

Roanoke County Schools

Three Year AHERA Reinspection

Penn Forest Elementary School
Facility 026

Reinspection Date:
July 1, 2008

Baratta & Associates, Inc
PO Box 293
Vinton, Virginia 24179
540-890-4875

Michael Baratta, PE
Virginia Asbestos Inspector License: 3303-000065
Virginia Asbestos Management Planner License: 3304-000208

Baratta & Associates, Inc.

Virginia Department of Education
Energy and Facilities Service

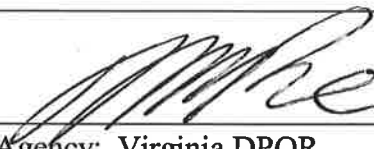
LEA Roanoke County Schools
School 026 Penn Forest Elementary School
Building Main

SCHOOL BUILDINGS

Building Name	Location	Check here for the presence of:				No ACBM
		ACBM		Suspect ACBM		
		Friable	Non- friable	Friable	Non- friable	
Penn Forest Elementary School	6328 Merriman Road Roanoke, VA				X	

Inspector:

Name: Michael Baratta Signature



Date

8-22-08

Accreditation Number: 3303 000065 Agency: Virginia DPOR

Virginia Department of Education
Energy and Facilities Services


LEA Roanoke County Schools
School: 026 Penn Forest Elementary School
Building: Main

**DETERMINATION OF EACH
SAMPLE AREA**

H-K did not test the mastic for floor tile HA-06. We subdivided this HA into its tile (06A) and mastic (06B) fraction and took two samples each. It appeared that most of the asbestos containing floor tile had been removed and replaced. We took two samples of the "newer" floor tile and mastic (HA-10A & 10B) to test this assumption.

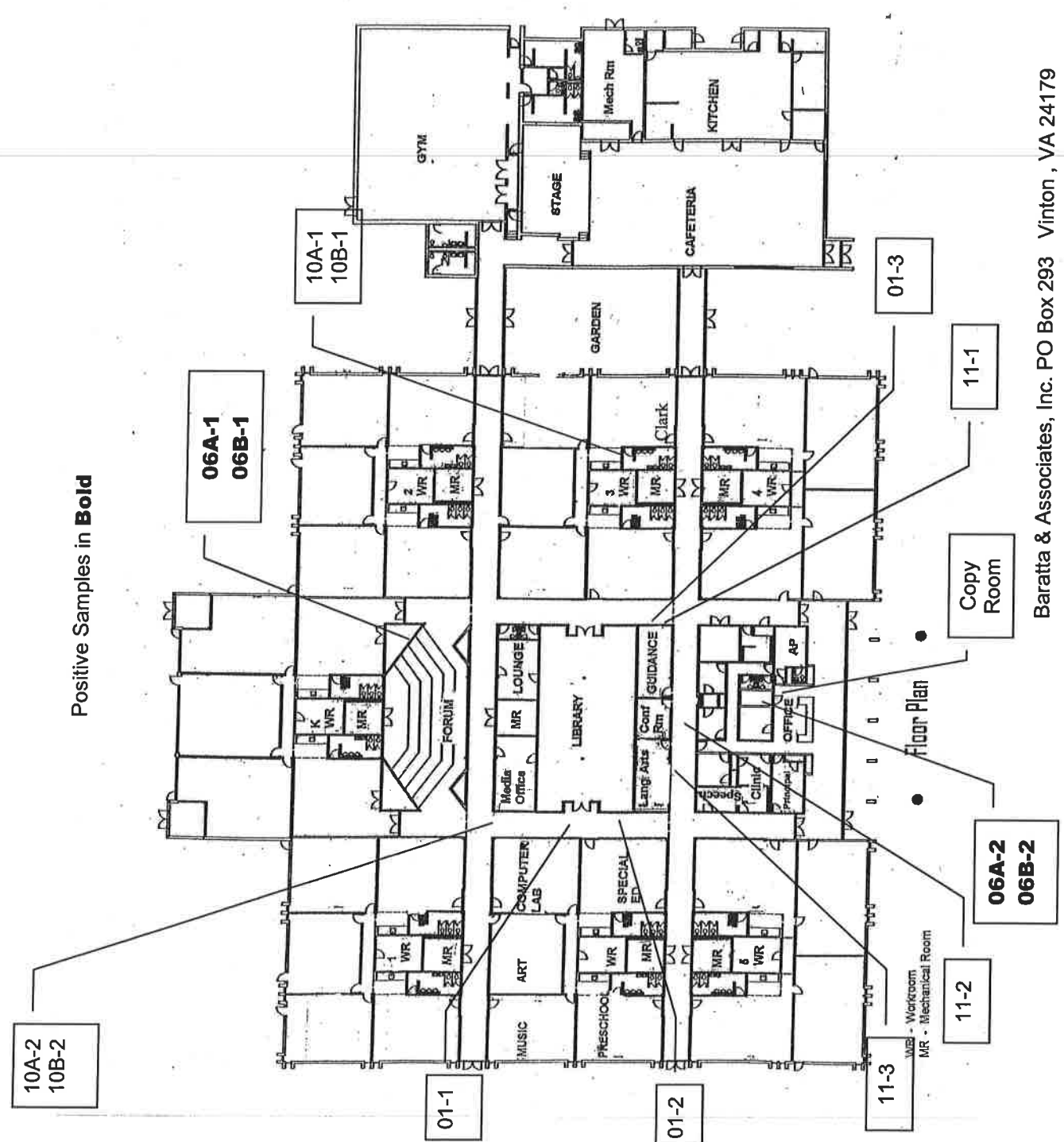
We took three samples of the gypsumboard system and plaster as well.

Homogeneous Area	Material	Sample Number	Location
01	Gypsumboard system white	01-1	Hall at NE Library door
		01-2	Hall at NW Library door
		01-3	Guidance, center of S wall
06A	Floor tile 12" x12", tan & white	06A-1	Closet in SE corner of Forum
		06A-2	Office Copy room, NW corner
06B	Black mastic for HA-06A	06B-1	Closet in SE corner of Forum
		06B-2	Office Copy Room, NW corner
10A	Floor tile 12" x12", white with tan spots	10A-1	Clark at sink
		10A-2	Hall intersection NW of Forum
10B	Black mastic for HA-10A	10B-1	Clark at sink
		10B-2	Hall intersection NW of Forum
11	Plaster, smooth white	11-1	Guidance, center of S wall
		11-2	Conference, center of W wall
		11-3	Language Arts, center of W wall

Name: Michael Baratta Signature  Date 8-22-09
Accreditation Number: 3303 000065 Agency: Virginia DPOR

AHERA Three Year Inspection
 Penn Forest Elementary School
 Roanoke County Schools
 Sample date
 Building 026
 Sample Locations
 L002
 July 1, 2008

Positive Samples in **Bold**



- HA-01 Gypsumboard system white
Samples 01-1; 01-2; 01-3
- HA-06A Floor tile 12"x12", tan & white
Samples 06A-1; 06A-2
- HA-06B Black mastic for HA-06A
Samples 06B-1; 06B-2
- HA-10A Floor tile 12"x12", white w/ tan spots
Samples 10A-1; 10A-2
- HA-10B Black mastic for HA-10A
Samples 10B -1; 10B-2
- HA-11 Plaster, smooth white
Samples 11-1; 11-2 11-3

Virginia Department of Education
Energy and Facilities Services

LEA Roanoke County Schools
School: 026 Penn Forest Elementary School
Building: Main
Sample Date: July 1, 2008
Analysis Date: July 6, 2008
Analysis Method: PLM EPA 6000/M4-82-020

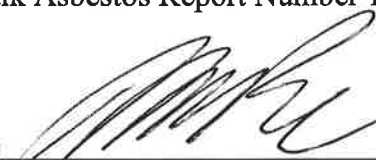
BULK SAMPLE ANALYSIS

Floor tile HA-6A and mastic HA-6B tested to be ACMs. Most of these had been replaced with non-asbestos containing floor coverings HA-10A and 10B.

Homogeneous Area	Sample Number	Material	Asbestos Content
01	01-1	Gypsumboard system, white	NAD
	01-2		NAD
	01-3		NAD
06A	06A-1	Floor tile 12" x12", tan & white	2 % chrysotile
	06A-2		2 % chrysotile
06B	06B-1	Black mastic for HA-06A	4 % chrysotile
	06B-2		4 % chrysotile
10A	10A-1	Floor tile 12" x12", white with tan spots	NAD
	10A-2		NAD
10B	10B-1	Black mastic for HA-10A	NAD
	10B-2		NAD
11	11-1	Plaster, smooth white	NAD
	11-2		NAD
	11-3		NAD

NAD – no asbestos detected

See attached AmeriSci PLM Bulk Asbestos Report Number 10807181

Name: Michael Baratta Signature  Date 8-22-08
Accreditation Number: 3303 000065 Agency: Virginia DPOR



AmeriSci Richmond

13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800

PLM Bulk Asbestos Report

Baratta & Associates, Inc.
Attn: Michael Baratta
1150 Shady Run Road

Vinton, VA 24179

Date Received 07/02/08 AmeriSci Job # 108071081
Date Examined 07/06/08 P.O. #
Page 1 of 3
RE: L001; AHERA; Penn Forest Els

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
01-1 Location: Gypsum Board System	108071081-01	No	NAD (by CVES) by C. David Mintz on 07/06/08
Analyst Description: Off White, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 2 %, Fibrous glass Trace, Non-fibrous 98 %			
01-2 Location: Gypsum Board System	108071081-02	No	NAD (by CVES) by C. David Mintz on 07/06/08
Analyst Description: Off White, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 2 %, Fibrous glass Trace, Non-fibrous 98 %			
01-3 Location: Gypsum Board System	108071081-03	No	NAD (by CVES) by C. David Mintz on 07/06/08
Analyst Description: Off White, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 2 %, Fibrous glass Trace, Non-fibrous 98 %			
06A-1 Location: Floor Tile	108071081-04	Yes	2 % (by CVES) by C. David Mintz on 07/06/08
Analyst Description: Tan-Brown-White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Chrysotile 2.0 % Other Material: Non-fibrous 98 %			
06A-2 Location: Floor Tile	108071081-05	Yes	2 % (by CVES) by C. David Mintz on 07/06/08
Analyst Description: Tan-Brown-White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Chrysotile 2.0 % Other Material: Non-fibrous 98 %			

See Reporting notes on last page

Client Name: Baratta & Associates, Inc.

PLM Bulk Asbestos Report

L001; AHERA; Penn Forest Els

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
06B-1 Location: Floor Tile Mastic	108071081-06	Yes	4 % (by CVES) by C. David Mintz on 07/06/08
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile 4.0 %			
Other Material: Non-fibrous 96 %			
06B-2 Location: Floor Tile Mastic	108071081-07	Yes	4 % (by CVES) by C. David Mintz on 07/06/08
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile 4.0 %			
Other Material: Non-fibrous 96 %			
10A-1 Location: Floor Tile	108071081-08	No	NAD (by CVES) by C. David Mintz on 07/06/08
Analyst Description: Off White w/ Tan, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
10A-2 Location: Floor Tile	108071081-09	No	NAD (by CVES) by C. David Mintz on 07/06/08
Analyst Description: Off White w/ Tan, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
10B-1 Location: Floor Tile Mastic	108071081-10	No	NAD (by CVES) by C. David Mintz on 07/06/08
Analyst Description: Cream, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
10B-2 Location: Floor Tile Mastic	108071081-11	No	NAD (by CVES) by C. David Mintz on 07/06/08
Analyst Description: Cream, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100 %			

See Reporting notes on last page

Client Name: Baratta & Associates, Inc.

PLM Bulk Asbestos Report

L001; AHERA; Penn Forest Els

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
11-1 Location: Plaster	108071081-12	No	NAD ¹ (by CVES) by C. David Mintz on 07/06/08
Analyst Description: White & Tan, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
11-2 Location: Plaster	108071081-13	No	NAD ¹ (by CVES) by C. David Mintz on 07/06/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
11-3 Location: Plaster	108071081-14	No	NAD ¹ (by CVES) by C. David Mintz on 07/06/08
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			

Reporting Notes:

(1) Sample homogenized by grinding to a powder prior to analysis.

Analyzed by: C. David Mintz *C. David Mintz* Date 7/6/08

*NAD = no asbestos detected, Detection Limit < 1%, Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 101904-0) and ELAP PLM Analysis Protocol 198.1 for New York friable samples (198.6 for NOB samples)(NYSDOH ELAP Lab # 10984); CA ELAP Lab # 2508; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.

Reviewed By:

Baratta & Associates, Inc.P.O. Box 293
Vinton, VirginiaLEA Roanoke County Schools
School 026 Penn Forest Elementary School
Building Main**REASSESSMENT OF MATERIALS**Past or Initial Assessment: Hall-Kimbrell April 1989

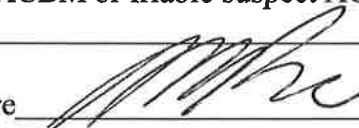
Most of the asbestos containing floor tile and mastic (HA-6A & 6B) had been replaced with non-asbestos containing floor coverings (HA-10A & 1B)

Homogeneous Area	Description	Past Assessment Category #	Reassessment Category #
01	Gypsumboard system	Non-not evaluated	Non-ACM
02	Chilled Water fitting TSI	Non-ACM	-
03	Domestic HW fitting TSI	Non-ACM	-
04	Domestic CW fitting TSI	Non-ACM	-
05	Ceiling Material	Non-ACM	-
06A	Floor tile 12" x12", tan & white	5	5
06B	Black mastic for HA-6A	Non-not evaluated	5
07	Chilled Water fitting TSI - boiler room	Non-ACM	-
08	Domestic HW fitting TSI - boiler room	Non-ACM	-
09	Domestic CW fitting TSI - boiler room	Non-ACM	-
10A	Floor tile 12" x12" white with tan spots	Non-not evaluated	Non-ACM
10B	Tan mastic for HA-10A	Non-not evaluated	Non-ACM
11	Plaster	Non-not evaluated	Non-ACM

AHERA - Physical Assessment Categories - 763.88(a)(2)(b)

- 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 suspect ACBM

Inspector:

Name: Michael BarattaSignature 

Date

8-22-09Accreditation Number: 3303 000065 Agency: Virginia DPOR

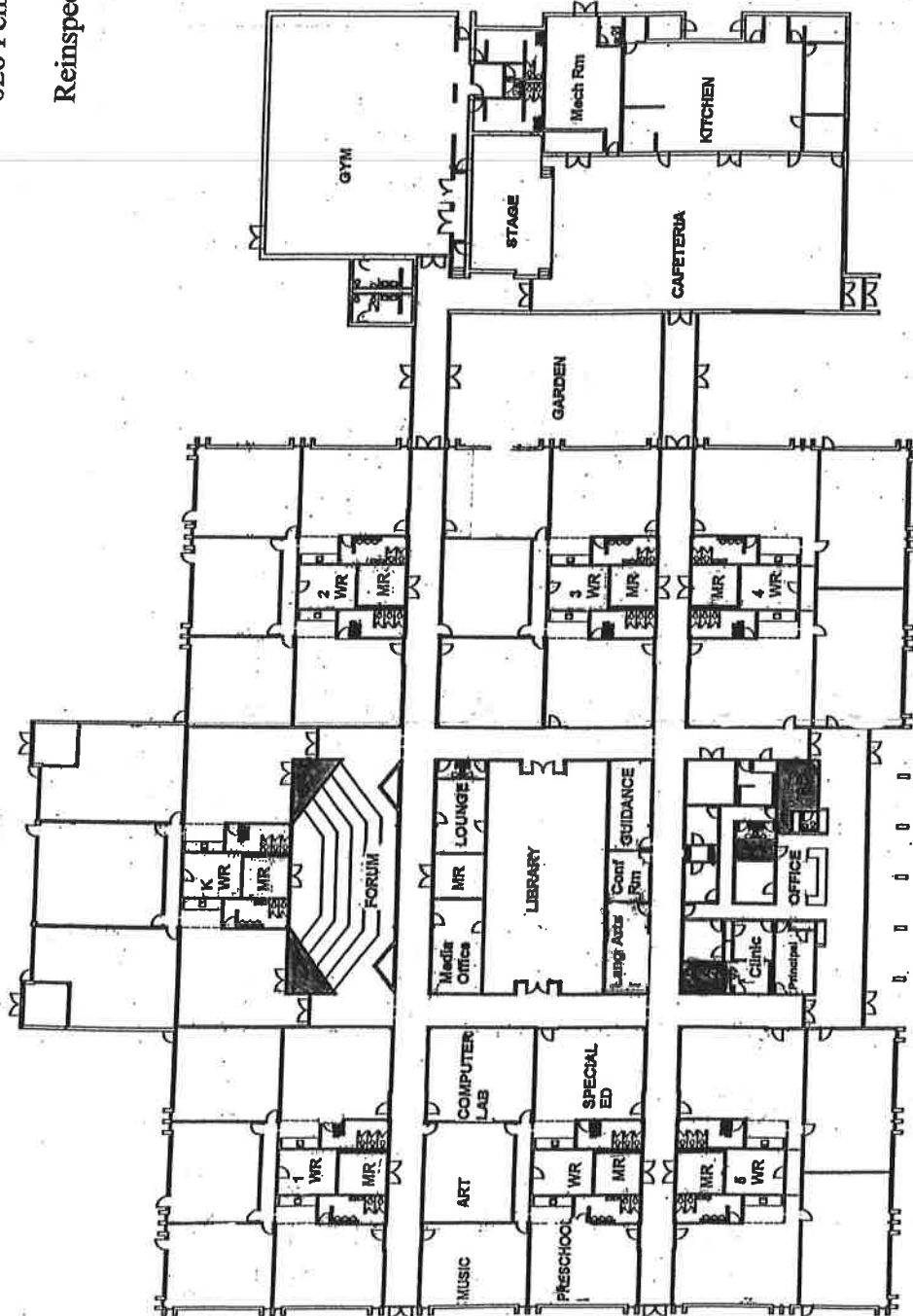


LOCATION OF ACBMs

026 Penn Forest Elementary School

Reinspection Date: July 1, 2008

Scale: none



Floor Plan

WR - Workroom
MR - Mechanical Room

Asbestos containing floor tiles and mastics	
---	--

Virginia Department of Education
Energy and Facilities Service

LEA Roanoke County Schools
School 026 Penn Forest Elementary School
Building: Main

**RESPONSE ACTIONS
RECOMMENDED**

Total cost to remove \$ 12,000

Each Location	Recommended Response Actions	Scheduled To Begin	Scheduled To Be Completed	Est. Cost To Remove
Floor tile and mastic (HA-06A & 06B) in closets, Speech and Office Areas	Place in O & M plan until other needs require the floor tile be removed	none	none	\$12,000

Management Planner:
Name: Michael Baratta Signature  Date 8-22-08
Accreditation Number: 3304 000208 Agency: Virginia DPOR

ASBESTOS MANAGEMENT, OPERATIONS AND MAINTENANCE PLAN

Penn Forest Elementary School
August 22, 2008

This Asbestos Management Operations and Maintenance Plan is based on the three (3) year AHERA Reinspection performed by Baratta & Associates, Inc on July 1, 2008. It covers procedures to be followed in dealing with the Asbestos-Containing Materials (ACMs) found in the Penn Forest Elementary School.

SUMMARY

The 12"x12", tan & white floor tiles (and associated black mastic) used in some of the rooms tested to be Asbestos Containing Materials. These floor coverings are in good condition. They do not currently present an asbestos related health risk to building occupants in their current condition.

STAFF NOTIFICATION

The School should send all staff members a brief notice stating that Asbestos-Containing Materials exist in certain portions of the Penn Forest Elementary School Building.

ACM IDENTIFICATION

The following products were found to be Asbestos-Containing Materials (ACMs):

HA Number	Material
06A	Floor tile 12" x12", tan & white
06B	Black mastic for HA-06A

CARE OF THE FLOOR TILES

Most of the asbestos containing floor tiles had been replaced. A few islands of the older floor coverings remain in the building. These are found in the following areas:

AP Room
Both closets east of the Forum
Speech Room, the Office Copy Room
A portion of the space east of the Copy Room.

No drilling, sanding, or other abrasive or penetrating activities shall be used on the asbestos containing floor tiles. To do so may release asbestos fibers into the environment.

The flooring is tough and non-friable. It is doubtful anything other than forceful vandalism will deteriorate this material to a point where significant fiber release will occur.

If you notice these tiles are damaged, please report it to the principal so appropriate actions can be taken.

PERMIT REQUIREMENTS

Before any work that may require the disturbance of these Asbestos Containing Materials is performed, maintenance personnel or contractors shall obtain an Asbestos Work Area Permit from the School System's Asbestos Program Manager.