 7, 1998

4. EPA Accredited Inspector(s): Beth L. Schmuter

5. Signature(s):

6. Previously Identified and/ or assumed ACM (All materials are assigned "material numbers"):

(1) Gymnasium Bldg.-Boiler Room- Tank Insulation, approx. 600 S.F.
(2) Throughout Bldg.- Pipe fitting on F.G. insul. Pipe, approx. 250 each
(3) Throughout Bldg.-9"x 9" Floor Tile, 600 S.F.
(4) Throughout Bldg.-1'X1' Floor Tile, approx. 22,000 S.F.
(5) Throughout Bldg.- Floor Tile Mastic, approx. 30,000 S.F.
(6) Auditorium- Stage Light Wire Insulation- 212 L.F.

(7) Rooms 159,160,162,167,227, and 403-Fittings on Layered Paper Pipe Insulation-75 EA.
(8) Gymnasium–Flexible connectors
(9) Rooms 159, 160, 162, 167, 227 and 403- Layered Paper Insulation, approx. 150 L.F.
(10)Boiler Gaskets

7. Changes in Material Condition (By material number):
(1) - (9) None
(10) The gasket on the Auditorium Boiler is damaged.

8. Additional Comments/ Abatement Projects:
During the re-inspection, a contractor was prepping the Gymnasium Building boiler room and erecting the decon to remove the 600 S.F. of tank insulation and seven adjacent fittings. The tank insulation is being removed because of leaks in the tank. The Tank insulation appeared to be in good condition. The two (2) pipe fittings reported in bad condition in a previous asbestos inspection were already removed.
In room 159, the pipe fittings and layered pipe insulation were replaced with fiberglass.

9. Newly Identified/ Sampled Materials (All new materials are assigned the next highest available material number):
None

10. Remaining ACM in Building (Section 6 minus Section 7 materials, plus Section 9 materials):

a. Previously Identified Materials:
(1) Gym Bldg.-Boiler Room- Tank Insulation, approx. 600 S.F.
(2) Throughout Bldg.- Pipe fitting on F.G. insul. Pipe, approx. 250 each
(3) Throughout Bldg.-9"x 9" Floor Tile, 600 S.F.
(4) Throughout Bldg.-1'X1' Floor Tile, approx. 22,000 S.F.
(5) Throughout Bldg.- Floor Tile Mastic, approx. 30,000 S.F.
(6) Auditorium- Stage Light Wire Insulation- 212 L.F.
(7) Rooms 160, 162, 167, 227, and 403-Fittings on Layered Paper Pipe Insulation-65 EA.
(8) Gymnasium–Flexible connectors
(9) Rooms 160, 162, 167, 227, and 403- Layered Paper Insulation, approx. 125 L.F. Remains.
(10)Boiler Gaskets

b. Newly Identified Materials
None

3.0 BROOK ADDENDUM SUMMARY FORM

AHERA Classification Section

(1) Tank Insulation	**5** ACBM with potential for damage.
(2) Pipe fitting on F/G Pipe	**5** ACBM with potential for damage.
(3) 9"x 9" Floor Tile	**8** Non-Friable Surfacing or Miscellaneous ACM.
(4) 1'x 1' Floor Tile	**8** Non-Friable Surfacing or Miscellaneous ACM.
(5) Floor Tile Mastic	**8** Non-Friable Surfacing or Miscellaneous ACM.
(6) Stage Light Wire Insulation	**8** Non-Friable Surfacing or Miscellaneous ACM.
(7) Fittings on Layered Paper Insul.	**5** ACBM with potential for damage.
(8) Flexible connectors	**8** Non-Friable Surfacing or Miscellaneous ACM.
(9) Layered Paper Insulation	**5** ACBM with potential for damage.
(10)Boiler Gasket	**8** Non-Friable Surfacing or Miscellaneous ACM.
(11)Auditorium Boiler Interior	**1** Damaged or significantly damaged TSI.
(All other Boiler Interior)	**5** ACBM with potential for damage.

Homogenous Area Assessment

(1) Tank Insulation:
Response Action 8: Continue with O&M program and take preventive measures to reduce disturbance.

(2) Pipe fitting on F.G. Insulated Pipe:
Response Action 8: Continue with O&M program and take preventive measures to reduce disturbance.

(3) 9"x 9" Floor Tile:
Response Action 8: Continue O&M until major renovation or demolition requires removal under the EPA NESHAPs. Or until hazard assessment factors change.

(4) 1'x 1' Floor Tile:
Response Action 8: Continue O&M until major renovation or demolition requires removal under the EPA NESHAPs. Or until hazard assessment factors change.

(5) Floor Tile Mastic:
Response Action 8: Continue with O&M program and take preventive measures to reduce disturbance.

(6) Stage Light Wire Insulation:
Response Action 8: Continue with O&M program and take preventive measures to reduce disturbance.

(7) Fittings on Layered Paper Pipe Insulation:
Response Action 8: Continue with O&M program and take preventive measures to reduce disturbance.

(8) Flexible connectors:
Response Action 8: Continue O&M until major renovation or demolition requires removal under the EPA NESHAPs. Or until hazard assessment factors change.

(9) Layered Paper Insulation:
Response Action 8: Continue with O&M program and take preventive measures to reduce disturbance.

(10)Auditorium Boiler Gasket:
Response Action 5: Continue O&M program and schedule removal when practical and cost effective. (All other Boiler Gasket- **Response Action 8:** Continue O&M until major renovation or demolition requires removal under the EPA NESHAPs. Or until hazard assessment factors change.)

(11) Auditorium Boiler Interior (exposed refractory):
Response Action 5: Repair ACM, Continue with O&M program. (all other Boiler Interior: **Response Action 8:** Continue with O&M program and take preventive measures to reduce disturbance.)

This facility, Havre de Grace High School contains ACM.

The Facility shall be re-inspected by an AHERA accredited inspector by August of 2001, and every three years thereafter until all materials, known or assumed to be ACM, have been removed.

4.0 HOMOGENOUS AREA ASSESSMENT TABLE

AND

FRIABLE HOMOGENOUS AREA ASSESSMENT LOGS

Homogenous Area Assessment Table

School: HAVRE DE GRACE HIGH

Homogenous Area (#), Type of Material	Sampled 1994-95 (Y/N)	Friable 1994-95 (Y/N)	Changes 1998 (Y/N)	Friable 1998 (Y/N)	Sampled 1998 (Y/N)	AHERA Class.	Response Action	Res. Act. #	Schedule (Initial - Completion
(1) BOILER TANK INSULATION GYM BUILDING (T)	N	Y	DURING INSPECTION, CONTRACTOR PREPPING AREA. REMOVING GOOSE OF TANK INSULATION AND 7 FITTINGS. THE 2 FITTINGS REPORTEDLY IN POOR CONDITION WERE REMOVED.	Y	N	5	Otm	8	8/7/98 to REMOVAL
(2) THROUGHOUT BLDG. PIPE FITTINGS ON F.G. INSUL. PIPE (T)	N	Y	N	Y	N	5	Otm	8	8/7/98 to REMOVAL
(3) THROUGHOUT BLDG. 9"x9" FLOOR TILE (M)	N	N	N	N	N	8	Otm	8	8/7/98 TO REMOVAL

Key: **Classifications: Please See Attachment**

Homogenous Area

T - Thermal System Insulation
S - Surfacing Material
M - Miscellaneous

Response Action

RM - Remove
RP - Repair
ECP - Encapsulate
O&M - Operations and Management
ISL - Isolate

(1) CONTRACTOR REMOVING TANK INSULATION BECAUSE THE TANKS ARE LEAKING. THE TANK INSULATION IS IN GOOD CONDITION.

Homogenous Area Assessment Table

School: HAREDE GRACE HIGH

Homogenous Area (#), Type of Material	Sampled 1994-95 (Y/N)	Friable 1994-95 (Y/N)	Changes 1998 (Y/N)	Friable 1998 (Y/N)	Sampled 1998 (Y/N)	AHERA Class.	Response Action	Res. Act. #	Schedule (Initial - Completion
④ THROUGHOUT BLDG, 1'X1' FLOOR TILE (M)	N	N	N	N	N	8	O+M	8	8/7/98 TO REMOVAL
⑤ THROUGHOUT BLDG. FLOOR TILE MASTIC (M)	N	N	N	N	N	8	O+M	8	8/7/98 to REMOVAL
⑥ Auditorium, STAGE LIGHT WIRE INSULATION. (M)	N	N	N	N	N	8	O+M	8	8/7/98 to REMOVAL

Key: **Classifications: Please See Attachment**

Homogenous Area

T - Thermal System Insulation
S - Surfacing Material
M - Miscellaneous

Response Action

RM - Remove
RP - Repair
ECP - Encapsulate
O&M - Operations and Management
ISL - Isolate

Homogenous Area Assessment Table

School: HAVRE DE GRACE HIGH

Homogenous Area (#), Type of Material	Sampled 1994-95 (Y/N)	Friable 1994-95 (Y/N)	Changes 1998 (Y/N)	Friable 1998 (Y/N)	Sampled 1998 (Y/N)	AHERA Class.	Response Action	Res. Act. #	Schedule (Initial - Completion
(7) FITTINGS ON LAYERED PIPE INSULATION, RM. 162, 167, 227, 159, 160	N	Y	RM-159, FITTINGS WERE REPLACED CAN NOT FIND RM 160 OR 403	Y	N	5	O+M	8	8/7/98 to REMOVAL
(8) GYMNASIUM FLEXIBLE CONNECTORS (M)	N	N	N	N	N	8	O+M	8	8/7/98 to REMOVAL
(9) LAYERED PAPER INSULATION, RMS 160, 162, 167, 223, + 159,	N	Y	RM 159, LAYERED PIPE INSULATION WAS REPLACED W/ F.G. CAN NOT FIND ROOM 160.	Y	N	5	O+M	8	8/7/98 to REMOVAL

Key: **Classifications: Please See Attachment**

Homogenous Area

T - Thermal System Insulation
S - Surfacing Material
M - Miscellaneous

Response Action

RM - Remove
RP - Repair
ECP - Encapsulate
O&M - Operations and Management
ISL - Isolate

Homogenous Area Assessment Table

School: HAVRE DE GRACE HIGH

Homogenous Area (#), Type of Material	Sampled 1994-95 (Y/N)	Friable 1994-95 (Y/N)	Changes 1998 (Y/N)	Friable 1998 (Y/N)	Sampled 1998 (Y/N)	AHERA Class.	Response Action	Res. Act. #	Schedule (Initial - Completion
(10) Auditorium - Boiler Gasket (T)	N	Y	Auditorium Boiler Gasket Damaged All other Gasket Fair condition	Y	N	8	Otm	5	8/7/98 to Removal
(11) Boiler Interior Refractory	N	Y	Damaged Exposed Refractory Top Front of Auditorium Boiler.	Y	N	1	Repair, Otm	5	8/7/98 to Removal

Key: **Classifications: Please See Attachment**

Homogenous Area

T - Thermal System Insulation
S - Surfacing Material
M - Miscellaneous

Response Action

RM - Remove
RP - Repair
ECP - Encapsulate
O&M - Operations and Management
ISL - Isolate

FRIABLE HOMOGENEOUS AREA-ASSESSMENT

Name of School HAVRE DE GRACE

Date Aug. 7, 1998

Inspector B. SCHMUTZER

Sample ID 1

Material Type: BOILER TANK INSUL. Location: BOILER ROOM

Area: 600 Sq.Ft. _____ Ln.Ft.

COMMENTS (OPTIONAL)

DURING THE INSPECTION, THE CONTRACTOR (ANI INC, BALTIMORE) WAS PREPPING THE BOILER ROOM TO BEGIN REMOVAL OF THE TANK INSULATION. THE CONTRACTOR REPORTED THAT HE WILL REMOVE ALL THE TANK INSULATION AND SEVEN EXISTING FITTINGS. TWO FITTINGS REPORTED IN POOR CONDITION WERE EASY REMOVED.

HAZARD ASSESSMENT FACTORS

DAMAGE FACTORS

Physical	Water	Deterioration
Significant ____	Extensive ____	Heavy ____
Moderate ____	Moderate ____	Moderate ____
None X	Slight ____	Light ____
	None X	None X

DISTURBANCE FACTORS

Proximity to Repair items	Accessible	Texture	Adjacent Rooms
< 1ft. ____	Within reach X	Rough X	Gymnasium X
1 to 5ft. ____ N/A	Barely ____	Pitted ____	Music Rm. ____
Over 5ft. ____	Unreachable ____	Moderate ____	Mech.Rm. ____
		Smooth ____	Elevators ____

AIR FLOW FACTORS

Barriers	Ventilation	Air Movement	Air Conduits
Permanent ____	Yes X	High ____	Air plenum ____
Enclosed ____	No ____	Moderate ____	Air shaft ____
Encapsulated ____	If yes, intake ____	Low X	Elevator X
None X	exhaust ____		Shaft ____

→ THE TANK INSULATION IS IN GOOD CONDITION. THE TANK IS BEING REPLACED BECAUSE OF LEAKS.

FRIABLE HOMOGENEOUS AREA-ASSESSMENT

Name of School HAVRE DE GRACE

Date Aug 7, 1998

Inspector B. SCHMUTER

Sample ID 2

Material Type: FITTINGS ON F.G. LINES Location: THROUGHOUT BLDG.

Area: _____ Sq.Ft. _____ Ln.Ft. 250 EACH

COMMENTS (OPTIONAL)

HAZARD ASSESSMENT FACTORS

DAMAGE FACTORS

Physical
Significant____
Moderate____
None X

Water
Extensive____
Moderate____
Slight____
None X

Deterioration
Heavy____
Moderate____
Light____
None X

DISTURBANCE FACTORS

Proximity to Repair items
< 1ft.____
1 to 5ft.____ N/A
Over 5ft.____

Accessible
Within reach____
Barely ____
Unreachable X

Texture
Rough____
Pitted____
Moderate X
Smooth____

Adjacent Rooms
Gymnasium____
Music Rm.____
Mech.Rm.____ N/A
Elevators____

AIR FLOW FACTORS

Barriers
Permanent____
Enclosed____
Encapsulated__
None X

Ventilation
Yes X
No____
If yes, intake__
exhaust____

Air Movement
High____
Moderate___
Low X

Air Conduits
Air plenum X
Air shaft____
Elevator X
Shaft____

FRIABLE HOMOGENEOUS AREA-ASSESSMENT

Name of School HAVRE DE GRACE Date Aug. 7, 1998

Inspector B. SCHMUTER Sample ID 7

Material Type: FITTINGS ON LAYERED PIPE INSULATION Location: Room 162, 167, 227, 403

Area: _____ Sq.Ft. _____ Ln.Ft. 50 EACH

COMMENTS (OPTIONAL)

Room 159 - FITTINGS WERE REPLACED. CAN NOT LOCATE Room 403.

HAZARD ASSESSMENT FACTORS

DAMAGE FACTORS

Physical	Water	Deterioration
Significant____	Extensive____	Heavy____
Moderate____	Moderate____	Moderate____
None X	Slight____	Light____
	None X	None X

DISTURBANCE FACTORS

Proximity to Repair items	Accessible	Texture	Adjacent Rooms
< 1ft.____	Within reach____	Rough____	Gymnasium____
1 to 5ft.____ N/A	Barely____	Pitted____	Music Rm.____
Over 5ft.____	Unreachable X	Moderate X	Mech.Rm.____ N/A
		Smooth____	Elevators____

AIR FLOW FACTORS

Barriers	Ventilation	Air Movement	Air Conduits
Permanent____	Yes X	High____	Air plenum____
Enclosed____	No____	Moderate____	Air shaft____
Encapsulated____	If yes, intake____	Low X	Elevator X
None X	exhaust____		Shaft____

FRIABLE HOMOGENEOUS AREA-ASSESSMENT

Name of School HAVRE DE GRACE

Date Aug 7, 1998

Inspector B. SCHMUTER

Sample ID 9

Material Type: LAYERED PIPE INSULATION Location: Rms. 160, 162, 167, 227, 159.

Area: _____ Sq.Ft. 150 Ln.Ft.

COMMENTS (OPTIONAL)

Room 159 LAYERED PIPE INSULATION WAS REPLACED WITH FIBERGLASS, CAN NOT LOCATE Room 160

HAZARD ASSESSMENT FACTORS

DAMAGE FACTORS

Physical	Water	Deterioration
Significant____	Extensive_____	Heavy_____
Moderate_____	Moderate_____	Moderate_____
None X	Slight_____	Light_____
	None X	None X

DISTURBANCE FACTORS

Proximity to Repair items	Accessible	Texture	Adjacent Rooms
< 1ft._____	Within reach___	Rough_____	Gymnasium___
1 to 5ft.___ N/A	Barely _____	Pitted_____	Music Rm.___
Over 5ft.___	Unreachable X	Moderate X	Mech.Rm._____
		Smooth_____	Elevators___

N/A

AIR FLOW FACTORS

Barriers	Ventilation	Air Movement	Air Conduits
Permanent____	Yes X	High_____	Air plenum X
Enclosed_____	No_____	Moderate___	Air shaft____
Encapsulated__	If yes, intake__	Low X	Elevator X
None X	exhaust_____		Shaft_____

5.0 LABORATORY RESULTS

There were no bulk samples taken at the subject facility.

6.0 CERTIFICATIONS

ManTech Environmental Corporation
1901 Research Blvd, Suite 240 • Rockville, MD 20850
Phone: (301) 315-0080 • FAX: (301) 315-8188

This is to certify that

BRIAN J. HUG

has successfully completed an EPA approved course and examination for

AHERA Management Planner—16 Hours

and has completed training for accreditation under TSCA Title II

June 4-5, 1998

Location of Training:	Rockville, MD
Certificate Number:	98-06-05-02
Certificate Expires:	June 5, 1999
Exam Date:	June 5, 1998

Alex Baylor
Instructor: Alex Baylor

Rachel Riley
Course Director: Rachel M. Riley, CET

This Course Meets the Maryland State Training Requirements (ManTech Approval #21-17-10).

A ManTech International Corporation

Printed on recycled paper

ManTech Environmental Corporation
1901 Research Blvd., Suite 240 • Rockville, MD 20850
Phone: (301) 315-0080 • FAX: (301) 315-8188

This is to certify that

BRIAN J. HUG

has successfully completed an EPA approved course and examination for

AHERA Building Inspector Refresher—4 Hours

and has completed training for accreditation under TSCA Title II

May 27, 1998

Location of Training:	Rockville, MD
Certificate Number:	98-05-27-01
Certificate Expires:	May 27, 1999
Exam Date:	May 27, 1998

Instructor: Daniel Bennett, CET

Rachel Riley

Course Director: Rachel M. Riley, CET

This Course Meets the Maryland State Training Requirements (ManTech Approval #21-17-10).

A ManTech International Corporation

Printed on recycled paper

ManTech Environmental Corporation
1901 Research Blvd, Suite 240 • Rockville, MD 20850
Phone: (301) 315-0080 • FAX: (301) 315-8188

This is to certify that

KAREN KARKUT

has successfully completed an EPA approved course and examination for

AHERA Building Inspector—24 Hours

and has completed training for accreditation under TSCA Title II

June 1-3, 1998

Location of Training:	Rockville, MD
Certificate Number:	98-06-03-03
Certificate Expires:	June 3, 1999
Exam Date:	June 3, 1998

Instructor: Daniel Bennett, CET

Course Director: Rachel M. Riley, CET

This Course Meets the Maryland State Training Requirements (ManTech Approval #21-17-10).

A ManTech International Corporation

Printed on recycled paper

ManTech Environmental Corporation
1901 Research Blvd., Suite 240 • Rockville, MD 20850
Phone: (301) 315-0080 • FAX: (301) 315-8188

This is to certify that

BETH SCHMUTER

has successfully completed an EPA approved course and examination for

AHERA Building Inspector Refresher—4 Hours

and has completed training for accreditation under TSCA Title II

August 10, 1998

Location of Training:	Rockville, MD
Certificate Number:	98-08-10-09
Certificate Expires:	August 10, 1999
Exam Date:	August 10, 1998

Instructor: Rachel Riley, CET

Course Director: Rachel M. Riley, CET

This Course Meets the Maryland State Training Requirements (ManTech Approval #21-17-10).

A ManTech International Corporation

Printed on recycled paper

7.0 ATTACHMENTS

(NOTE TO READER: SECTION 7.0 WAS DELIVERED TO THE CLIENT UNDER A SEPARATE COVER.)

Limitations and Exclusions

All the professional opinions presented in this report are based solely on the scope of work conducted and sources referred to in our report. The data presented by Brook in this report was collected and analyzed using generally accepted industry methods and practices at the time the report was generated. This report represents the conditions, locations, and materials that were observed at the time the field work was conducted. No inferences regarding other conditions, locations, or materials, at a later or earlier time may be made based on the contents of the report. Brook's liability and that of its contractors and subcontractors, arising from any services rendered hereunder, shall not exceed the total fee paid by the client to Brook for this project. No other warranty, express or implied is made. The accuracy of this report is limited to the accuracy of the information obtained by Brook. This report was prepared for the sole use of our client. The use of this report by anyone other than our client or Brook is strictly prohibited without the expressed prior written consent of Brook. Portions of this report may not be used independent of the entire report.

EMSL Analytical, Inc.

10766 Rhode Island Ave
Beltsville, MD 20705
Phone: (301) 937-5700 Fax: (301) 937-5701

EMSL

Attn.: William Burris/Jason Jacobs
Brook Environmental & Engineering
1322 Kingsbury Road
Owing Mills, MD 21117

Thursday, September 24, 1998

Ref Number: MD981281

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project: Havre de Grace High - Harford County

SAMPLE	LOCATION	APPEARANCE	SAMPLE TREATMENT	ASBESTOS % TYPE	NONASBESTOS % FIBROUS	% NONFIBROUS
#01	Havre de Grace High	Cream/Rust Fibrous Homogeneous	Teased/Dissolved	95% Chrysotile		5% Other
#02	Havre de Grace High	Cream/Grey Fibrous Homogeneous	Teased/Dissolved	None Detected	20% Glass	80% Other
#03	Havre de Grace High	Grey Fibrous Homogeneous	Teased/Dissolved	None Detected	25% Glass	75% Other

Comments: For all obviously heterogeneous samples easily seperated into subsamples, and for layered samples, each component is analyzed seperately. Also, "# of Layers" refers to number of separable subsamples.

* NY samples also analyzed by ELAP 198-1 Method

George P. Malone Jr.
Analyst

Approved Signatory

Disclaimers: PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. Samples reported as <1% or none detected should be tested with either SEM or TEM. The above test report relates only to the items tested. This report may only be reproduced in part with written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. All "NVLAP" reports with NVLAP logo must contain at least one signature to be valid. Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples.

~~Analysis performed by EMSL Beltsville (NVLAP Air and Bulk #200293, [illegible])~~

1322 KINGSBURY ROAD, OWINGS MILLS, MARYLAND 21117

CHAIN-OF-CUSTODY RECOR

P.O. #:

CLIENT: HAVRE DE GRACE HIGH - HARFORD COUNTY
ADDRESS: 1322 Kingsbury Rd. OM, MD 21117
PHONE: (410)356-4875 FAX: (410)356-5073
CLIENT PROJECT #: HARFORD COUNTY 98-7-433 PROJECT MANAGER: BETH SCHMUTER

DATE: 9/21/98 PAGE ___ OF ___
TEG PROJECT #:
LOCATION:
COLLECTOR: B. SCHMUTER DATE OF COLLECTION:

Sample Number	Depth	Time	Sample Type	Container Type	VOA 601/8010	VOA 602/8020	VOA 624/8240	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 lg & di	PNA 610/8100	PEST/PCBs 8080	HEX CHROME	ORGANIC LEAD	TOTAL LEAD	pH	ASBESTOS	FIELD NOTES	Total Number Of Containers	Laboratory Note Number
HAVRE DE GRACE-HIGH-01			BULK															X		BOILER GASKET ON OUTSIDE OF DOORS	1	
HAVRE DE GRACE-HIGH-02			BULK															X		BOILER GASKET IN BETWEEN DOORS	1	
HAVRE DE GRACE-HIGH-03			BULK															X		BOILER GASKET TOP MIDDLE (BROKEN)	1	

DO NOT DO
STOP ⊕

RELINQUISHED BY: (Signature) DATE/TIME 9/21/98 11:30AM
RECEIVED BY: (Signature) DATE/TIME 9/21/98
RELINQUISHED BY: (Signature) DATE/TIME
RECEIVED BY: (Signature) DATE/TIME

SAMPLE DISPOSAL INSTRUCTIONS
☐ TEG DISPOSAL @ $2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT
TOTAL NUMBER OF CONTAINERS
CHAIN OF CUSTODY SEALS Y/N/NA
SEALS INTACT? Y/N/NA
RECEIVED GOOD COND./COLD
NOTES:

LABORATORY NOTES:
Per Karen
5 day TAT

MEMORANDUM

TO: All Principals

FROM: Patti Jo Beard

SUBJECT: Reinspections for AHERA Compliance

DATE: July 28, 1995

The Asbestos Hazard Emergency Response Act (AHERA) requires all Local Education Agencies (LEA's) to complete inspections that identify asbestos containing materials (ACM) in all school buildings. Results of the inspection must then be compiled in a management plan to instruct building occupants, maintenance staff, parents, and any interest parties how to safely and effectively manage any asbestos identified during the inspection.

Following the initial inspection, the LEA is required to conduct reinspections at least once every three years. Spotts, Stevens, and McCoy conducted the initial inspection for Harford County Public Schools. In 1992, the first reinspection was completed by i-TEM, Ltd. This year's reinspection will be conducted by Testwell Craig Testing Laboratories, Inc.

The reinspections will involve visual inspection, taking samples of some building materials for analysis and updating current management plans. Any samples taken will be very small and the sample locations will be patched. The actual site work will require a few days at each building. Activities connected with the inspections will require contractor personnel to work in the school during the regular working day and some evening hours. Scheduling will require cooperation between school, contractor and Facilities Department personnel.

Site work will begin the first week of August and continue through the month. All documentation will be done by the first week of October. As the updated documents become available, you will receive the school's copy. Each site will be notified as the details in scheduling are finalized. Please inform building occupants of the upcoming activities. If there any questions, please do not hesitate to contact me.

slb

pc: Roger C. Niles
Jeffrey C. Ayers

LETTER OF ASSURANCE
THREE-YEAR REINSPECTION OF SCHOOL BUILDINGS PURSUANT TO AHERA

RESPONSIBLE GOVERNING AUTHORITY

Name of Responsible Governing Authority		Telephone Number
HARFORD COUNTY PUBLIC SCHOOLS		**(410) 838-7300**
Street Address		
2209 CONOWINGO ROAD		
Town		County
BEL AIR, MARYLAND 21015		**HARFORD**
Name of Asbestos Program Manager	Affiliation	Telephone Number
PATTI JO BEARD		**(410) 638-4204**
2209 CONOWINGO ROAD, BEL AIR, MARYLAND 21015		
Name of Facility		Telephone Number
HAVRE DE GRACE HIGH SCHOOL		**(410) 939-6600**
Building Assessed		Asb. Mgt. Plan Number
HAVRE DE GRACE HIGH SCHOOL/MAIN BUILDING AND AUDITORIUM/GYM BUILDING		
Street Address		
700 CONGRESS AVENUE		
Town		County
HAVRE DE GRACE, MARYLAND 21078-3089		**HARFORD**
Date Three-Year Reinspection Occurred		
AUG 08, 1995		

INSPECTORS/ASSESSORS

1	Name: **WILLIAM THAW**	Address: **5429 E. HARDING HIGHWAY MAYS LANDING, NJ 08330**	Telephone Number **(609) 625-1700**
	Affiliation: **TESTWELL CRAIG TESTING LABS.,INC.**	State of Accrediation/Acc. No. **MD 12979**	Signature W.E. Thaw
2	Name:	Address	Telephone Number
	Affiliation	State of Accreditation/Acc. No.	Signature
3	Name	Address	Telephone Number
	Affiliation	State of Accreditation/Acc. No.	Signature

GENERAL INFORMATION

Name of Facility: HAVRE DE GRACE HIGH SCHOOL

Building Assessed: HAVRE DE GRACE HIGH SCHOOL

Building Description:

HAVRE DE GRACE HIGH SCHOOL IS A 3 STORY BUILDING CONSTRUCTED IN 1955. ADDITIONS WERE MADE IN 1958, 1971, 1976 AND 1984. NO RENOVATIONS WERE MADE.

BUILDINGS INCLUDES: AUDITORIUM, 2 GYMNASIUMS & ADDITIONAL CLASSROOMS IN A SEPARATE STRUCTURE ACROSS CONGRESS AVENUE FROM MAIN BUILDING.

Inspection Description:

THE HAVRE DE GRACE HIGH SCHOOL WAS INSPECTED ON AUGUST 8, 1995 BY WILLIAM THAW OF TESTWELL CRAIG TESTING LABORATORIES, INC.

PREVIOUSLY DETERMINED ACBM IN BUILDINGS:

BOILER ROOMS TANK INSULATION 600 SQ FT, FITTINGS ON F/G INSULATED PIPE, AUDITORIUM: STAGE LIGHT WIRING 212 LN FT, VIBRATION COLLARS 4, GYMNASIUM: VIBRATION COLLARS ON AIR HANDLERS 8, GYM/AUDITORIUM: BUILDING FIRE DOORS. THROUGHOUT REMAINDER OF SCHOOL: 9" X 9" VAT 600 SQ FT, 12" X 12" VAT 22,000, ASSOCIATED MASTIC 30,000 SQ FT, FITTINGS ON F/G INSULATED PIPE, LAYERED PIPE INSULATION.

HARFORD COUNTY PUBLIC SCHOOLS

LAB # 72840

HAVRE DE GRACE HIGH SCHOOL

GYM BUILDING BOILER ROOM	FITTING LEFT SIDE OF WATER TANK SEVERLY DAMAGED/FITTING ABOVE BOILER ROOM DOOR IN CORRIDOR DAMAGED
GYM BUILDING CORRIDOR	EXIT NEAR GIRLS DRESSING ROOM 2 CHIPPED 12" X 12" TILES
GYM BUILDING CORRIDOR AT PRACTICE ROOM 6	5 MISSING & 2 BROKEN 12" X 12" TILES
AUDITORIUM BOILER ROOM	HEATING SUPPLY EXPANSION TANK COVER BLISTERING
MAIN BUILDING BOILER RM #124	TANK INSULATION SEPARATING ON END
MAIN BUILDING BOILER #1	EXHAUST INSULATION 3" X 6" TEAR IN INSUL.
CORRIDOR OUTSIDE ROOM #139	5 DAMAGED 12" X 12" TILES
CORRIDOR #170	6 DAMAGED 12" X 3" TILES
NURSE OFFICE BOYS SIDE	ROOM 134 1 BROKEN 12" X 12" TILE EXPOSED MASTIC
ROOM #143	3 DAMAGED 12" X 12" NEAR TEACHERS DESK
ROOM #167	1 MISSING, 1 LOOSE, 1 BROKEN 9" X 9" UNDER SINK
ROOM #158	2 MISSING, 1 BROKEN 9" X 9" TILE
ROOM #204	2 BROKEN 12" X 12" TILES MASTIC EXPOSED
ROOM #201	5 CHIPPED 12" X 12" TILES
ROOM #306	3 DAMAGED 9" X 9" TILES
CORRIDOR #307	2 CRACKED 9" X 9" TILES NEAR ROOM #309
ALL OTHER PREVIOUSLY DETERMINED ACBM	WAS FOUND TO BE IN GOOD CONDITION AT TIME OF INSPECTION

WILLIAM THAW TECHNICIAN NAME:	W. E. Thaw TECHNICIAN SIGNATURE

ROOM/FUNCTIONAL SPACE INSPECTION-RESPONSE ACTIONS

D1

Building Assessed: **HAVRE DE GRACE HIGH**
Room/Functional Space: **GYM BUILDING CORRIDOR NEAR GIRLS DRESSING ROOM**

SECTION I: TYPE OF ASBESTOS-CONTAINING MATERIAL
(CHECK ONLY ONE TYPE PER SHEET)

( )THERMAL		( )SURFACING		(X)MISC
Check One:	( )Air Cell	( )Ceiling	( )Spray-on	(X)VAT
( )Pipe Ins.	( )Cementitious	( )Wall	( )Trowelled-on	( )Ceiling
( )Elbow/Joint	( )Solid Lag	( )Other:	( )Other:	( )Transite
( )Other:	( )Other:	_____	_____	( )Other:
_____	_____			_____

Homogeneous ID: _____ ( )Sample Taken (X)Material Assumed
Material: ( )Friable (X)Non-Friable Total Sq/Lf: _____
Material: (X)Localized ( )Distributed Accessibility: ( )1 (X)2 ( )3

Degree of Damage
( )Damage or ( )Significantly Damaged Thermal Systems Ins
( )Damaged Friable Surfacing ACM
( )Significantly Damaged Friable Surfacing ACM
( )Damaged or ( )Significantly Damaged Friable Misc. ACM
(X)ACBM w/Potential for Damage
( )ACBM w/Potential for Significant Damage
( )Any Remaining Friable ACBM or Friable Suspected ACBM

Response Actions | Date of Response | Sq/Ln Feet
MAINTAIN ON OPERATIONS & MAINTENANCE PROGRAM-SEPT. 1, 1995
COMMENTS: **REPLACE OR REPAIR**

****

SECTION II: TYPE OF ASBESTOS-CONTAINING MATERIAL
(CHECK ONLY ONE TYPE PER SHEET)

( )THERMAL		( )SURFACING		( )MISC.
Check One:	( )Air Cell	( )Ceiling	( )Spray-on	( )VAT
( )Pipe Ins.	( )Cementitious	( )Wall	( )Trowelled-on	( )Ceiling
( )Elbow/Joint	( )Solid Lag	( )Other:	( )Other:	( )Transite
( )Other:	( )Other:	_____	_____	( )Other:
_____	_____			_____

Homogeneous ID: _____ Check One: ( )Sample Taken ( )Material Assumed
Material: ( )Friable ( )Non-Friable Total Sq/Lf: _____
Material: ( )Localized ( )Distributed Accessibility: ( )1 ( )2 ( )3

Degree of Damage
( )Damage or ( )Significantly Damaged Thermal Systems Ins
( )Damaged Friable Surfacing ACM
( )Significantly Damaged Friable Surfacing ACM
( )Damaged or ( )Significantly Damaged Friable Misc. ACM
( )ACBM w/Potential for Damage
( )ACBM w/Potential for Significant Damage
( )Any Remaining Friable ACBM or Friable Suspected ACBM

Response Actions | Date of Response | Sq/Ln Feet

ROOM/FUNCTIONAL SPACE INSPECTION-RESPONSE ACTIONS

D2

Building Assessed: **HAVRE DE GRACE HIGH**
Room/Functional Space: **GYM BUILDING CORRIDOR AT PRACTICE ROOM 6**

SECTION I: TYPE OF ASBESTOS-CONTAINING MATERIAL
(CHECK ONLY ONE TYPE PER SHEET)

( )THERMAL		( )SURFACING		(X)MISC
Check One:	( )Air Cell	( )Ceiling	( )Spray-on	(X)VAT
( )Pipe Ins.	( )Cementitious	( )Wall	( )Trowelled-on	( )Ceiling
( )Elbow/Joint	( )Solid Lag	( )Other:	( )Other:	( )Transite
( )Other:	( )Other:	_____	_____	( )Other:

Homogeneous ID: _____ ( )Sample Taken (X)Material Assumed
Material: ( )Friable (X)Non-Friable Total Sq/Lf: _____
Material: (X)Localized ( )Distributed Accessibility: ( )1 (X)2 ( )3

Degree of Damage
( )Damage or ( )Significantly Damaged Thermal Systems Ins
( )Damaged Friable Surfacing ACM
( )Significantly Damaged Friable Surfacing ACM
( )Damaged or ( )Significantly Damaged Friable Misc. ACM
(X)ACBM w/Potential for Damage
( )ACBM w/Potential for Significant Damage
( )Any Remaining Friable ACBM or Friable Suspected ACBM

Response Actions | Date of Response | Sq/Ln Feet
MAINTAIN ON OPERATIONS & MAINTENANCE PROGRAM-SEPT. 1, 1995
COMMENTS: **REPLACE OR REPAIR**

****

SECTION II: TYPE OF ASBESTOS-CONTAINING MATERIAL
(CHECK ONLY ONE TYPE PER SHEET)

( )THERMAL		( )SURFACING		( )MISC.
Check One:	( )Air Cell	( )Ceiling	( )Spray-on	( )VAT
( )Pipe Ins.	( )Cementitious	( )Wall	( )Trowelled-on	( )Ceiling
( )Elbow/Joint	( )Solid Lag	( )Other:	( )Other:	( )Transite
( )Other:	( )Other:	_____	_____	( )Other:

Homogeneous ID: _____ Check One: ( )Sample Taken ( )Material Assumed
Material: ( )Friable ( )Non-Friable Total Sq/Lf: _____
Material: ( )Localized ( )Distributed Accessibility: ( )1 ( )2 ( )3

Degree of Damage
( )Damage or ( )Significantly Damaged Thermal Systems Ins
( )Damaged Friable Surfacing ACM
( )Significantly Damaged Friable Surfacing ACM
( )Damaged or ( )Significantly Damaged Friable Misc. ACM
( )ACBM w/Potential for Damage
( )ACBM w/Potential for Significant Damage
( )Any Remaining Friable ACBM or Friable Suspected ACBM

Response Actions | Date of Response | Sq/Ln Feet

ROOM/FUNCTIONAL SPACE INSPECTION-RESPONSE ACTIONS

D3

Building Assessed: **HAVRE DE GRACE HIGH**
Room/Functional Space: **CORRIDOR AT ROOM 139**

SECTION I: TYPE OF ASBESTOS-CONTAINING MATERIAL
(CHECK ONLY ONE TYPE PER SHEET)

( )THERMAL		( )SURFACING		(X)MISC
Check One:	( )Air Cell	( )Ceiling	( )Spray-on	(X)VAT
( )Pipe Ins.	( )Cementitious	( )Wall	( )Trowelled-on	( )Ceiling
( )Elbow/Joint	( )Solid Lag	( )Other:	( )Other:	( )Transite
( )Other:	( )Other:	_____	_____	( )Other:

Homogeneous ID: _____ ( )Sample Taken (X)Material Assumed
Material: ( )Friable (X)Non-Friable Total Sq/Lf: _____
Material: (X)Localized ( )Distributed Accessibility: ( )1 (X)2 ( )3

Degree of Damage
( )Damage or ( )Significantly Damaged Thermal Systems Ins
( )Damaged Friable Surfacing ACM
( )Significantly Damaged Friable Surfacing ACM
( )Damaged or ( )Significantly Damaged Friable Misc. ACM
(X)ACBM w/Potential for Damage
( )ACBM w/Potential for Significant Damage
( )Any Remaining Friable ACBM or Friable Suspected ACBM

Response Actions | Date of Response | Sq/Ln Feet
MAINTAIN ON OPERATIONS & MAINTENANCE PROGRAM-SEPT. 1, 1995
COMMENTS: **REPLACE OR REPAIR**

****

SECTION II: TYPE OF ASBESTOS-CONTAINING MATERIAL
(CHECK ONLY ONE TYPE PER SHEET)

( )THERMAL		( )SURFACING		( )MISC.
Check One:	( )Air Cell	( )Ceiling	( )Spray-on	( )VAT
( )Pipe Ins.	( )Cementitious	( )Wall	( )Trowelled-on	( )Ceiling
( )Elbow/Joint	( )Solid Lag	( )Other:	( )Other:	( )Transite
( )Other:	( )Other:	_____	_____	( )Other:

Homogeneous ID: _____ Check One: ( )Sample Taken ( )Material Assumed
Material: ( )Friable ( )Non-Friable Total Sq/Lf: _____
Material: ( )Localized ( )Distributed Accessibility: ( )1 ( )2 ( )3

Degree of Damage
( )Damage or ( )Significantly Damaged Thermal Systems Ins
( )Damaged Friable Surfacing ACM
( )Significantly Damaged Friable Surfacing ACM
( )Damaged or ( )Significantly Damaged Friable Misc. ACM
( )ACBM w/Potential for Damage
( )ACBM w/Potential for Significant Damage
( )Any Remaining Friable ACBM or Friable Suspected ACBM

Response Actions | Date of Response | Sq/Ln Feet

ROOM/FUNCTIONAL SPACE INSPECTION-RESPONSE ACTIONS

D4

Building Assessed: **HAVRE DE GRACE HIGH**
Room/Functional Space: **CORRIDOR AT 170**

SECTION I: TYPE OF ASBESTOS-CONTAINING MATERIAL
(CHECK ONLY ONE TYPE PER SHEET)

( )THERMAL		( )SURFACING		(X)MISC
Check One:	( )Air Cell	( )Ceiling	( )Spray-on	(X)VAT
( )Pipe Ins.	( )Cementitious	( )Wall	( )Trowelled-on	( )Ceiling
( )Elbow/Joint	( )Solid Lag	( )Other:	( )Other:	( )Transite
( )Other:	( )Other:			( )Other:

Homogeneous ID: _____ ( )Sample Taken (X)Material Assumed
Material: ( )Friable (X)Non-Friable Total Sq/Lf: _____
Material: (X)Localized ( )Distributed Accessibility: ( )1 (X)2 ( )3

Degree of Damage
( )Damage or ( )Significantly Damaged Thermal Systems Ins
( )Damaged Friable Surfacing ACM
( )Significantly Damaged Friable Surfacing ACM
( )Damaged or ( )Significantly Damaged Friable Misc. ACM
(X)ACBM w/Potential for Damage
( )ACBM w/Potential for Significant Damage
( )Any Remaining Friable ACBM or Friable Suspected ACBM

Response Actions | Date of Response | Sq/Ln Feet
MAINTAIN ON OPERATIONS & MAINTENANCE PROGRAM-SEPT. 1, 1995
COMMENTS: **REPLACE OR REPAIR**

****

SECTION II: TYPE OF ASBESTOS-CONTAINING MATERIAL
(CHECK ONLY ONE TYPE PER SHEET)

( )THERMAL		( )SURFACING		( )MISC.
Check One:	( )Air Cell	( )Ceiling	( )Spray-on	( )VAT
( )Pipe Ins.	( )Cementitious	( )Wall	( )Trowelled-on	( )Ceiling
( )Elbow/Joint	( )Solid Lag	( )Other:	( )Other:	( )Transite
( )Other:	( )Other:			( )Other:

Homogeneous ID: _____ Check One: ( )Sample Taken ( )Material Assumed
Material: ( )Friable ( )Non-Friable Total Sq/Lf: _____
Material: ( )Localized ( )Distributed Accessibility: ( )1 ( )2 ( )3

Degree of Damage
( )Damage or ( )Significantly Damaged Thermal Systems Ins
( )Damaged Friable Surfacing ACM
( )Significantly Damaged Friable Surfacing ACM
( )Damaged or ( )Significantly Damaged Friable Misc. ACM
( )ACBM w/Potential for Damage
( )ACBM w/Potential for Significant Damage
( )Any Remaining Friable ACBM or Friable Suspected ACBM

Response Actions | Date of Response | Sq/Ln Feet

ROOM/FUNCTIONAL SPACE INSPECTION-RESPONSE ACTIONS

D5

Building Assessed: **HAVRE DE GRACE HIGH**
Room/Functional Space: **NURSE'S OFFICE BOYS SIDE**

SECTION I: TYPE OF ASBESTOS-CONTAINING MATERIAL
(CHECK ONLY ONE TYPE PER SHEET)

( )THERMAL		( )SURFACING		(X)MISC
Check One:	( )Air Cell	( )Ceiling	( )Spray-on	(X)VAT
( )Pipe Ins.	( )Cementitious	( )Wall	( )Trowelled-on	( )Ceiling
( )Elbow/Joint	( )Solid Lag	( )Other:	( )Other:	( )Transite
( )Other:	( )Other:			( )Other:

Homogeneous ID: _____ ( )Sample Taken (X)Material Assumed
Material: ( )Friable (X)Non-Friable Total Sq/Lf: _____
Material: (X)Localized ( )Distributed Accessibility: ( )1 (X)2 ( )3

Degree of Damage
( )Damage or ( )Significantly Damaged Thermal Systems Ins
( )Damaged Friable Surfacing ACM
( )Significantly Damaged Friable Surfacing ACM
( )Damaged or ( )Significantly Damaged Friable Misc. ACM
(X)ACBM w/Potential for Damage
( )ACBM w/Potential for Significant Damage
( )Any Remaining Friable ACBM or Friable Suspected ACBM

Response Actions | Date of Response | Sq/Ln Feet
MAINTAIN ON OPERATIONS & MAINTENANCE PROGRAM-SEPT. 1, 1995
COMMENTS: **REPLACE OR REPAIR**

****

SECTION II: TYPE OF ASBESTOS-CONTAINING MATERIAL
(CHECK ONLY ONE TYPE PER SHEET)

( )THERMAL		( )SURFACING		( )MISC.
Check One:	( )Air Cell	( )Ceiling	( )Spray-on	( )VAT
( )Pipe Ins.	( )Cementitious	( )Wall	( )Trowelled-on	( )Ceiling
( )Elbow/Joint	( )Solid Lag	( )Other:	( )Other:	( )Transite
( )Other:	( )Other:			( )Other:

Homogeneous ID: _____ Check One: ( )Sample Taken ( )Material Assumed
Material: ( )Friable ( )Non-Friable Total Sq/Lf: _____
Material: ( )Localized ( )Distributed Accessibility: ( )1 ( )2 ( )3

Degree of Damage
( )Damage or ( )Significantly Damaged Thermal Systems Ins
( )Damaged Friable Surfacing ACM
( )Significantly Damaged Friable Surfacing ACM
( )Damaged or ( )Significantly Damaged Friable Misc. ACM
( )ACBM w/Potential for Damage
( )ACBM w/Potential for Significant Damage
( )Any Remaining Friable ACBM or Friable Suspected ACBM

Response Actions | Date of Response | Sq/Ln Feet

ROOM/FUNCTIONAL SPACE INSPECTION-RESPONSE ACTIONS

D6

Building Assessed: **HAVRE DE GRACE HIGH**
Room/Functional Space: **ROOM 143**

SECTION I: TYPE OF ASBESTOS-CONTAINING MATERIAL
(CHECK ONLY ONE TYPE PER SHEET)

( )THERMAL		( )SURFACING		(X)MISC
Check One:	( )Air Cell	( )Ceiling	( )Spray-on	(X)VAT
( )Pipe Ins.	( )Cementitious	( )Wall	( )Trowelled-on	( )Ceiling
( )Elbow/Joint	( )Solid Lag	( )Other:	( )Other:	( )Transite
( )Other:	( )Other:			( )Other:

Homogeneous ID: _____ ( )Sample Taken (X)Material Assumed
Material: ( )Friable (X)Non-Friable Total Sq/Lf: _____
Material: (X)Localized ( )Distributed Accessibility: ( )1 (X)2 ( )3

Degree of Damage
( )Damage or ( )Significantly Damaged Thermal Systems Ins
( )Damaged Friable Surfacing ACM
( )Significantly Damaged Friable Surfacing ACM
( )Damaged or ( )Significantly Damaged Friable Misc. ACM
(X)ACBM w/Potential for Damage
( )ACBM w/Potential for Significant Damage
( )Any Remaining Friable ACBM or Friable Suspected ACBM

Response Actions | Date of Response | Sq/Ln Feet
MAINTAIN ON OPERATIONS & MAINTENANCE PROGRAM-SEPT. 1, 1995
COMMENTS: **REPLACE OR REPAIR**

****

SECTION II: TYPE OF ASBESTOS-CONTAINING MATERIAL
(CHECK ONLY ONE TYPE PER SHEET)

( )THERMAL		( )SURFACING		( )MISC.
Check One:	( )Air Cell	( )Ceiling	( )Spray-on	( )VAT
( )Pipe Ins.	( )Cementitious	( )Wall	( )Trowelled-on	( )Ceiling
( )Elbow/Joint	( )Solid Lag	( )Other:	( )Other:	( )Transite
( )Other:	( )Other:			( )Other:

Homogeneous ID: _____ Check One: ( )Sample Taken ( )Material Assumed
Material: ( )Friable ( )Non-Friable Total Sq/Lf: _____
Material: ( )Localized ( )Distributed Accessibility: ( )1 ( )2 ( )3

Degree of Damage
( )Damage or ( )Significantly Damaged Thermal Systems Ins
( )Damaged Friable Surfacing ACM
( )Significantly Damaged Friable Surfacing ACM
( )Damaged or ( )Significantly Damaged Friable Misc. ACM
( )ACBM w/Potential for Damage
( )ACBM w/Potential for Significant Damage
( )Any Remaining Friable ACBM or Friable Suspected ACBM

Response Actions | Date of Response | Sq/Ln Feet

ROOM/FUNCTIONAL SPACE INSPECTION-RESPONSE ACTIONS

D7

Building Assessed: **HAVRE DE GRACE HIGH**
Room/Functional Space: **ROOM 167**

SECTION I: TYPE OF ASBESTOS-CONTAINING MATERIAL
(CHECK ONLY ONE TYPE PER SHEET)

( )THERMAL		( )SURFACING		(X)MISC
Check One:	( )Air Cell	( )Ceiling	( )Spray-on	(X)VAT
( )Pipe Ins.	( )Cementitious	( )Wall	( )Trowelled-on	( )Ceiling
( )Elbow/Joint	( )Solid Lag	( )Other:	( )Other:	( )Transite
( )Other:	( )Other:			( )Other:

Homogeneous ID: _____ ( )Sample Taken (X)Material Assumed
Material: ( )Friable (X)Non-Friable Total Sq/Lf: _____
Material: (X)Localized ( )Distributed Accessibility: ( )1 (X)2 ( )3

Degree of Damage
( )Damage or ( )Significantly Damaged Thermal Systems Ins
( )Damaged Friable Surfacing ACM
( )Significantly Damaged Friable Surfacing ACM
( )Damaged or ( )Significantly Damaged Friable Misc. ACM
(X)ACBM w/Potential for Damage
( )ACBM w/Potential for Significant Damage
( )Any Remaining Friable ACBM or Friable Suspected ACBM

Response Actions | Date of Response | Sq/Ln Feet
MAINTAIN ON OPERATIONS & MAINTENANCE PROGRAM-SEPT. 1, 1995
COMMENTS: **REPLACE OR REPAIR**

****

SECTION II: TYPE OF ASBESTOS-CONTAINING MATERIAL
(CHECK ONLY ONE TYPE PER SHEET)

( )THERMAL		( )SURFACING		( )MISC.
Check One:	( )Air Cell	( )Ceiling	( )Spray-on	( )VAT
( )Pipe Ins.	( )Cementitious	( )Wall	( )Trowelled-on	( )Ceiling
( )Elbow/Joint	( )Solid Lag	( )Other:	( )Other:	( )Transite
( )Other:	( )Other:			( )Other:

Homogeneous ID: _____ Check One: ( )Sample Taken ( )Material Assumed
Material: ( )Friable ( )Non-Friable Total Sq/Lf: _____
Material: ( )Localized ( )Distributed Accessibility: ( )1 ( )2 ( )3

Degree of Damage
( )Damage or ( )Significantly Damaged Thermal Systems Ins
( )Damaged Friable Surfacing ACM
( )Significantly Damaged Friable Surfacing ACM
( )Damaged or ( )Significantly Damaged Friable Misc. ACM
( )ACBM w/Potential for Damage
( )ACBM w/Potential for Significant Damage
( )Any Remaining Friable ACBM or Friable Suspected ACBM

Response Actions | Date of Response | Sq/Ln Feet

ROOM/FUNCTIONAL SPACE INSPECTION-RESPONSE ACTIONS

D8

Building Assessed: **HAVRE DE GRACE HIGH**
Room/Functional Space: **ROOM 158**

SECTION I: TYPE OF ASBESTOS-CONTAINING MATERIAL
(CHECK ONLY ONE TYPE PER SHEET)

( )THERMAL		( )SURFACING		(X)MISC
Check One:	( )Air Cell	( )Ceiling	( )Spray-on	(X)VAT
( )Pipe Ins.	( )Cementitious	( )Wall	( )Trowelled-on	( )Ceiling
( )Elbow/Joint	( )Solid Lag	( )Other:	( )Other:	( )Transite
( )Other:	( )Other:	_____	_____	( )Other:
_____	_____			_____

Homogeneous ID: _____ ( )Sample Taken (X)Material Assumed
Material: ( )Friable (X)Non-Friable Total Sq/Lf: _____
Material: (X)Localized ( )Distributed Accessibility: ( )1 (X)2 ( )3

Degree of Damage
( )Damage or ( )Significantly Damaged Thermal Systems Ins
( )Damaged Friable Surfacing ACM
( )Significantly Damaged Friable Surfacing ACM
( )Damaged or ( )Significantly Damaged Friable Misc. ACM
(X)ACBM w/Potential for Damage
( )ACBM w/Potential for Significant Damage
( )Any Remaining Friable ACBM or Friable Suspected ACBM

Response Actions | Date of Response | Sq/Ln Feet
MAINTAIN ON OPERATIONS & MAINTENANCE PROGRAM-SEPT. 1, 1995
COMMENTS: **REPLACE OR REPAIR**

****

SECTION II: TYPE OF ASBESTOS-CONTAINING MATERIAL
(CHECK ONLY ONE TYPE PER SHEET)

( )THERMAL		( )SURFACING		( )MISC.
Check One:	( )Air Cell	( )Ceiling	( )Spray-on	( )VAT
( )Pipe Ins.	( )Cementitious	( )Wall	( )Trowelled-on	( )Ceiling
( )Elbow/Joint	( )Solid Lag	( )Other:	( )Other:	( )Transite
( )Other:	( )Other:	_____	_____	( )Other:
_____	_____			_____

Homogeneous ID: _____ Check One: ( )Sample Taken ( )Material Assumed
Material: ( )Friable ( )Non-Friable Total Sq/Lf: _____
Material: ( )Localized ( )Distributed Accessibility: ( )1 ( )2 ( )3

Degree of Damage
( )Damage or ( )Significantly Damaged Thermal Systems Ins
( )Damaged Friable Surfacing ACM
( )Significantly Damaged Friable Surfacing ACM
( )Damaged or ( )Significantly Damaged Friable Misc. ACM
( )ACBM w/Potential for Damage
( )ACBM w/Potential for Significant Damage
( )Any Remaining Friable ACBM or Friable Suspected ACBM

Response Actions | Date of Response | Sq/Ln Feet

ROOM/FUNCTIONAL SPACE INSPECTION-RESPONSE ACTIONS

D9

Building Assessed: **HAVRE DE GRACE HIGH**
Room/Functional Space: **ROOM 204**

SECTION I: TYPE OF ASBESTOS-CONTAINING MATERIAL
(CHECK ONLY ONE TYPE PER SHEET)

( )THERMAL		( )SURFACING		(X)MISC
Check One:	( )Air Cell	( )Ceiling	( )Spray-on	(X)VAT
( )Pipe Ins.	( )Cementitious	( )Wall	( )Trowelled-on	( )Ceiling
( )Elbow/Joint	( )Solid Lag	( )Other:	( )Other:	( )Transite
( )Other:	( )Other:	_____	_____	( )Other:

Homogeneous ID: _____ ( )Sample Taken (X)Material Assumed
Material: ( )Friable (X)Non-Friable Total Sq/Lf: _____
Material: (X)Localized ( )Distributed Accessibility: ( )1 (X)2 ( )3

Degree of Damage

( )Damage or ( )Significantly Damaged Thermal Systems Ins	(X)ACBM w/Potential for Damage
( )Damaged Friable Surfacing ACM	( )ACBM w/Potential for Significant Damage
( )Significantly Damaged Friable Surfacing ACM	( )Any Remaining Friable ACBM or Friable Suspected ACBM
( )Damaged or ( )Significantly Damaged Friable Misc. ACM	

Response Actions | Date of Response | Sq/Ln Feet
MAINTAIN ON OPERATIONS & MAINTENANCE PROGRAM-SEPT. 1, 1995
COMMENTS: **REPLACE OR REPAIR**

****

SECTION II: TYPE OF ASBESTOS-CONTAINING MATERIAL
(CHECK ONLY ONE TYPE PER SHEET)

( )THERMAL		( )SURFACING		( )MISC.
Check One:	( )Air Cell	( )Ceiling	( )Spray-on	( )VAT
( )Pipe Ins.	( )Cementitious	( )Wall	( )Trowelled-on	( )Ceiling
( )Elbow/Joint	( )Solid Lag	( )Other:	( )Other:	( )Transite
( )Other:	( )Other:	_____	_____	( )Other:

Homogeneous ID: _____ Check One: ( )Sample Taken ( )Material Assumed
Material: ( )Friable ( )Non-Friable Total Sq/Lf: _____
Material: ( )Localized ( )Distributed Accessibility: ( )1 ( )2 ( )3

Degree of Damage

( )Damage or ( )Significantly Damaged Thermal Systems Ins	( )ACBM w/Potential for Damage
( )Damaged Friable Surfacing ACM	( )ACBM w/Potential for Significant Damage
( )Significantly Damaged Friable Surfacing ACM	( )Any Remaining Friable ACBM or Friable Suspected ACBM
( )Damaged or ( )Significantly Damaged Friable Misc. ACM	

Response Actions | Date of Response | Sq/Ln Feet

ROOM/FUNCTIONAL SPACE INSPECTION-RESPONSE ACTIONS

D10

Building Assessed: **HAVRE DE GRACE HIGH**
Room/Functional Space: **ROOM 201**

SECTION I: TYPE OF ASBESTOS-CONTAINING MATERIAL
(CHECK ONLY ONE TYPE PER SHEET)

( )THERMAL		( )SURFACING		(X)MISC
Check One:	( )Air Cell	( )Ceiling	( )Spray-on	(X)VAT
( )Pipe Ins.	( )Cementitious	( )Wall	( )Trowelled-on	( )Ceiling
( )Elbow/Joint	( )Solid Lag	( )Other:	( )Other:	( )Transite
( )Other:	( )Other:	_____	_____	( )Other:

Homogeneous ID: _____ ( )Sample Taken (X)Material Assumed
Material: ( )Friable (X)Non-Friable Total Sq/Lf: _____
Material: (X)Localized ( )Distributed Accessibility: ( )1 (X)2 ( )3

Degree of Damage
( )Damage or ( )Significantly Damaged Thermal Systems Ins
( )Damaged Friable Surfacing ACM
( )Significantly Damaged Friable Surfacing ACM
( )Damaged or ( )Significantly Damaged Friable Misc. ACM
(X)ACBM w/Potential for Damage
( )ACBM w/Potential for Significant Damage
( )Any Remaining Friable ACBM or Friable Suspected ACBM

Response Actions | Date of Response | Sq/Ln Feet
MAINTAIN ON OPERATIONS & MAINTENANCE PROGRAM-SEPT. 1, 1995
COMMENTS: **REPLACE OR REPAIR**

****

SECTION II: TYPE OF ASBESTOS-CONTAINING MATERIAL
(CHECK ONLY ONE TYPE PER SHEET)

( )THERMAL		( )SURFACING		( )MISC.
Check One:	( )Air Cell	( )Ceiling	( )Spray-on	( )VAT
( )Pipe Ins.	( )Cementitious	( )Wall	( )Trowelled-on	( )Ceiling
( )Elbow/Joint	( )Solid Lag	( )Other:	( )Other:	( )Transite
( )Other:	( )Other:	_____	_____	( )Other:

Homogeneous ID: _____ Check One: ( )Sample Taken ( )Material Assumed
Material: ( )Friable ( )Non-Friable Total Sq/Lf: _____
Material: ( )Localized ( )Distributed Accessibility: ( )1 ( )2 ( )3

Degree of Damage
( )Damage or ( )Significantly Damaged Thermal Systems Ins
( )Damaged Friable Surfacing ACM
( )Significantly Damaged Friable Surfacing ACM
( )Damaged or ( )Significantly Damaged Friable Misc. ACM
( )ACBM w/Potential for Damage
( )ACBM w/Potential for Significant Damage
( )Any Remaining Friable ACBM or Friable Suspected ACBM

Response Actions | Date of Response | Sq/Ln Feet

ROOM/FUNCTIONAL SPACE INSPECTION-RESPONSE ACTIONS

D11

Building Assessed: **HAVRE DE GRACE HIGH**
Room/Functional Space: **ROOM 306**

SECTION I: TYPE OF ASBESTOS-CONTAINING MATERIAL
(CHECK ONLY ONE TYPE PER SHEET)

( )THERMAL		( )SURFACING		(X)MISC
Check One:	( )Air Cell	( )Ceiling	( )Spray-on	(X)VAT
( )Pipe Ins.	( )Cementitious	( )Wall	( )Trowelled-on	( )Ceiling
( )Elbow/Joint	( )Solid Lag	( )Other:	( )Other:	( )Transite
( )Other:	( )Other:			( )Other:

Homogeneous ID: _____ ( )Sample Taken (X)Material Assumed
Material: ( )Friable (X)Non-Friable Total Sq/Lf: _____
Material: (X)Localized ( )Distributed Accessibility: ( )1 (X)2 ( )3

Degree of Damage
( )Damage or ( )Significantly Damaged Thermal Systems Ins
( )Damaged Friable Surfacing ACM
( )Significantly Damaged Friable Surfacing ACM
( )Damaged or ( )Significantly Damaged Friable Misc. ACM
(X)ACBM w/Potential for Damage
( )ACBM w/Potential for Significant Damage
( )Any Remaining Friable ACBM or Friable Suspected ACBM

Response Actions | Date of Response | Sq/Ln Feet
MAINTAIN ON OPERATIONS & MAINTENANCE PROGRAM-SEPT. 1, 1995
COMMENTS: **REPLACE OR REPAIR**

****

SECTION II: TYPE OF ASBESTOS-CONTAINING MATERIAL
(CHECK ONLY ONE TYPE PER SHEET)

( )THERMAL		( )SURFACING		( )MISC.
Check One:	( )Air Cell	( )Ceiling	( )Spray-on	( )VAT
( )Pipe Ins.	( )Cementitious	( )Wall	( )Trowelled-on	( )Ceiling
( )Elbow/Joint	( )Solid Lag	( )Other:	( )Other:	( )Transite
( )Other:	( )Other:			( )Other:

Homogeneous ID: _____ Check One: ( )Sample Taken ( )Material Assumed
Material: ( )Friable ( )Non-Friable Total Sq/Lf: _____
Material: ( )Localized ( )Distributed Accessibility: ( )1 ( )2 ( )3

Degree of Damage
( )Damage or ( )Significantly Damaged Thermal Systems Ins
( )Damaged Friable Surfacing ACM
( )Significantly Damaged Friable Surfacing ACM
( )Damaged or ( )Significantly Damaged Friable Misc. ACM
( )ACBM w/Potential for Damage
( )ACBM w/Potential for Significant Damage
( )Any Remaining Friable ACBM or Friable Suspected ACBM

Response Actions | Date of Response | Sq/Ln Feet

ROOM/FUNCTIONAL SPACE INSPECTION-RESPONSE ACTIONS

D12

Building Assessed: **HAVRE DE GRACE HIGH**
Room/Functional Space: **ROOM 307**

SECTION I: TYPE OF ASBESTOS-CONTAINING MATERIAL
(CHECK ONLY ONE TYPE PER SHEET)

( )THERMAL		( )SURFACING		(X)MISC
Check One:	( )Air Cell	( )Ceiling	( )Spray-on	(X)VAT
( )Pipe Ins.	( )Cementitious	( )Wall	( )Trowelled-on	( )Ceiling
( )Elbow/Joint	( )Solid Lag	( )Other:	( )Other:	( )Transite
( )Other:	( )Other:			( )Other:

Homogeneous ID: _____ ( )Sample Taken (X)Material Assumed
Material: ( )Friable (X)Non-Friable Total Sq/Lf: _____
Material: (X)Localized ( )Distributed Accessibility: ( )1 (X)2 ( )3

Degree of Damage
( )Damage or ( )Significantly Damaged Thermal Systems Ins
( )Damaged Friable Surfacing ACM
( )Significantly Damaged Friable Surfacing ACM
( )Damaged or ( )Significantly Damaged Friable Misc. ACM
(X)ACBM w/Potential for Damage
( )ACBM w/Potential for Significant Damage
( )Any Remaining Friable ACBM or Friable Suspected ACBM

Response Actions | Date of Response | Sq/Ln Feet
MAINTAIN ON OPERATIONS & MAINTENANCE PROGRAM-SEPT. 1, 1995
COMMENTS: **REPLACE OR REPAIR**

****

SECTION II: TYPE OF ASBESTOS-CONTAINING MATERIAL
(CHECK ONLY ONE TYPE PER SHEET)

( )THERMAL		( )SURFACING		( )MISC.
Check One:	( )Air Cell	( )Ceiling	( )Spray-on	( )VAT
( )Pipe Ins.	( )Cementitious	( )Wall	( )Trowelled-on	( )Ceiling
( )Elbow/Joint	( )Solid Lag	( )Other:	( )Other:	( )Transite
( )Other:	( )Other:			( )Other:

Homogeneous ID: _____ Check One: ( )Sample Taken ( )Material Assumed
Material: ( )Friable ( )Non-Friable Total Sq/Lf: _____
Material: ( )Localized ( )Distributed Accessibility: ( )1 ( )2 ( )3

Degree of Damage
( )Damage or ( )Significantly Damaged Thermal Systems Ins
( )Damaged Friable Surfacing ACM
( )Significantly Damaged Friable Surfacing ACM
( )Damaged or ( )Significantly Damaged Friable Misc. ACM
( )ACBM w/Potential for Damage
( )ACBM w/Potential for Significant Damage
( )Any Remaining Friable ACBM or Friable Suspected ACBM

Response Actions | Date of Response | Sq/Ln Feet

E1

Building Assessed: **HAVRE DE GRACE HIGH**
Room/Functional Space: **GYM BUILDING BOILER ROOM**

SECTION I: TYPE OF ACM (CHECK ONLY ONE TYPE PER SHEET)

(X)THERMAL		( )SURFACING		( )MISC.
Check One:	( )Air Cell	( )Ceiling	( )Spray-on	( )VAT
( )Pipe Ins.	( )Cementitious	( )Wall	( )Trowelled-on	( )Transite
(X)Elbow/Joint	( )Solid Lag	( )Other:	( )Other:	( )Other:
( )Boiler	( )Asbestos Block	_____	_____	_____
( )Duct	( )Other:			
( )Breeching	_____			
( )Hot Water Tank				

Homogeneous ID: _____ Check One: ( )Sample Taken (X)Material Assumed
Material: (X)Friable ( )Non-Friable Total Sq/Lf: _____
Material: (X)Localized ( )Distributed Accessibility: ( )1 (X)2 ( )3

Degree of Damage
- ( )Damaged or (X)Significantly Damaged Thermal Systems Ins
- ( )Damaged Friable Surfacing ACM
- ( )Significantly Damaged Friable Surfacing ACM
- ( )Damaged or ( )Significantly Damaged Friable Misc. ACM
- ( )ACBM w/Potential for Damage
- ( )ACBM w/Potential for Significant Damage
- ( )Any Remaining Friable ACBM or Friable Suspected ACBM

Response Action: Date: Sq/Ln Feet:
MAINTAIN ON OPERATIONS AND MAINTENANCE PROGRAM-SEPT. 1, 1995
COMMENTS: **REMOVE OR REPAIR & ENCAPSULATE**

****

SECTION II: TYPE OF ACM (CHECK ONLY ONE TYPE PER SHEET)

( )THERMAL		( )SURFACING		( )MISC.
Check One:	( )Air Cell	( )Ceiling	( )Spray-on	( )VAT
( )Pipe Ins.	( )Cementitious	( )Wall	( )Trowelled-on	( )Transite
( )Elbow/Joint	( )Solid Lag	( )Other:	( )Other:	( )Other:
( )Boiler	( )Asbestos Block	_____	_____	_____
( )Duct	( )Other:			
( )Breeching	_____			
( )Hot Water Tank	( )Other: _____			

Homogeneous ID: Check One: ( )Sample Taken ( )Material Assumed
Material: ( )Friable ( )Non-Friable Total Sq/Lf:
Material: ( )Localized ( )Distributed Accessibility: ( )1 ( )2 ( )3

Degree of Damage
- ( )Damaged or ( )Significantly Damaged Thermal Systems Ins
- ( )Damaged Friable Surfacing ACM
- ( )Significantly Damaged Friable Surfacing ACM
- ( )Damaged or ( )Significantly Damaged Friable Misc. ACM
- ( )ACBM w/Potential for Damage
- ( )ACBM w/Potential for Significant Damage
- ( )Any Remaining Friable ACBM or Friable Suspected ACBM

Response Action: Date: Sq/Ln Ft:

E2

Building Assessed: **HAVRE DE GRACE HIGH**
Room/Functional Space: **MAIN BUILDING BOILER ROOM 124**

SECTION I: TYPE OF ACM (CHECK ONLY ONE TYPE PER SHEET)

(X)THERMAL		( )SURFACING		( )MISC.
Check One:	( )Air Cell	( )Ceiling	( )Spray-on	( )VAT
( )Pipe Ins.	( )Cementitious	( )Wall	( )Trowelled-on	( )Transite
( )Elbow/Joint	( )Solid Lag	( )Other:	( )Other:	( )Other:
( )Boiler	(X)Asbestos Block	_____	_____	_____
( )Duct	( )Other:			
( )Breeching	_____			
(X)Hot Water Tank				

Homogeneous ID: _____ Check One: ( )Sample Taken (X)Material Assumed
Material: ( )Friable (X)Non-Friable Total Sq/Lf: _____
Material: (X)Localized ( )Distributed Accessibility: ( )1 (X)2 ( )3

Degree of Damage

(X)Damaged or ( )Significantly Damaged Thermal Systems Ins	( )ACBM w/Potential for Damage
( )Damaged Friable Surfacing ACM	( )ACBM w/Potential for Significant Damage
( )Significantly Damaged Friable Surfacing ACM	( )Any Remaining Friable ACBM or Friable Suspected ACBM
( )Damaged or ( )Significantly Damaged Friable Misc. ACM	

Response Action: Date: Sq/Ln Feet:
MAINTAIN ON OPERATIONS AND MAINTENANCE PROGRAM-SEPT. 1, 1995
COMMENTS: **REPAIR AND ENCAPSULATE**

****

SECTION II: TYPE OF ACM (CHECK ONLY ONE TYPE PER SHEET)

(X)THERMAL		( )SURFACING		( )MISC.
Check One:	( )Air Cell	( )Ceiling	( )Spray-on	( )VAT
( )Pipe Ins.	( )Cementitious	( )Wall	( )Trowelled-on	( )Transite
( )Elbow/Joint	( )Solid Lag	( )Other:	( )Other:	( )Other:
( )Boiler	( )Asbestos Block	_____	_____	_____
( )Duct	(X)Other:			
( )Breeching	**CAL SIL**			
( )Hot Water Tank	(X)Other: **EXHAUST**			

Homogeneous ID: Check One: ( )Sample Taken (X)Material Assumed
Material: ( )Friable (X)Non-Friable Total Sq/Lf:
Material: (X)Localized ( )Distributed Accessibility: ( )1 (X)2 ( )3

Degree of Damage

(X)Damaged or ( )Significantly Damaged Thermal Systems Ins	( )ACBM w/Potential for Damage
( )Damaged Friable Surfacing ACM	( )ACBM w/Potential for Significant Damage
( )Significantly Damaged Friable Surfacing ACM	( )Any Remaining Friable ACBM or Friable Suspected ACBM
( )Damaged or ( )Significantly Damaged Friable Misc. ACM	

Response Action: Date: Sq/Ln Ft:

REPAIR AND ENCAPSULATE

Building Assessed: **HAVRE DE GRACE HIGH**
Room/Functional Space: **AUDITORIUM BOILER ROOM**

SECTION I: TYPE OF ACM (CHECK ONLY ONE TYPE PER SHEET)

(X)THERMAL		( )SURFACING		( )MISC.
Check One:	( )Air Cell	( )Ceiling	( )Spray-on	( )VAT
( )Pipe Ins.	( )Cementitious	( )Wall	( )Trowelled-on	( )Transite
( )Elbow/Joint	( )Solid Lag	( )Other:	( )Other:	( )Other:
( )Boiler	( )Asbestos Block	_____	_____	_____
( )Duct	(X)Other:			
( )Breeching	**COVERING**			
( )Hot Water Tank	(X) Other: **EXPANSION TANK**			

Homogeneous ID: _____ Check One: ( )Sample Taken (X)Material Assumed
Material: ( )Friable (X)Non-Friable Total Sq/Lf: _____
Material: (X)Localized ( )Distributed Accessibility: ( )1 (X)2 ( )3

Degree of Damage
(X)Damaged or ( )Significantly Damaged Thermal Systems Ins
( )Damaged Friable Surfacing ACM
( )Significantly Damaged Friable Surfacing ACM
( )Damaged or ( )Significantly Damaged Friable Misc. ACM
( )ACBM w/Potential for Damage
( )ACBM w/Potential for Significant Damage
( )Any Remaining Friable ACBM or Friable Suspected ACBM

Response Action: Date: Sq/Ln Feet:
MAINTAIN ON OPERATIONS AND MAINTENANCE PROGRAM-SEPT. 1, 1995
COMMENTS: **REWRAP AND ENCAPSULATE**

****

SECTION II: TYPE OF ACM (CHECK ONLY ONE TYPE PER SHEET)

( )THERMAL		( )SURFACING		( )MISC.
Check One:	( )Air Cell	( )Ceiling	( )Spray-on	( )VAT
( )Pipe Ins.	( )Cementitious	( )Wall	( )Trowelled-on	( )Transite
( )Elbow/Joint	( )Solid Lag	( )Other:	( )Other:	( )Other:
( )Boiler	( )Asbestos Block	_____	_____	_____
( )Duct	( )Other:			
( )Breeching	_____			
( )Hot Water Tank	( )Other: _____			

Homogeneous ID: Check One: ( )Sample Taken ( )Material Assumed
Material: ( )Friable ( )Non-Friable Total Sq/Lf:
Material: ( )Localized ( )Distributed Accessibility: ( )1 ( )2 ( )3

Degree of Damage
( )Damaged or ( )Significantly Damaged Thermal Systems Ins
( )Damaged Friable Surfacing ACM
( )Significantly Damaged Friable Surfacing ACM
( )Damaged or ( )Significantly Damaged Friable Misc. ACM
( )ACBM w/Potential for Damage
( )ACBM w/Potential for Significant Damage
( )Any Remaining Friable ACBM or Friable Suspected ACBM

Response Action: Date: Sq/Ln Ft:

CERTIFICATE NUMBER: 12979

THIS IS TO CERTIFY THAT

William E. Thaw

HAS MET THE ATTENDANCE REQUIREMENTS AND SUCCESSFULLY COMPLETED THE EXAM IN THE COURSE ENTITLED

ASBESTOS BUILDING INSPECTOR

EPA APPROVED COURSE UNDER TITLE II RULE

Environmental Training, Inc.
TRAINING PROVIDER

January 30 - February 1, 1995
COURSE DATE

1702 Industrial Highway, Suite 7
ADDRESS

February 1, 1996
EXPIRATION DATE

31-90-01-BI
COURSE APPROVAL NUMBER

William E Thaw
STUDENT'S SIGNATURE

William Harcourt
COURSE DIRECTOR (NAME AND SIGNATURE)

STATE OF MARYLAND

REG # 007612

NAETI National Asbestos & Environmental Training Institute

AHERA/EPA Accredited
Per 40 CFR Part 763

Certificate of Completion

This is to certify that John J. Gordon S/S #173-28-0758

has successfully completed the course entitled EPA/AHERA/N.Y.State 1/2 Day Management Planner Refresher

on December 2, 19 94

Examination passed on N/A 19 ____

Expiration date: Dec. 2, 1995

Doris L. Adler
President

Dec. 2, 1994
Date

3321 Doris Avenue, Building B, Ocean, NJ 07712 (908) 531-5571

TO: All Principals

FROM: Patti Jo Waddell

SUBJECT: Reinspection for AHERA Compliance

DATE: March 27, 1992

The Asbestos Hazard Emergency Response Act (AHERA) requires that all Local Education Agencies (LEAs) complete inspections to identify asbestos containing materials (ACM) in all school buildings and prepare management plans to safely and effectively manage any asbestos identified during the inspection. After the initial inspection, the LEA is required to conduct reinspections at least once every three years. Spotts, Stevens and McCoy conducted the initial inspection for Harford County Public Schools. All reinspections for HCPS will be done by i-TEM Limited, an environmental firm.

The reinspections will involve visual inspection, taking samples of some building materials for analysis and updating current management plans. Any samples taken will be very small and the sample locations will be patched. The actual site work will only be a couple days at each school. Activities connected with the inspections may require contractor personnel to work in the school during class hours. However, every effort will be made to schedule work outside normal class hours. Scheduling will require cooperation between school, contractor and Facilities department personnel.

The reinspections will begin the first week of April and continue through June. All documentation will be done by the first week of July. As the updated documents become available, you will receive the school's copy. You will be notified as the details in scheduling are finalized. Please inform staff, students and parents of upcoming activities. An example would be "According to AHERA requirements, all schools were inspected for asbestos in 1989 and a management plan was developed. Reinspections are required once every three years. This will be done during the spring of 1992 in all Harford County Public Schools. This information is provided in compliance with AHERA regulations." If there are any questions, please do not hesitate to contact me.

bm

pc: Roger C. Niles
Joseph M. Devilbiss

i-TEM, Ltd.

AHERA Three (3) Year Reinspection Form
AHERA Management Plan Update

This form is to be included in the Record Keeping section of the LEA- designee copy of each school's Management Plan. A copy of this form should also be kept in the corresponding school's copy of the Management Plan.

FACILITY: Havre de Grace High School

ADDRESS: 700 Congress Ave. Havre de Grace, MD 21078-3089

DATE: 4/15/92

EPA ACCRED. INSPECTOR: Heppner/Watson (print) SIGNATURE: Jamie H. Watson (sign)

PREVIOUSLY IDENTIFIED AND/OR ASSUMED ACM:

Boiler Room (412)
- Tank Insulation - 600 S.F.

Auditorium
- Stage Light Wire Insulation - 212 L.F.

Rooms 162,167,227 , and 403
- Fittings on Layered Paper Pipe Insulation - 50 EA.

Throughout the Building
- Fittings on F/G Insul. Pipe250 EA.
- 9"x9" Floor Tile - 600 S.F.
- 1'x1' Floor Tile - 22,000 S.F.
- Floor Tile Mastic - 30,000 S.F.

CHANGES IN MATERIAL CONDITION:

Three (3) damaged fittings identified in Room 403

ADDITIONAL COMMENTS/ABATEMENT PROJECTS:

None

NEWLY IDENTIFIED/SAMPLED MATERIALS:

Assumed ACM flexible connectors in the gymnasium, however inaccesible for sampling. Rooms 160, 162, 167, 227, and 159 have layered paper insulation which was previously sampled and determined to be non-asbestos containing in the SSM report. However our sample of this material (sample 001) was determined to be positive for asbestos content.

i-TEM, Ltd.

AHERA Three (3) Year Reinspection Form
AHERA Management Plan Update

FACILITY: Havre de Grace High School
ADDRESS: 700 Congress Ave. Havre de Grace, MD 21078-3089
DATE: 4/15/92

REMAINING ACM IN BUILDING:

Boiler Room (412)
Tank Insulation - 600 S.F.

Auditorium
Stage light Wire Insulation - 212 L.F.

Throughout School
Fittings On F/G Insulated Pipe - 250 EA.
9"x9" Floor Tile - 600 S.F.
1'x1' Floor Tile - 22,000 S.F.
Floor Tile Mastic - 30,000 S.F.

Rooms 162, 167, 227, 160, and 159
Fittings on Layered Paper Pipe Insulation - 75 EA. (increased from 50)
Layered Paper Pipe insulation - 150 L.F.

Gymnasium
Flexible Connectors - 12 S.F.

i-T E M, Ltd.

AHERA Three (3) Year Reinspection Form
AHERA Management Plan Update

FACILITY: Havre de Grace High School
ADDRESS: 700 Congress Ave. Havre de Grace, MD 21078-3089
DATE: 4/15/92

REMAINING ACM IN BUILDING:

Boiler Room (412) Removed 8/98
Tank Insulation - 600 S.F.

Auditorium
Stage light Wire Insulation - 212 L.F.

Throughout School
Fittings On F/G Insulated Pipe - 250 EA.
9"x9" Floor Tile - 600 S.F.
1'x1' Floor Tile - 22,000 S.F.
Floor Tile Mastic - 30,000 S.F.
Firedoors (aud. bldg at least)

Rooms 162, 167, 227, 160, and 159
Fittings on Layered Paper Pipe Insulation - 75 EA. (increased from 50)
Layered Paper Pipe insulation - 150 L.F.

Gymnasium
Flexible Connectors - 12 S.F.

2/97 - Fittings removed from girls bathroom foyer
8/98 - Tank and pipe insulation removed from gym boiler room.
6/02 - Removed 9 fittings in gym by girls locker room & bathroom

SAMPLE TRACKING SHEET

*CLIENT: Harford County Schools

Log # Range: 5850 to ____

Havre De Grace HS

*PROJECT # 92.31.01.01

RECEIVENG

*Number of Samples: 1

*Analysis Required: PLM

*Turn-Around-Time:

☒ Standard ☐ Rush ☐ Emergency ☐ On-site

Date Received: 5/15/92

Received By: AJB

LOGIN:

Log-In Date: 5/16/92

ANALYSIS:

Assigned To: AJB

Analysis Started: 5/16/92

Completion Date: 5/16/92

QUALITY CONTROL

Q.C. Analyst(s): ____

No. of Q.C. Samples: 0

Date Q.C.'ed: / /

STORAGE:

Date Stored: 5/16/92

Stored By: AJB

VERBAL RESULTS

*Contact: ____

*Phone Number: ____

Date Reported: / /

Reported By: ____

FINAL RESULTS

Data Entered (Y/N): Y

Entered By: AJB

Date Entered: 5/27/

PRINTED REPORT

Date Printed: 5/27/

Proofed BY/Date: / /

Corrections Done: / /

Reprints: / /

APPROVED BY

A J Bowman 6/11/92

Signature Date

Copied: / /

Mailed: / /

Accounting Print-out: ☐

* To be completed by Field Personnel

i-T.E.M., Ltd.
5300 Westview Drive, Suite 404
Frederick, MD 21701

AIHA # 416
ELAP # 10882

LABORATORY ANALYTICAL REPORT
BULK ASBESTOS SAMPLE

CLIENT: Harford County Public Schools

ADDRESS: Hickory Annex-Facilities, US Route #1
Bel Air, MD 21014

JOB SITE: Harve De Grace High School

PROJECT NUMBER: P92-31.01.01 DATE COLLECTED: 5/15/92

DATE RECEIVED: 5/15/92 DATE ANALYZED: 5/16/92

LOCATION: Room 167; drafting room; paper wrap; pipe insulation

FIELD SAMPLE NUMBER: HAJR-50-001 LAB NUMBER: 92-005850

PHOTO #: N/P

GROSS DESCRIPTION: Tan/Orange, Fibrous, Heterogeneous

ASBESTOS		NON-ASBESTOS FIBROUS	
TYPE (s)	PERCENT	TYPE (s)	PERCENT
1: Chrysotile	05-10	1: Cellulose	85-90
2:		2:	
3:		3:	

TOTAL PERCENT ASBESTOS: 05-10 %

NON-ASBESTOS/NON-FIBROUS	
TYPE	PERCENT
1: Binding Material	01-05

COMMENTS:

Accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP # 1003) for the analysis of asbestos bulk samples. Samples are analyzed using Polarized Light Microscopy (PLM) and Dispersion Staining Techniques (1% limit of detection). The results provided are visual estimates of composition and not actual "weight" percentages and relate only to the samples received by i-T.E.M., Ltd.

LABORATORY DIRECTOR: Jorge G. Rangel, Jr.
ASBESTOS ANALYST: Alece Bowman DATE: 5/16/92

A Bowman

Aerosol Monitoring & Analysis, Inc.

This is to certify that

LONNIE WATSON

Social Security No. 575-96-3759

has successfully completed a(n)

8 hour training course entitled

E.P.A. INSPECTOR RECERTIFICATION PROGRAM

on OCTOBER 11, 1991

Location HANOVER, MARYLAND

Certificate No. 91-1775

Expires OCTOBER 11, 1992

Training Division
1341 Ashton Road, Suite A
Hanover, MD 21076

301•684•3327
800•221•1745

Director of Training

Lonnie W. Watson

Student

Aerosol Monitoring & Analysis, Inc.

This is to certify that

PETE HEPPNER

Social Security #: 219-68-2973

has successfully completed a(n)

8 hour training course entitled

E.P.A. INSPECTOR - MANAGEMENT PLANNER RECERTIFICATION PROGRAM

Presented by Aerosol Monitoring & Analysis, Inc.

on JULY 18, 1991

Location HANOVER, MARYLAND

Expires JULY 18, 1992

Steven E. Bligard
Director of Training

General Manager

Training Division
1341 Ashton Road, Suite A
Hanover, MD 21076

Certificate # 91-1190