

# Roanoke County Schools

## Three Year AHERA Reinspection

Fort Lewis Elementary School  
Facility 016

---

Reinspection Date:

April 29, 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

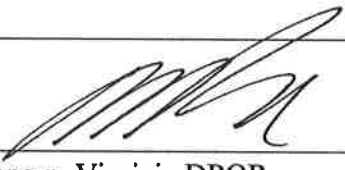
LEA Roanoke County Schools  
School Fort Lewis Elementary School  
Building Main

**SCHOOL BUILDINGS**

Building Name	Location	Check here for the presence of:				No ACBM
		ACBM		Suspect ACBM		
		Friable	Non- friable	Friable	Non- friable	
Fort Lewis Elementary School (016)	3115 West Main Street Salem, VA 24153					
001	Main Building	1	X			
002	Trailer -- not on site					X

1. All exposed TSI-ACM has been removed from the facility. Asbestos containing TSI may still exist within the walls, ceilings and other concealed spaces.

Inspector:

Name: Michael Baratta Signature 

Date 6/6/06

Accreditation Number: 3303 000065 Agency: Virginia DPOR


Virginia Department of Education  
Energy and Facilities Services

LEA Roanoke County Schools  
School: Fort Lewis Elementary School  
Building: Main

**DETERMINATION OF EACH  
SAMPLE AREA**

We designated the wall finish HA-01 and obtained nine (9) samples. We did not use a random number sample procedure but distributed the samples across the facility. We subdivided floor tile HA-05 into its tile (05A) and mastic (05B) components and obtained two (2) samples each. A second floor tile was noted in the basement. We took two (2) samples of this tile (HA-08) and its mastic (HA-09).

Homogeneous Area	Material	Sample Number	Location
01	Wall finish, white	01-1	102, NE corner
		01-2	104, NW corner
		01-3	110, SE corner
		01-4	115, SW corner
		01-5	107, NW corner
		01-6	105, SE corner
		01-7	103, SE corner
		01-8	101, SE corner
		01-9	Basement Room R, center of W wall
05A	Floor tile 12" x12", light brown with white	05-A1	Room E, NW corner
		05-A2	Room E, SE corner
05B	Black mastic for HA-05A	05-B1	Room E, NW corner
		05-B2	Room E, SE corner
08	Floor tile 12" x12", white with pink and blue spots	08-1	Room R at PTA Room
		08-2	Room R, SE corner
09	Black mastic for HA-08	09-1	Room R at PTA Room
		09-2	Room R, SE corner

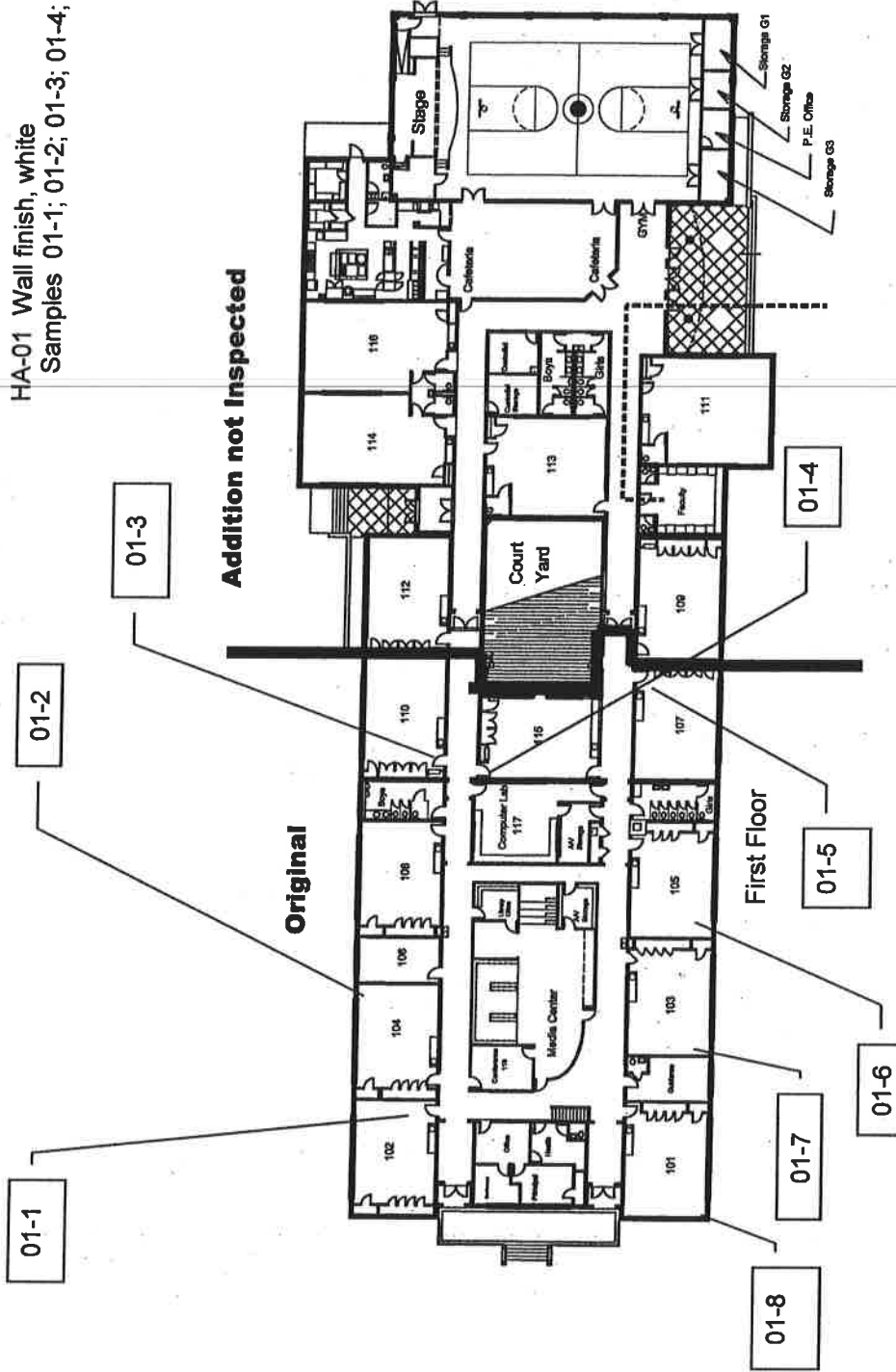
Name: Michael Baratta Signature  Date 6/6/09  
Accreditation Number: 3303 000065 Agency: Virginia DPOR

Building 016  
Sample Location  
L001  
April 22, 2008

ACHERA Three Year Inspection  
Fort Lewis Elementary School  
Roanoke County Schools  
Sample date;



HA-01 Wall finish, white  
Samples 01-1; 01-2; 01-3; 01-4; 01-5; 01-6; 01-7, 01-8,



AHERA Three Year Inspection  
Fort Lewis Elementary School  
Roanoke County Schools  
Sample date:

Building 016  
Sample Location  
L001  
April 22, 2008



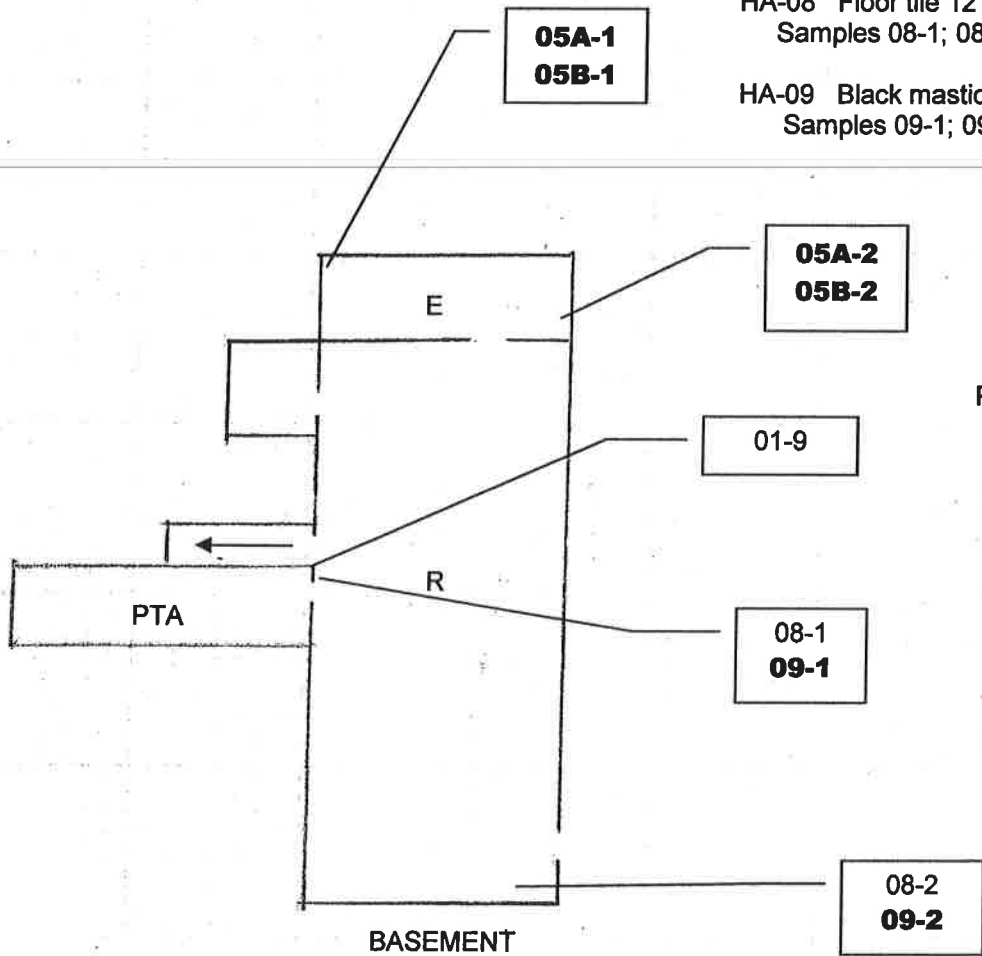
HA-01 Wall finish, white  
Sample 01-9

HA-05A Floor tile 12" x 12", light brown with white  
Samples 05-A1; 05-A2

HA-05B Black mastic for HA-05A  
Samples 05-B1; 05-B2

HA-08 Floor tile 12" x 12", white with pink and blue pots  
Samples 08-1; 08-2

HA-09 Black mastic for HA-08  
Samples 09-1; 09-2



Positive samples in **bold**

Virginia Department of Education  
Energy and Facilities Services

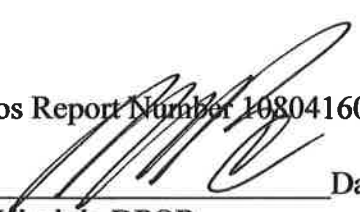
LEA Roanoke County Schools  
School: Fort Lewis Elementary School  
Building: Main  
Sample Date: April 22, 2008  
Analysis Date: April 24, 2008  
Analysis Method: PLM EPA 6000/M4-82-020

**BULK SAMPLE ANALYSIS**

Homogeneous Area	Sample Number	Material	Asbestos Content
01	01-1	Wall finish, white	NAD
	01-2		NAD
	01-3		NAD
	01-4		NAD
	01-5		NAD
	01-6		NAD
	01-7		NAD
	01-8		NAD
	01-9		NAD
05A	05-A1	Floor tile 12" x12", light brown with white	3 % chrysotile
	05-A2		3 % chrysotile
05B	05-B1	Black mastic for HA-05A	5 % chrysotile
	05-B2		5% chrysotile
08	08-1	Floor tile 12" x12", white with pink and blue spots	NAD
	08-2		NAD
09	09-1	Black mastic for HA-08	3 % chrysotile
	09-2		3 % chrysotile

NAD – no asbestos detected

See attached AmeriSci PLM Bulk Asbestos Report Number 108041607

Name: Michael Baratta Signature  Date 6/6/08  
Accreditation Number: 3303 000065 Agency: Virginia DPOR



**AmeriSci Richmond**

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

April 24, 2008

Baratta & Associates, Inc.  
Attn: Michael Baratta  
1150 Shady Run Road  
Vinton, VA 24179

RE: Baratta & Associates, Inc.  
Job Number 108041607  
P.O. #L001  
L001; AHERA; Fort Lewis ELS

Dear Michael Baratta:

Enclosed are the results for PLM asbestos analysis of the following Baratta & Associates, Inc. samples received at AmeriSci on Thursday, April 24, 2008, for a 3 day turnaround:

01-1, 01-2, 01-3, 01-4, 01-5, 01-6, 01-7, 01-8, 01-9, 05-A1, 05-A2, 05-B1, 05-B2, 08-1, 08-2, 09-1, 09-2

The 17 samples contained in zip lock bag were shipped to AmeriSci via Fed Ex 8621 8375 0530 B. These samples were prepared and analyzed according to the EPA Interim Method (EPA 600/M4-82-020 per 40 CFR 763, subpt F, App. A). The required analytical information, analysis results, analyst signature and laboratory identification is contained in the Analyst's Report.

This report relates ONLY to the sample analysis expressed as percent asbestos. AmeriSci assumes no responsibility for customer supplied data such as "sample type", "location", or "area sampled". This report must not be used to claim product endorsement by AmeriSci, NVLAP or any agency of the U. S. Government. The National Institute of Standards and Technology Accreditation requirements, mandates that this report must not be reproduced, except in full without the written approval of the laboratory. This report may contain specific data not covered by NVLAP or ELAP accreditations respectively, if so identified in relevant footnotes.

AmeriSci appreciates this opportunity to serve your organization. Please contact us for any further assistance or with any questions.

Sincerely,

A handwritten signature in black ink that reads "T. Brian Keith". The signature is written in a cursive, flowing style.

T. Brian Keith  
Asbestos Laboratory Director



## PLM Bulk Asbestos Report

Baratta & Associates, Inc.  
Attn: Michael Baratta  
1150 Shady Run Road  
  
Vinton, VA 24179

**Date Received** 04/24/08      **AmeriSci Job #** 108041607  
**Date Examined** 04/24/08      **P.O. #**  
**Page** 1 of 4  
**RE:** L001; AHERA; Fort Lewis ELS

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
01-1 Location: Wall Finish	108041607-01	No	NAD (by CVES) by Gordon T. Saleeby on 04/24/08
<b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Bulk Material <b>Asbestos Types:</b> <b>Other Material:</b> Cellulose 2 %, Non-fibrous 98 %			
01-2 Location: Wall Finish	108041607-02	No	NAD (by CVES) by Gordon T. Saleeby on 04/24/08
<b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Bulk Material <b>Asbestos Types:</b> <b>Other Material:</b> Cellulose 2 %, Non-fibrous 98 %			
01-3 Location: Wall Finish	108041607-03	No	NAD (by CVES) by Gordon T. Saleeby on 04/24/08
<b>Analyst Description:</b> Off White, Heterogeneous, Non-Fibrous, Bulk Material <b>Asbestos Types:</b> <b>Other Material:</b> Cellulose 2 %, Non-fibrous 98 %			
01-4 Location: Wall Finish	108041607-04	No	NAD (by CVES) by Gordon T. Saleeby on 04/24/08
<b>Analyst Description:</b> Off White, Heterogeneous, Non-Fibrous, Bulk Material <b>Asbestos Types:</b> <b>Other Material:</b> Cellulose 2 %, Non-fibrous 98 %			
01-5 Location: Wall Finish	108041607-05	No	NAD (by CVES) by Gordon T. Saleeby on 04/24/08
<b>Analyst Description:</b> Off White, Heterogeneous, Non-Fibrous, Bulk Material <b>Asbestos Types:</b> <b>Other Material:</b> Cellulose 2 %, Non-fibrous 98 %			



Client Name: Baratta &amp; Associates, Inc.

**PLM Bulk Asbestos Report**

L001; AHERA; Fort Lewis ELS

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
01-6 Location: Wall Finish	108041607-06	No	NAD (by CVES) by Gordon T. Saleeby on 04/24/08
<b>Analyst Description:</b> Off-White/Brown, Heterogeneous, Non-Fibrous, Bulk Material			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Cellulose 2 %, Non-fibrous 98 %			
01-7 Location: Wall Finish	108041607-07	No	NAD (by CVES) by Gordon T. Saleeby on 04/24/08
<b>Analyst Description:</b> Off White, Heterogeneous, Non-Fibrous, Bulk Material			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Cellulose 2 %, Non-fibrous 98 %			
01-8 Location: Wall Finish	108041607-08	No	NAD (by CVES) by Gordon T. Saleeby on 04/24/08
<b>Analyst Description:</b> Off White, Heterogeneous, Non-Fibrous, Bulk Material			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Cellulose 2 %, Non-fibrous 98 %			
01-9 Location: Wall Finish	108041607-09	No	NAD (by CVES) by Gordon T. Saleeby on 04/24/08
<b>Analyst Description:</b> Tan, Heterogeneous, Non-Fibrous, Bulk Material			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
05-A1 Location: Floor Tile	108041607-10	Yes	3 % (by CVES) by Gordon T. Saleeby on 04/24/08
<b>Analyst Description:</b> Beige/Tan, Heterogeneous, Non-Fibrous, Bulk Material			
<b>Asbestos Types:</b> Chrysotile 3.0 %			
<b>Other Material:</b> Non-fibrous 97 %			
05-A2 Location: Floor Tile	108041607-11	Yes	3 % (by CVES) by Gordon T. Saleeby on 04/24/08
<b>Analyst Description:</b> Beige/Tan, Heterogeneous, Non-Fibrous, Bulk Material			
<b>Asbestos Types:</b> Chrysotile 3.0 %			
<b>Other Material:</b> Non-fibrous 97 %			

Client Name: Baratta &amp; Associates, Inc.

**PLM Bulk Asbestos Report**

L001; AHERA; Fort Lewis ELS

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
05-B1 Location: Floor Tile Mastic	108041607-12	Yes	5 % (by CVES) by Gordon T. Saleeby on 04/24/08
<b>Analyst Description:</b> Black, Heterogeneous, Non-Fibrous, Bulk Material			
<b>Asbestos Types:</b> Chrysotile 5.0 %			
<b>Other Material:</b> Non-fibrous 95 %			
05-B2 Location: Floor Tile Mastic	108041607-13	Yes	5 % (by CVES) by Gordon T. Saleeby on 04/24/08
<b>Analyst Description:</b> Black/Yellow, Heterogeneous, Non-Fibrous, Bulk Material			
<b>Asbestos Types:</b> Chrysotile 5.0 %			
<b>Other Material:</b> Non-fibrous 95 %			
08-1 Location: Floor Tile	108041607-14	No	NAD (by CVES) by Gordon T. Saleeby on 04/24/08
<b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Bulk Material			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
08-2 Location: Floor Tile	108041607-15	No	NAD (by CVES) by Gordon T. Saleeby on 04/24/08
<b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Bulk Material			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
09-1 Location: Floor Tile Mastic	108041607-16	Yes	3 % (by CVES) by Gordon T. Saleeby on 04/24/08
<b>Analyst Description:</b> Black/Yellow, Heterogeneous, Non-Fibrous, Bulk Material			
<b>Asbestos Types:</b> Chrysotile 3.0 %			
<b>Other Material:</b> Non-fibrous 97 %			
09-2 Location: Floor Tile Mastic	108041607-17	Yes	3 % (by CVES) by Gordon T. Saleeby on 04/24/08
<b>Analyst Description:</b> Black/Yellow, Heterogeneous, Non-Fibrous, Bulk Material			
<b>Asbestos Types:</b> Chrysotile 3.0 %			
<b>Other Material:</b> Non-fibrous 97 %			

Client Name: Baratta & Associates, Inc.

# PLM Bulk Asbestos Report

L001; AHERA; Fort Lewis ELS

**Reporting Notes:**

Analyzed by: Gordon T. Saleeby *Gordon T. Saleeby* Date *APR 24, 2008*  
\*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: *SL*

**Baratta & Associates, Inc.**  
P.O. Box 293  
Vinton, Virginia

LEA Roanoke County Schools  
School 016 Fort Lewis Elementary School  
Building 001 Main Building

### REASSESSMENT OF MATERIALS

Past or Initial Assessment: Hall-Kimbrell April 1989

The TSI in the Boiler Room and Crawl Space had been removed

Homogeneous Area	Description	Past Assessment Category #	Reassessment Category #
01	Wall finish, white	Not evaluated	Non-ACM
02	LP Steam fitting TSI	1	Removed
03	LP Steam pipe TSI	1	Removed
04	LIC	Non-ACM	-
05A	Floor tile 12" x12", light brown with white	5	5
05B	Black mastic for HA-05A	5	5
06	Boiler Room fitting TSI	1	Removed 1997
07	Boiler Room pipe TSI	1	Removed 1997
08	Floor tile 12" x12", white with pink and blue spots	Not evaluated	Non-ACM
09	Black mastic for HA-08	Not evaluated	5

#### 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 Baratta Signature 

Date 6/6/00

Accreditation Number: 3303 000065 Agency: Virginia DPOR



LOCATION OF ACBMs

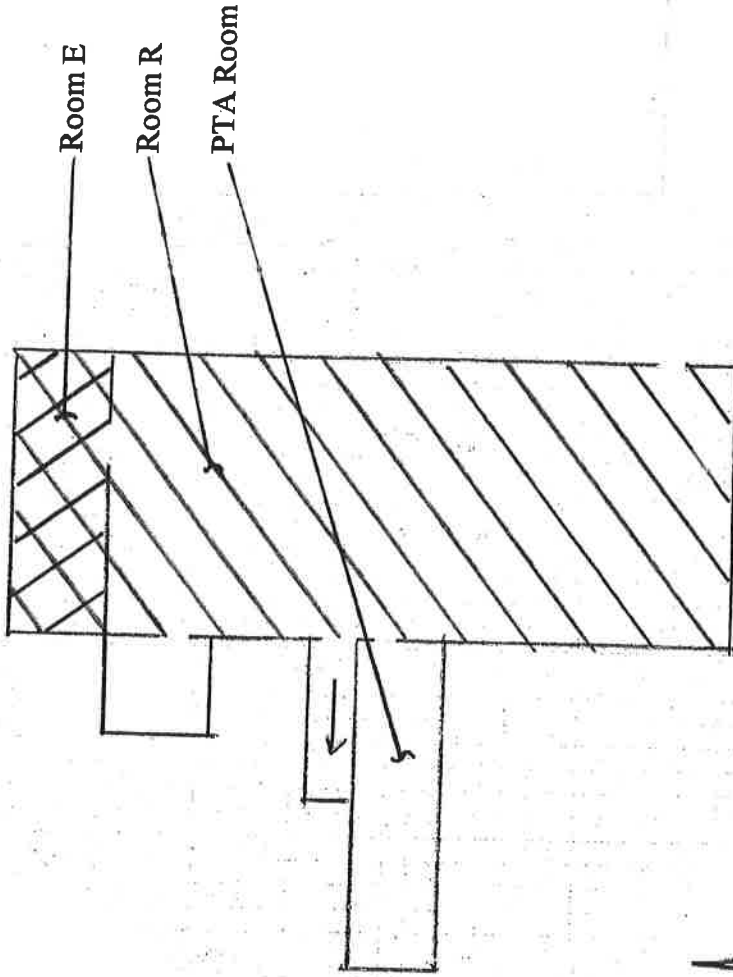
016


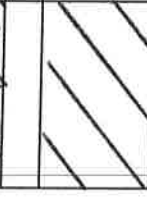
Fort Lewis Elementary School

Basement

Scale: 1"=16'

Reinspection Date: April 22, 2008



	Asbestos containing floor tiles and mastics
	Asbestos containing floor tile mastic

No ACMs noted on the First Floor

Basement

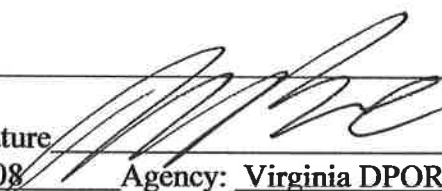
Virginia Department of Education  
Energy and Facilities Service

LEA Roanoke County Schools  
School Fort Lewis Elementary School  
Building: Main

**RESPONSE ACTIONS  
RECOMMENDED**

Total cost to remove \$9,000

Each Location	Recommended Response Actions	Scheduled To Begin	Scheduled To Be Completed	Est. Cost To Remove
Floor tile 12" x12", light brown with white and associated black mastic in Basement Room E	Maintain floor coverings until other needs require these floor coverings to be removed	none	none	3,000
Black mastic for 12" x12", white, pink and blue spotted floor tiles in Basement Room R	Maintain floor coverings until other needs require these floor coverings to be removed	none	none	\$6,000

Management Planner:  
Name: Michael Baratta Signature  Date 6/6/08  
Accreditation Number: 3304 000208 Agency: Virginia DPOR

# ASBESTOS MANAGEMENT, OPERATIONS AND MAINTENANCE PLAN

Fort Lewis Elementary School  
May 24, 2008

This Asbestos Management Operations and Maintenance Plan is based on the three year AHERA Reinspection performed by Baratta & Associates, Inc on April 22, 2008. It covers procedures to be followed in dealing with the Asbestos-Containing Materials (ACMs) found in the Fort Lewis Elementary School.

## SUMMARY

Most of the floor tiles and associated mastic used in Basement Rooms R and E 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 Basement of Fort Lewis Elementary School.

## ACM IDENTIFICATION

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

HA Number	Material
05A	Floor tile 12" x12", light brown with white (Room E)
05B	Black mastic for HA-05A (Room E)
09	Black mastic for 12" x12", white, pink and blue spotted floor tile HA-08 (Room R)

## CARE OF THE FLOOR TILES AND MASICS

The floor tiles and mastic used in Basement Room E (Electric Room) tested to be asbestos containing materials. 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.

### **CARE OF THE FLOOR MASICS**

A newer, non-asbestos containing, floor tile had been installed in Basement Room R. The old mastic under these tiles is an ACM. Since the mastic is covered with a durable non-asbestos containing product the likelihood of the mastic becoming an asbestos related health hazard is remote.

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

---

As stated above, the floor tiles are tough. Again, it is doubtful anything other than forceful vandalism will deteriorate this material to a point where significant fiber release will occur.

### **PERMIT REQUIREMENTS**

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